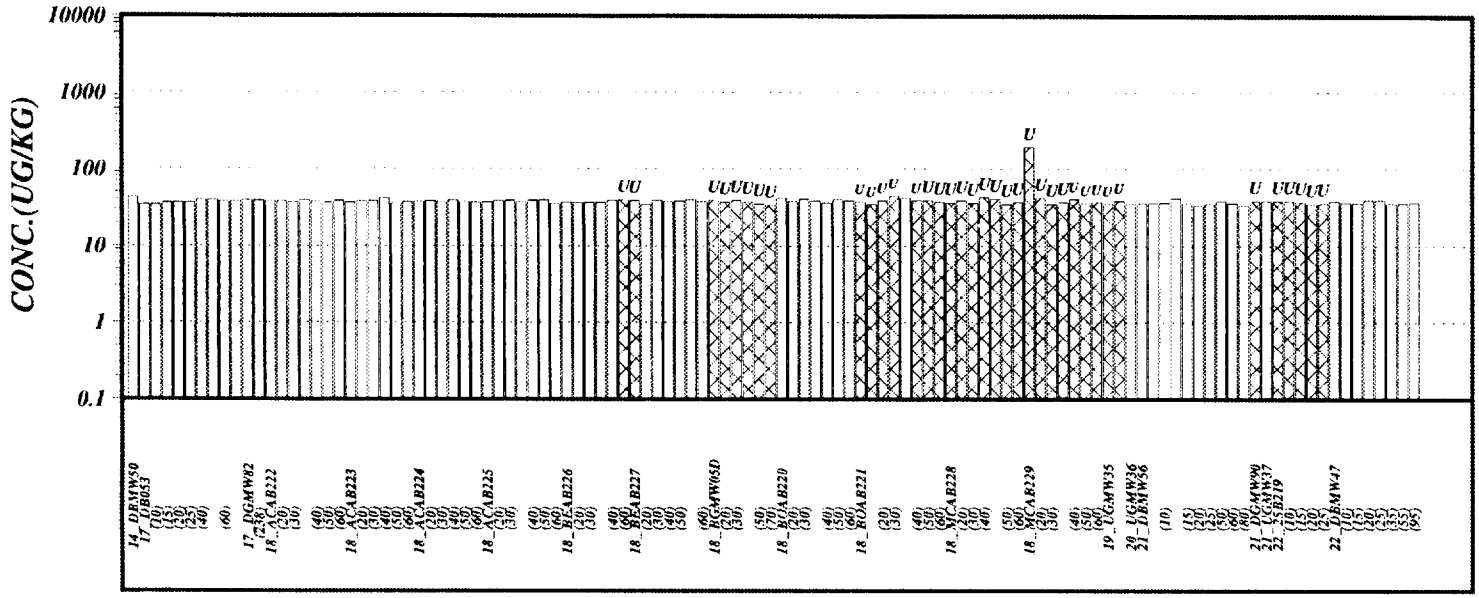
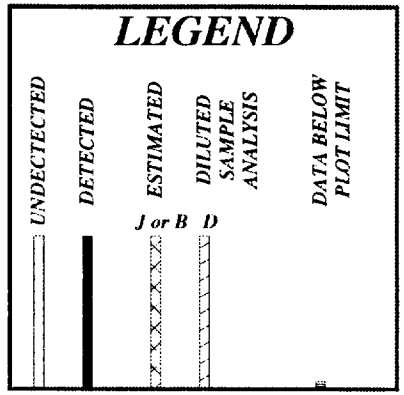
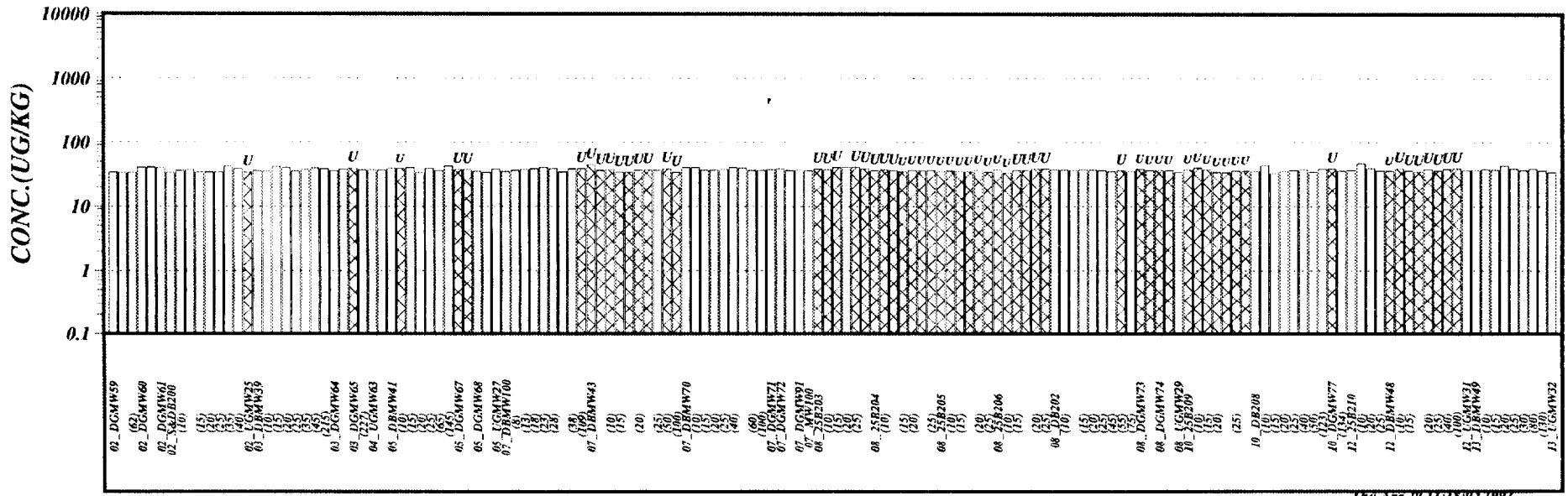
# MCAS EL TORO Phase 1 RI Technical Memorandum

## PCB-1016 Concentration in Soil Boring (07/09/92-08/12/95)

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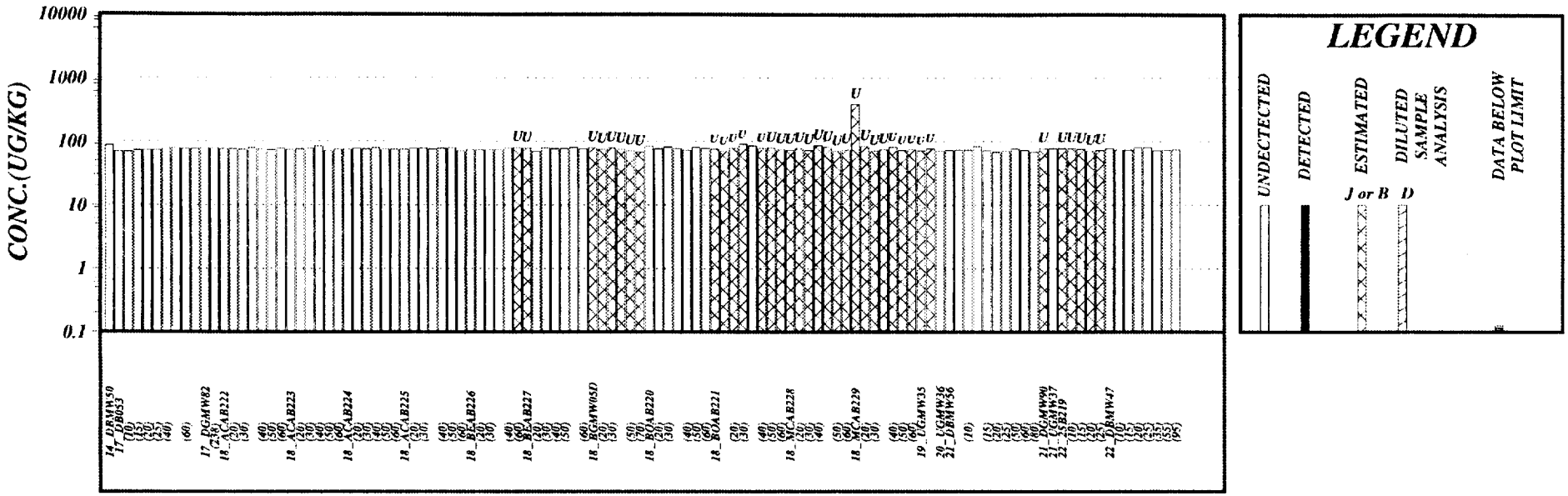
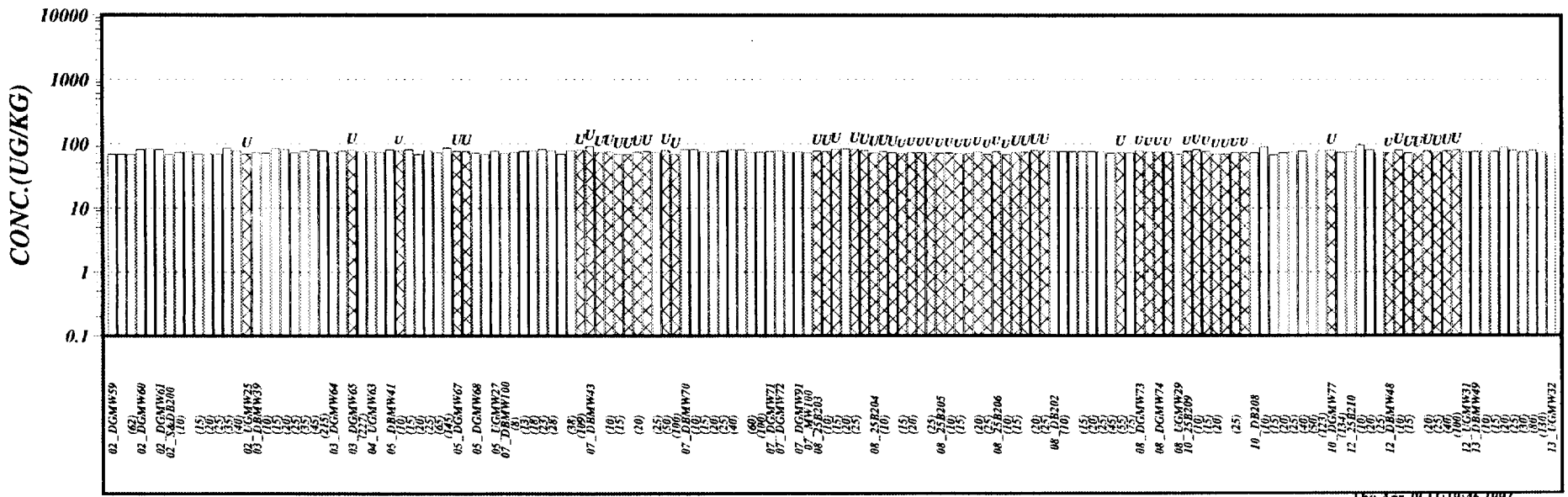
# MCAS EL TORO Phase 1 RI Technical Memorandum

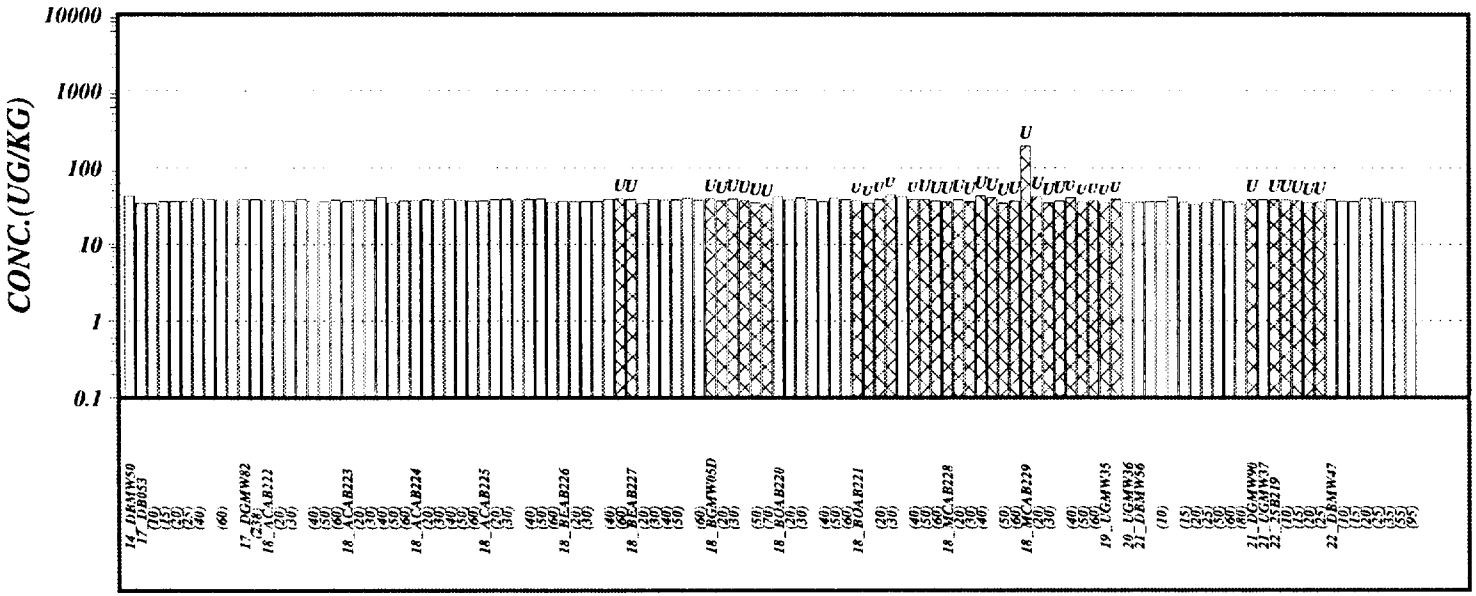
## PCB-1221 Concentration in Soil Boring (07/09/92-08/12/95)

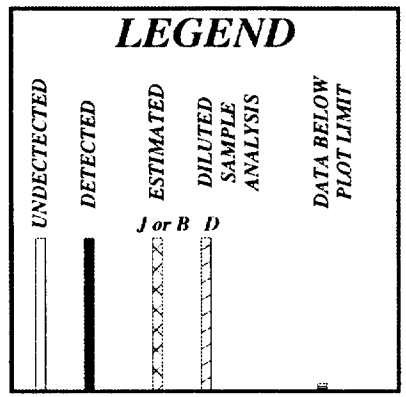


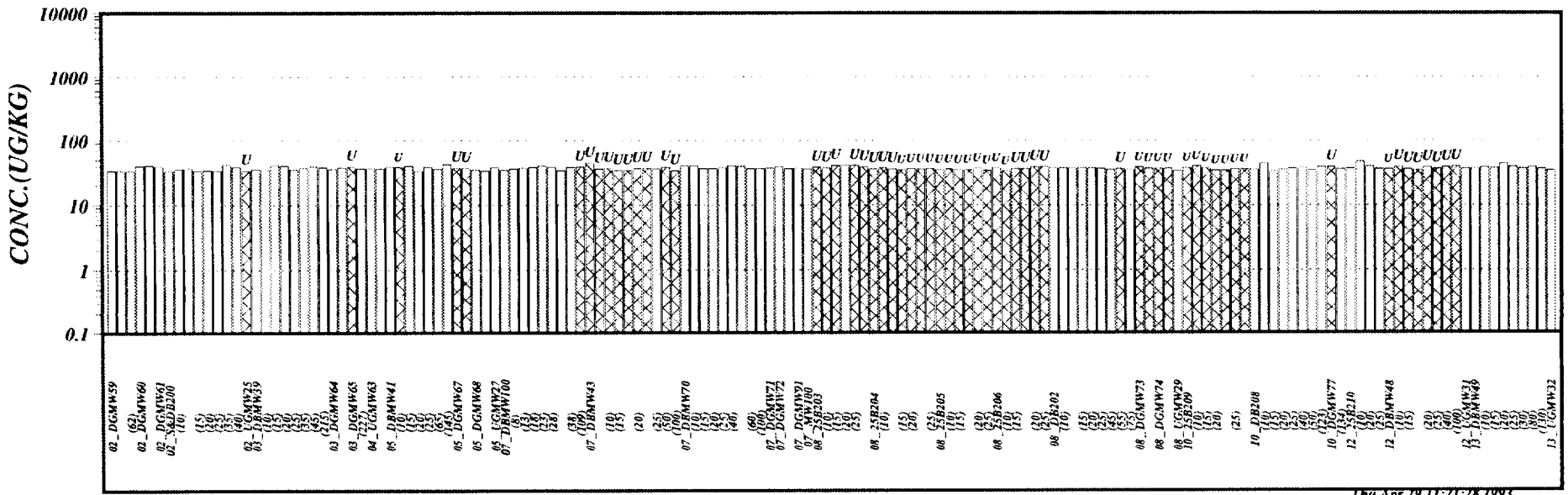



# MCAS EL TORO Phase 1 RI Technical Memorandum

## PCB-1232 Concentration in Soil Boring (07/09/92-08/12/95)

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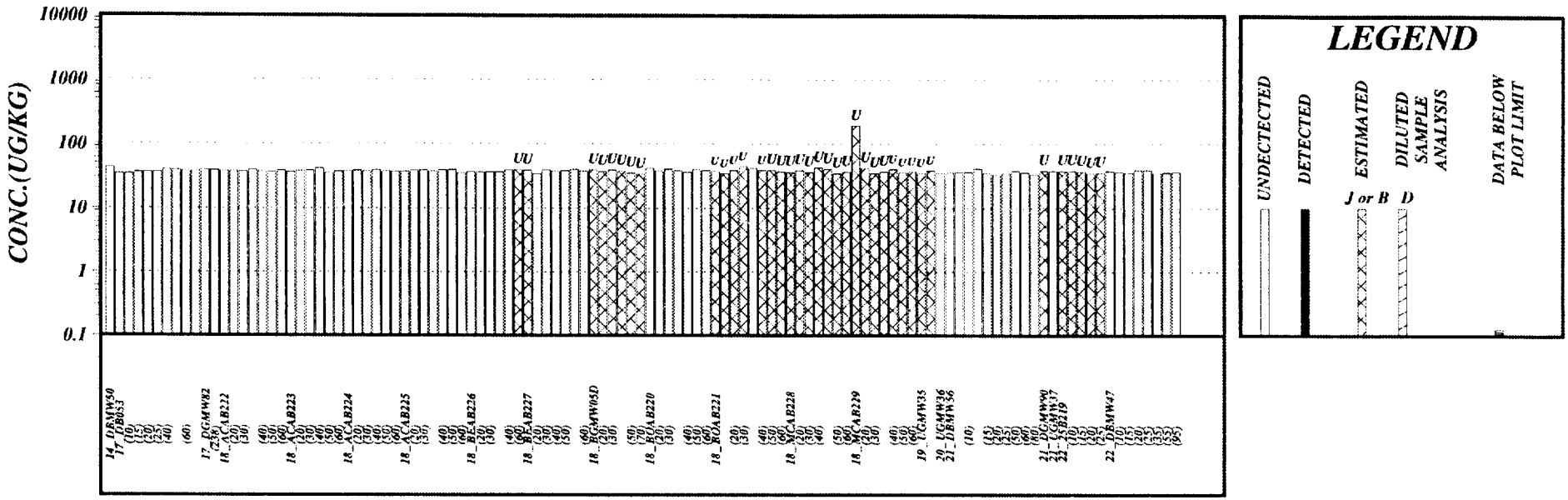
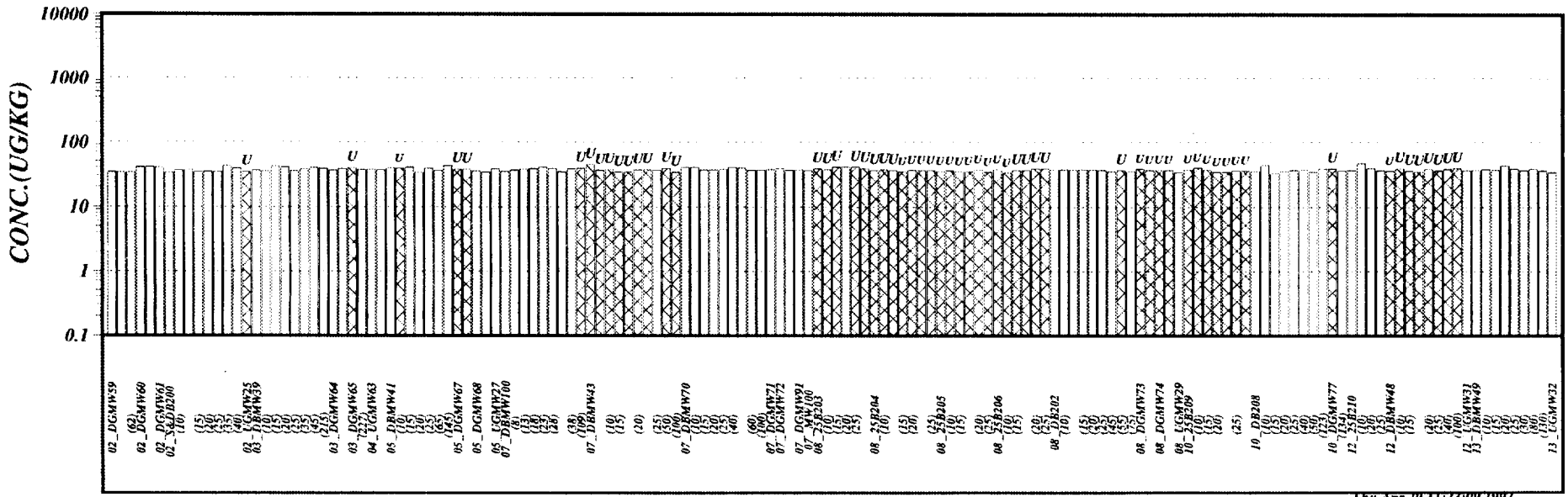
# MCAS EL TORO Phase 1 RI Technical Memorandum

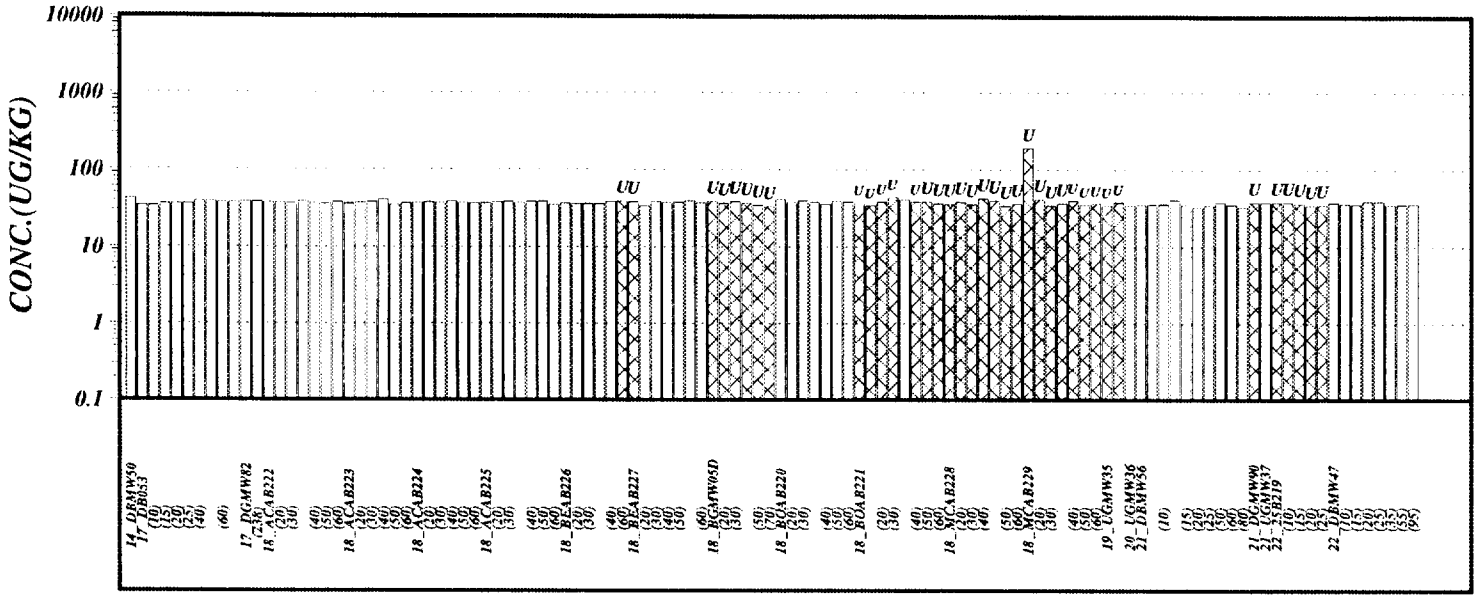
## PCB-1242 Concentration in Soil Boring (07/09/92-08/12/95)

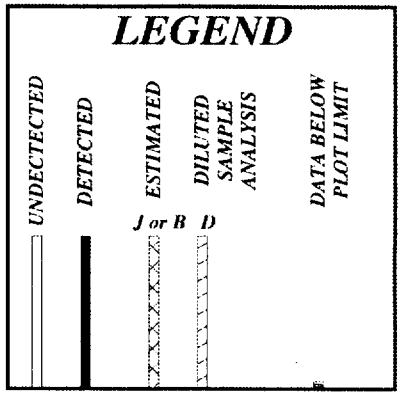


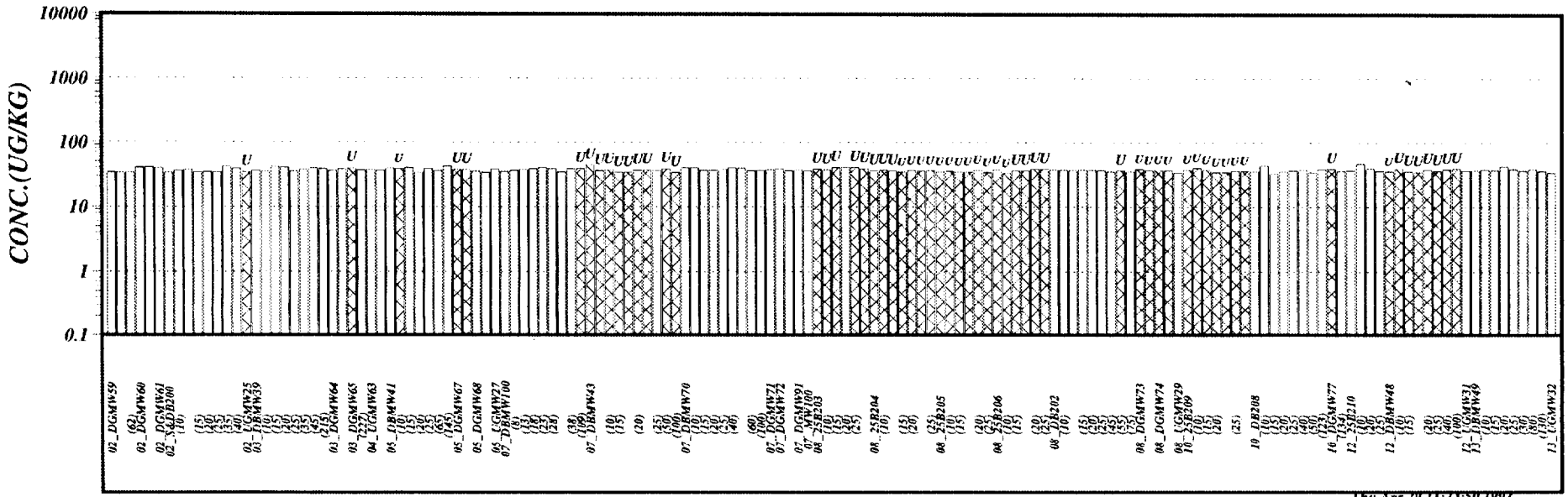



# MCAS EL TORO Phase 1 RI Technical Memorandum

## PCB-1248 Concentration in Soil Boring (07/09/92-08/12/95)

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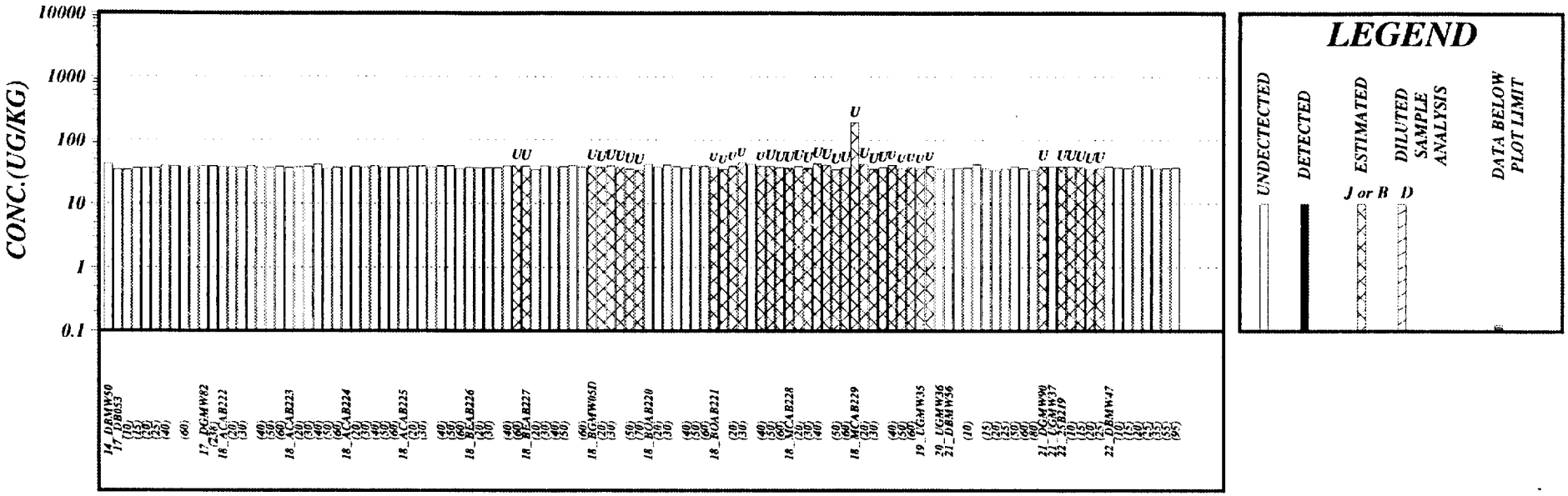
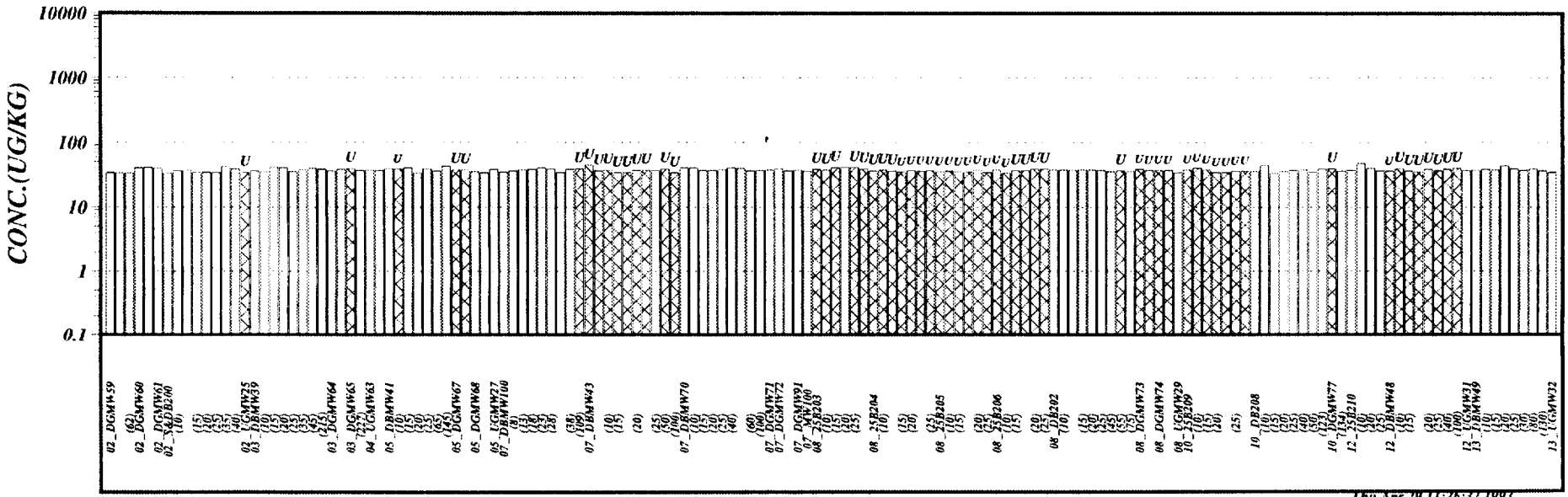
# MCAS EL TORO Phase 1 RI Technical Memorandum

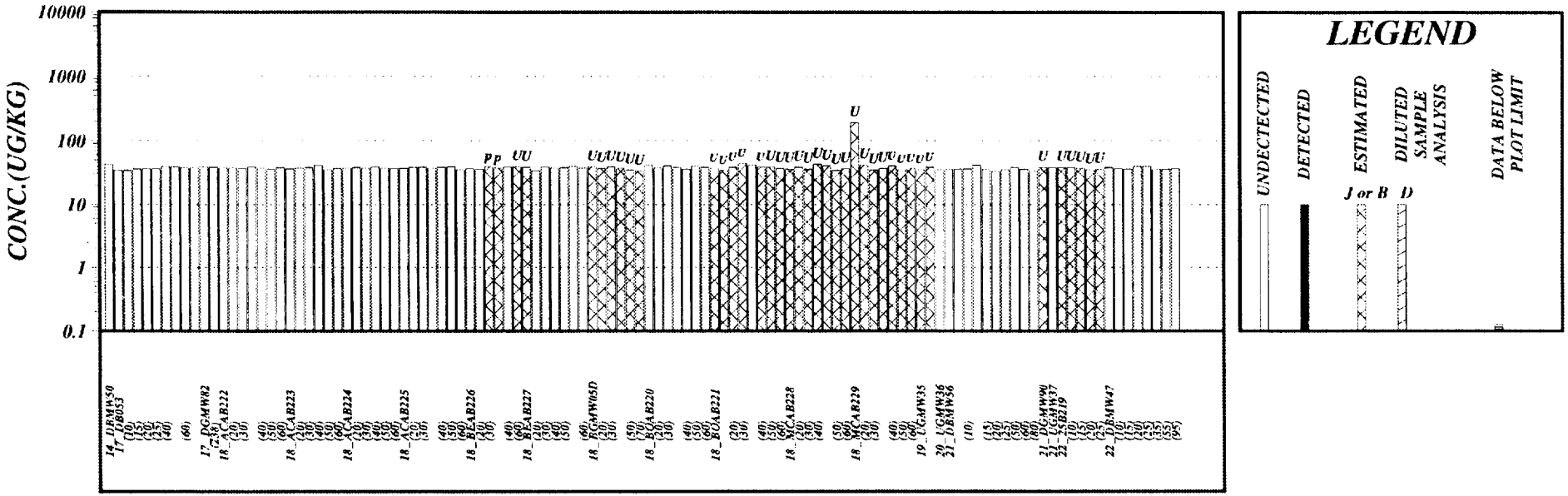
## PCB-1254 Concentration in Soil Boring (07/09/92-08/12/95)

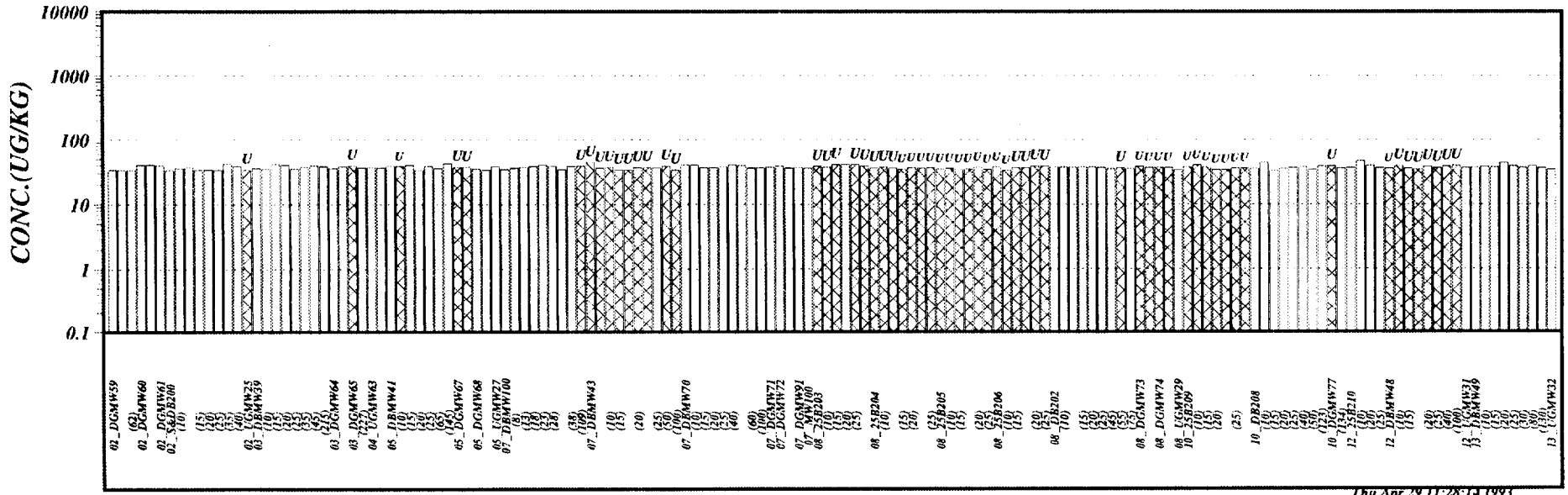


# MCAS EL TORO Phase 1 RI Technical Memorandum

## PCB-1260 Concentration in Soil Boring (07/09/92-08/12/95)

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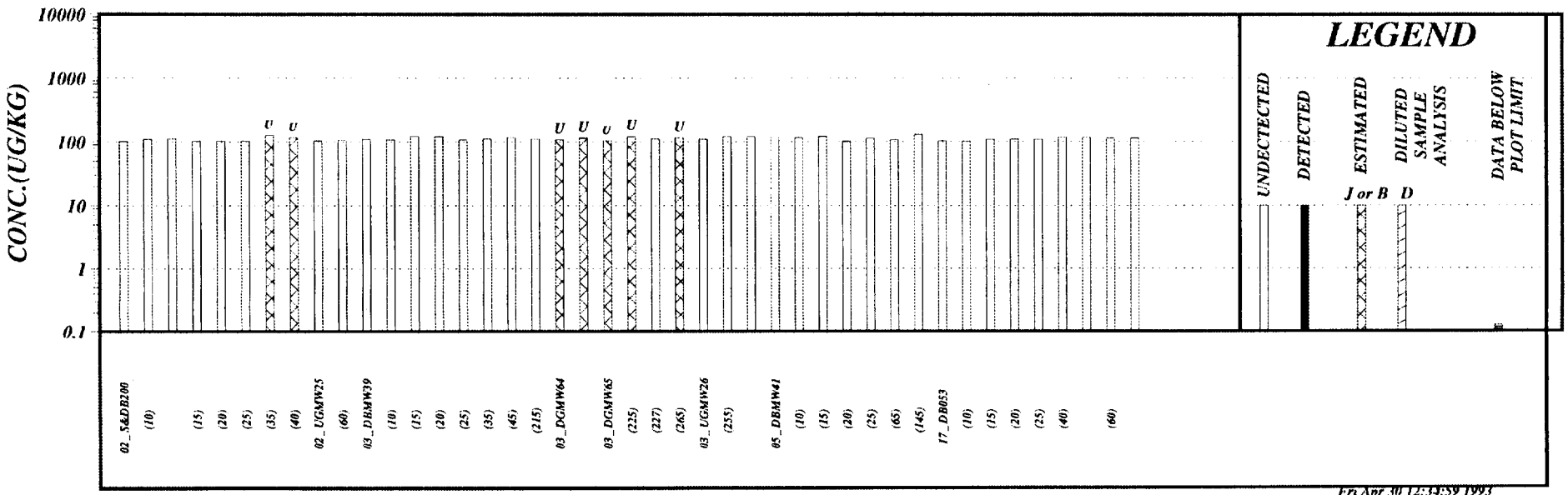
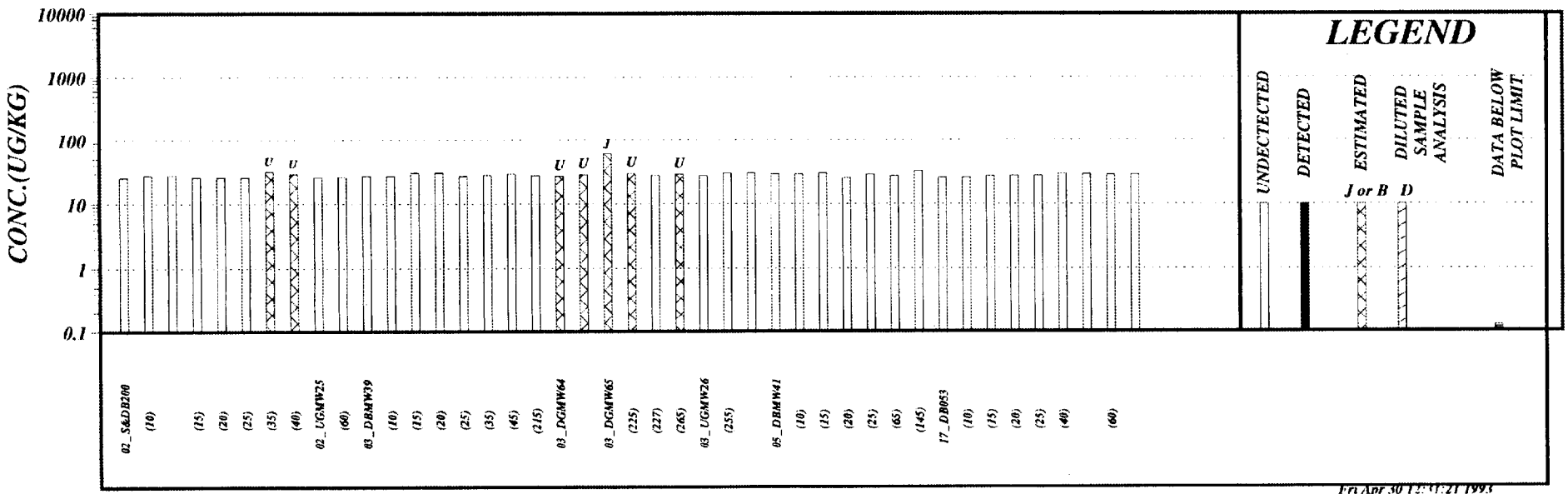
# MCAS EL TORO Phase 1 RI Technical Memorandum

## 2,4 DICHLOROPHENOXY ACETIC ACID Concentration in Soil Boring (07/24/92-10/22/92)



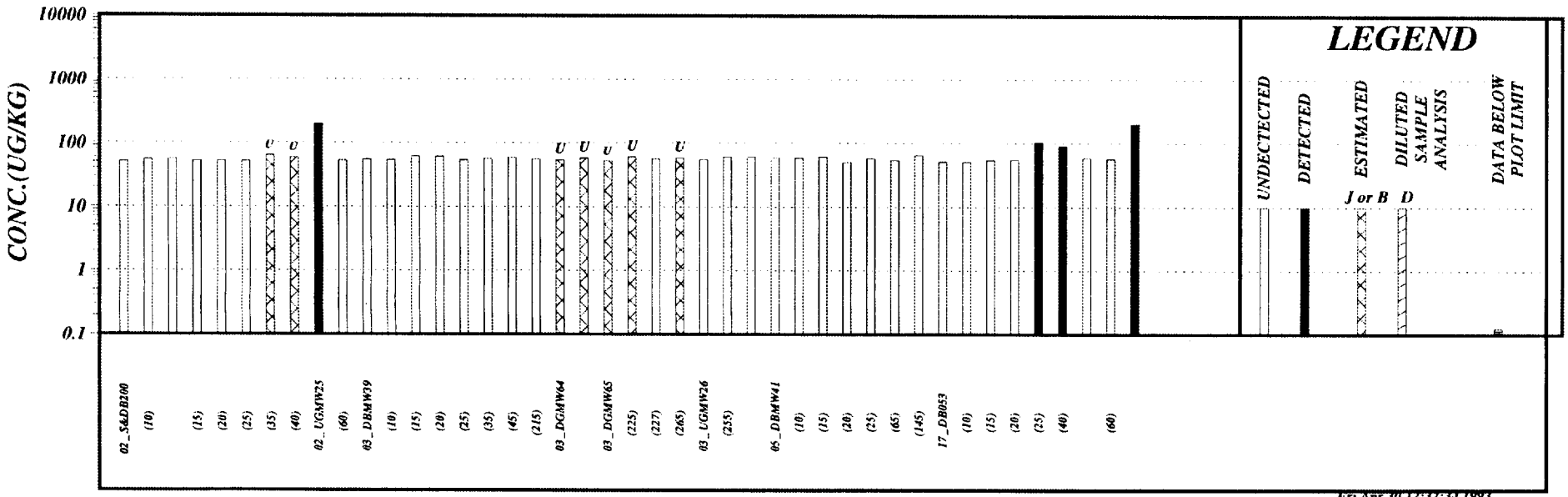
# MCAS EL TORO Phase 1 RI Technical Memorandum

## 2,4,5-TP (SILVEX) Concentration in Soil Boring (07/24/92-10/22/92)



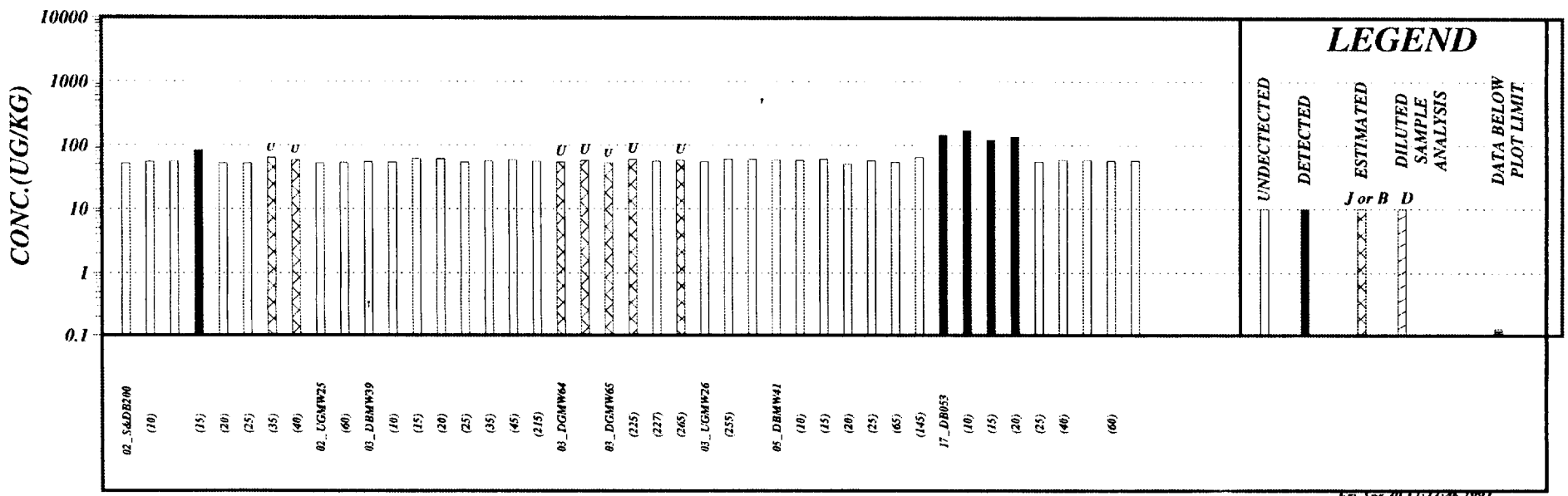
# MCAS EL TORO Phase 1 RI Technical Memorandum

## 2,4-DB Concentration in Soil Boring (07/24/92-10/22/92)



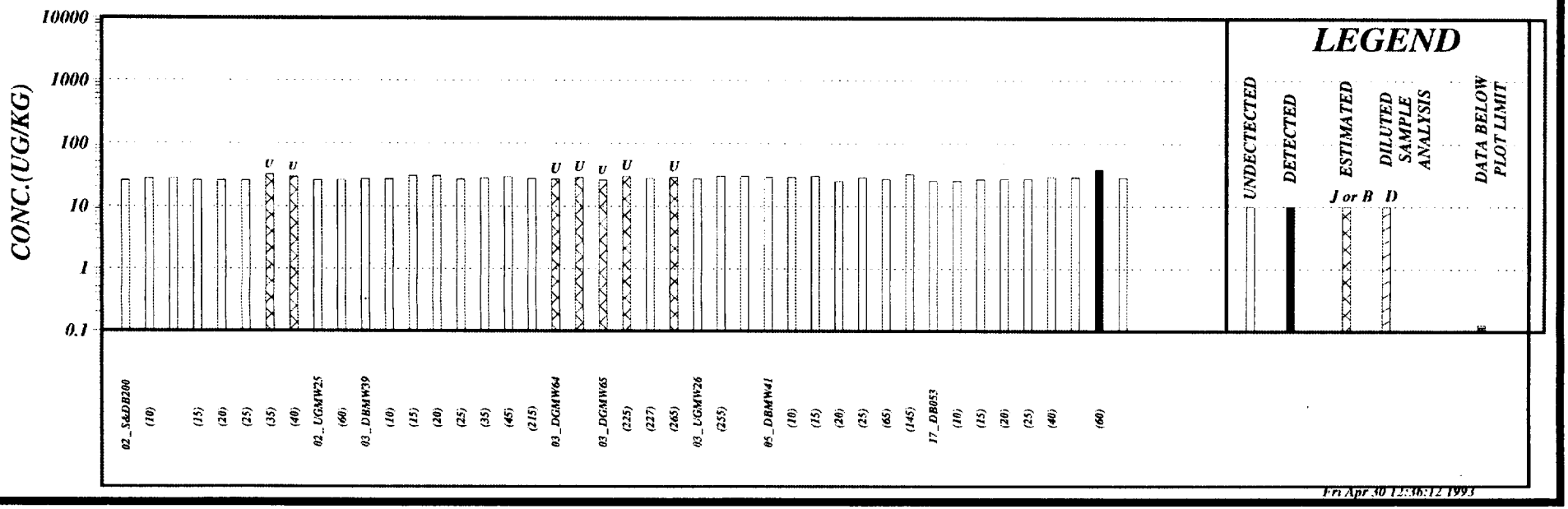
# MCAS EL TORO Phase 1 RI Technical Memorandum

## DALAPON Concentration in Soil Boring (07/24/92-10/22/92)



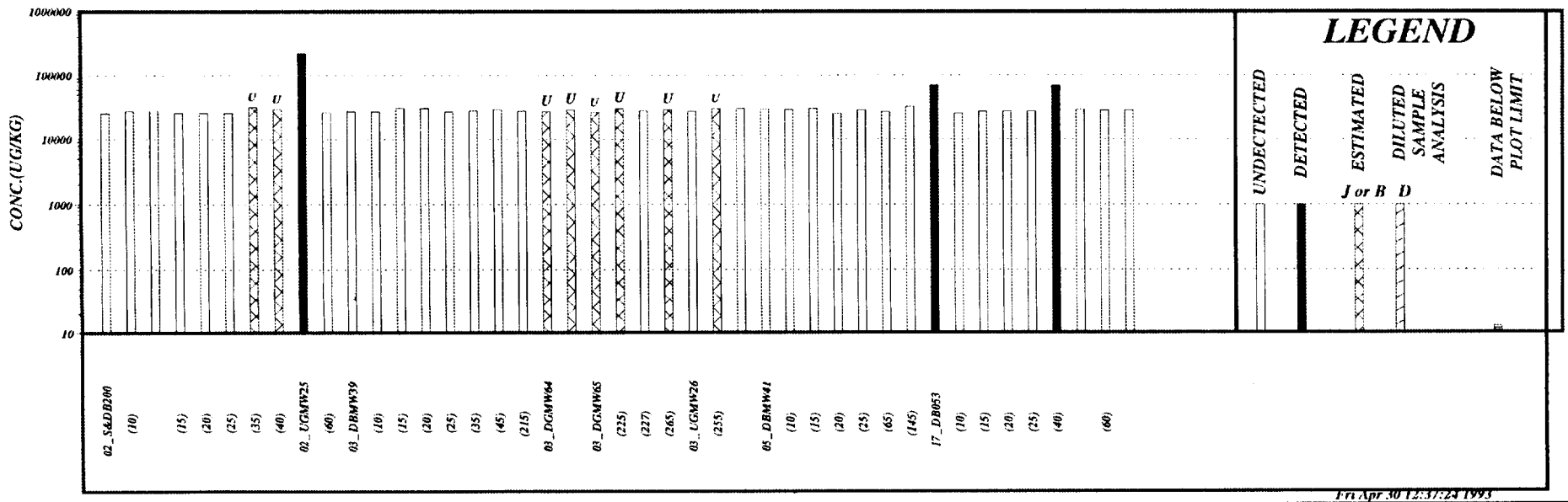
# MCAS EL TORO Phase 1 RI Technical Memorandum

## DINOSEB Concentration in Soil Boring (07/24/92-10/22/92)



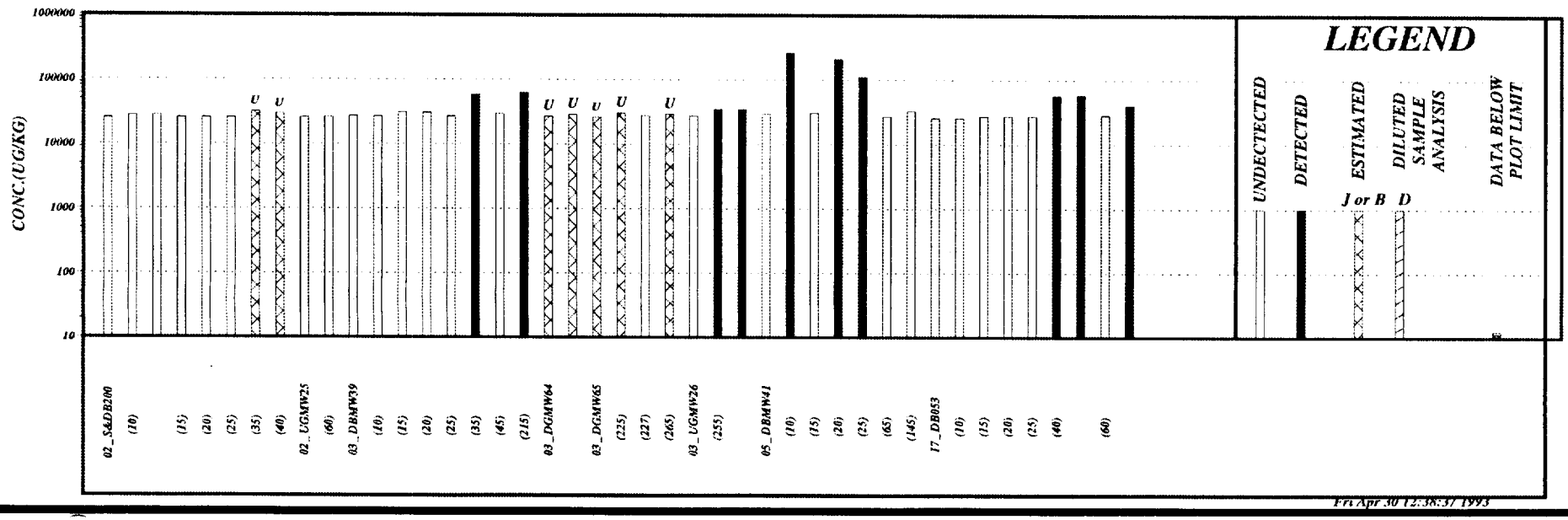
# MCAS EL TORO Phase 1 RI Technical Memorandum

## MCPA Concentration in Soil Boring(07/24/92-10/22/92)



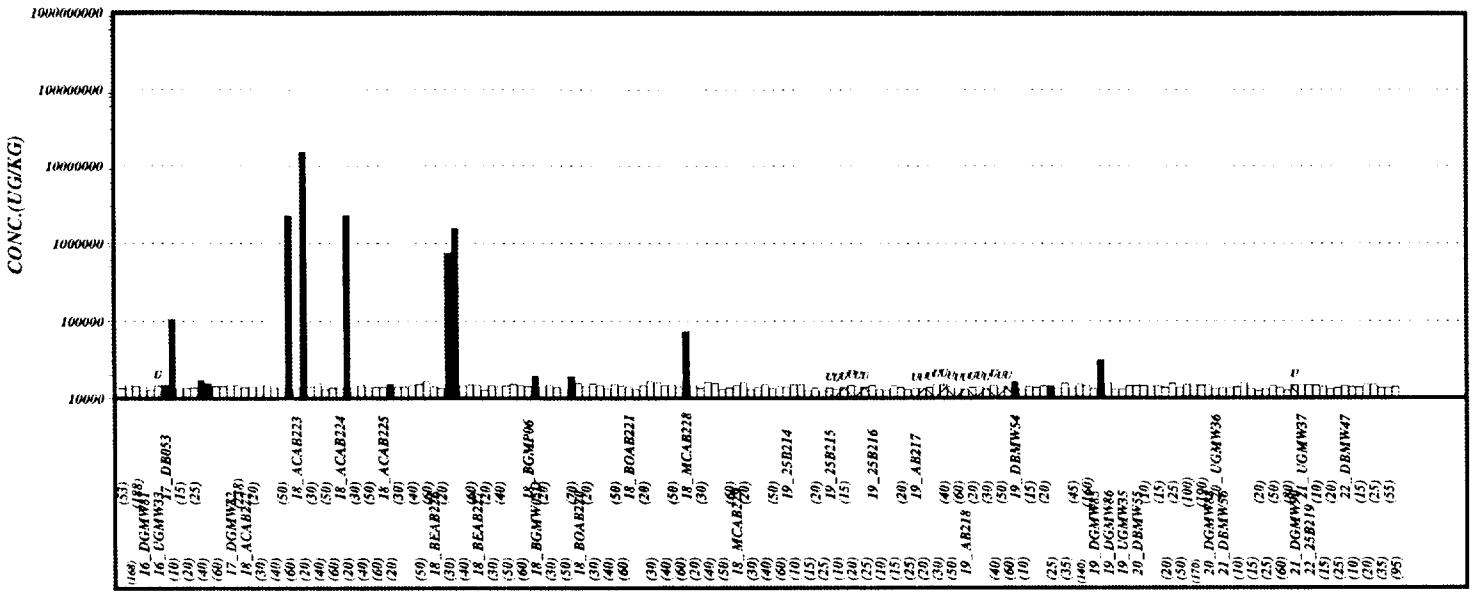
# MCAS EL TORO Phase 1 RI Technical Memorandum

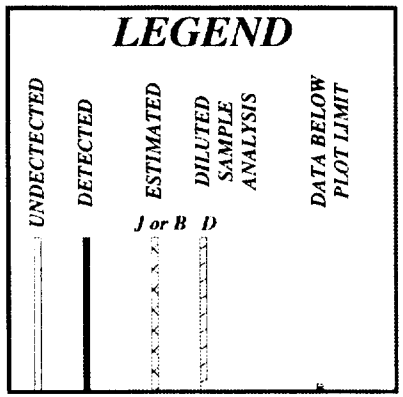
## MCPP Concentration in Soil Boring (07/24/92-10/22/92)

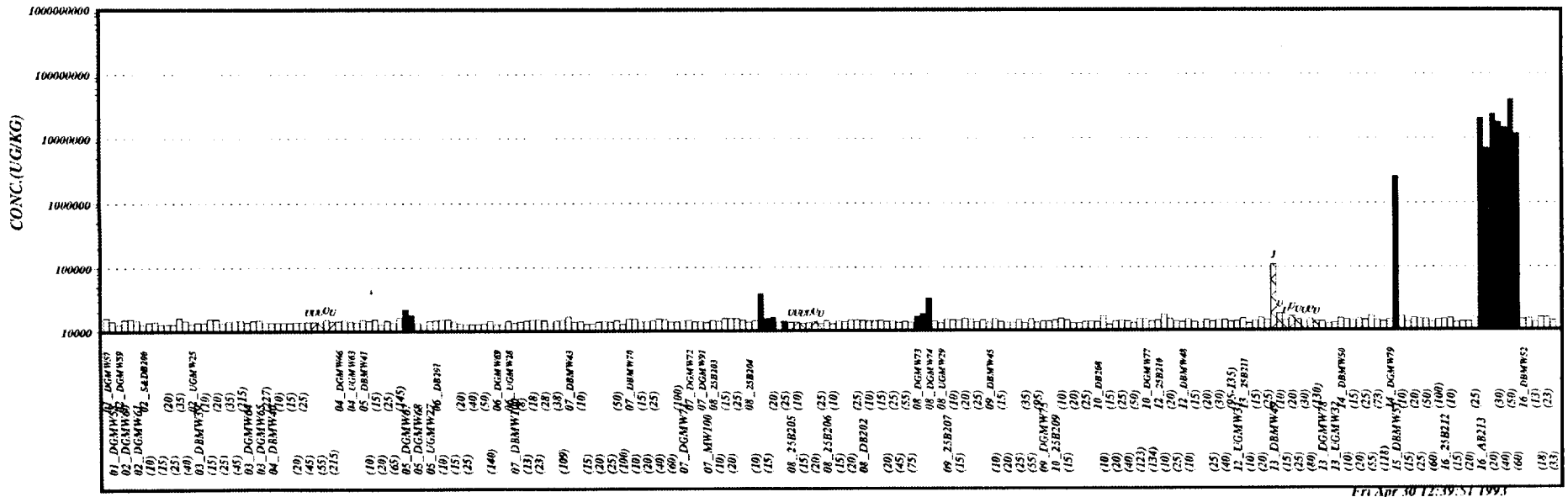


# MCAS EL TORO Phase 1 RI Technical Memorandum

## TPH DIESEL Concentration in Soil Boring (06/30/92-08/12/95)

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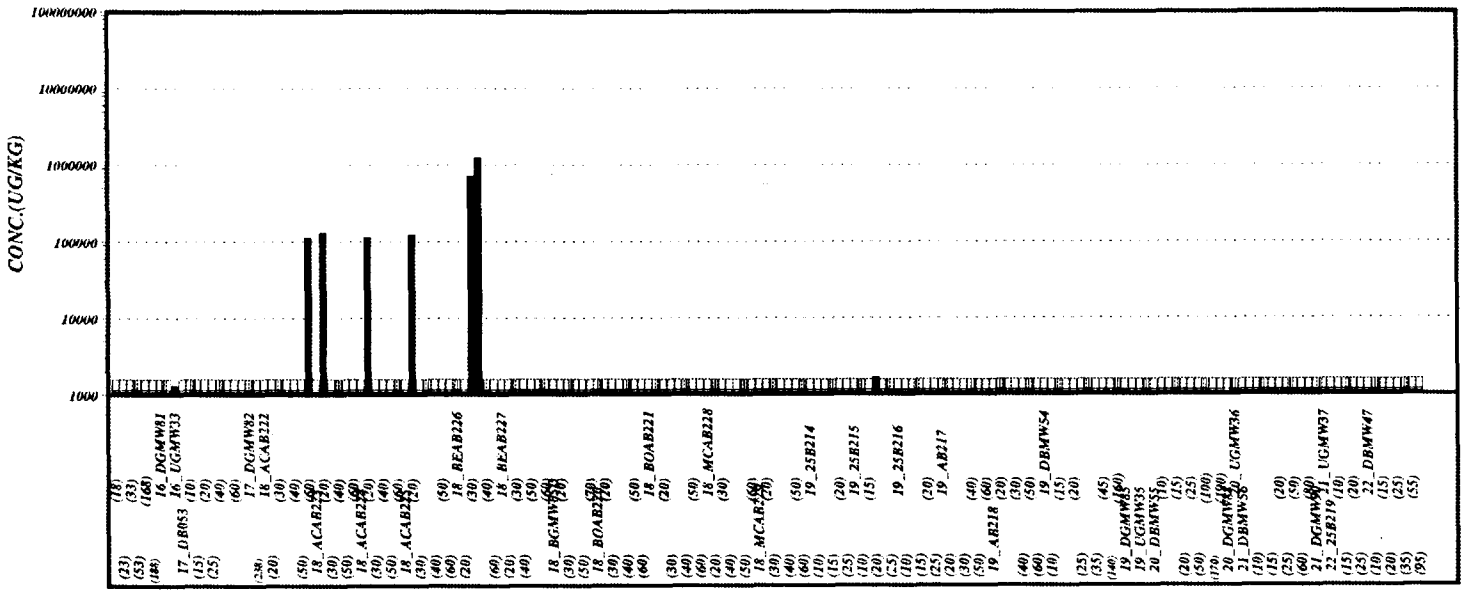
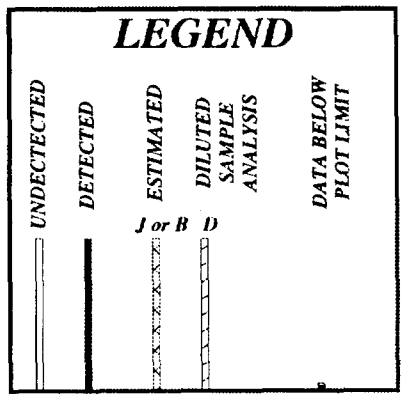
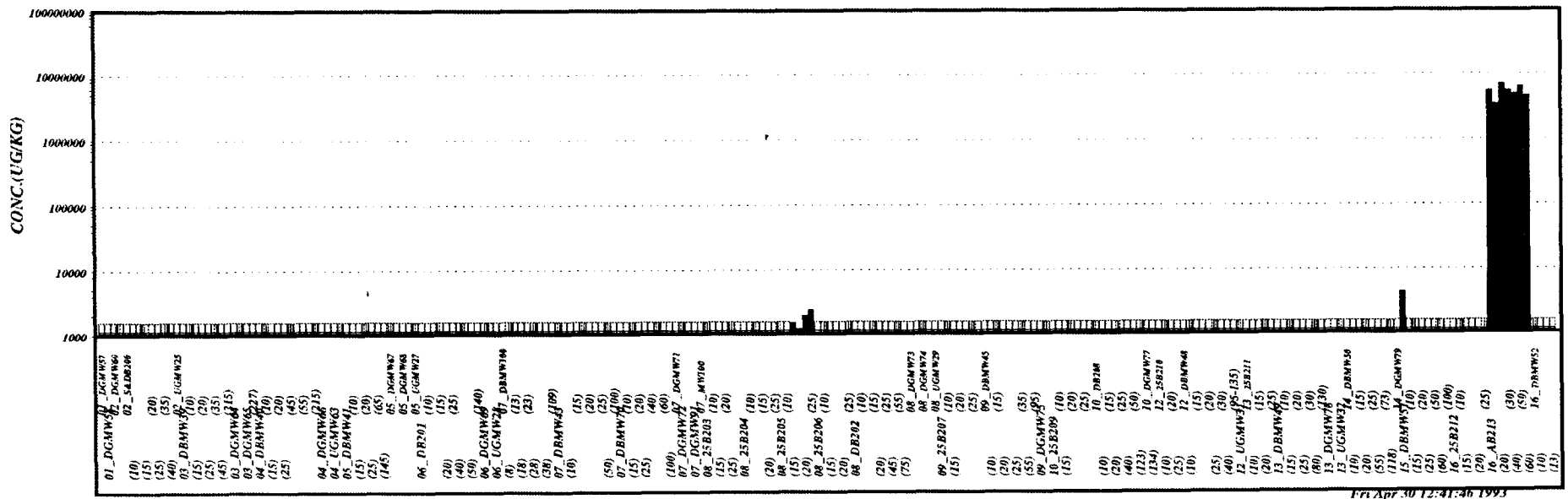
# MCAS EL TORO Phase 1 RI Technical Memorandum

## TPHVOA Concentration in Soil Boring (06/30/92-08/12/95)

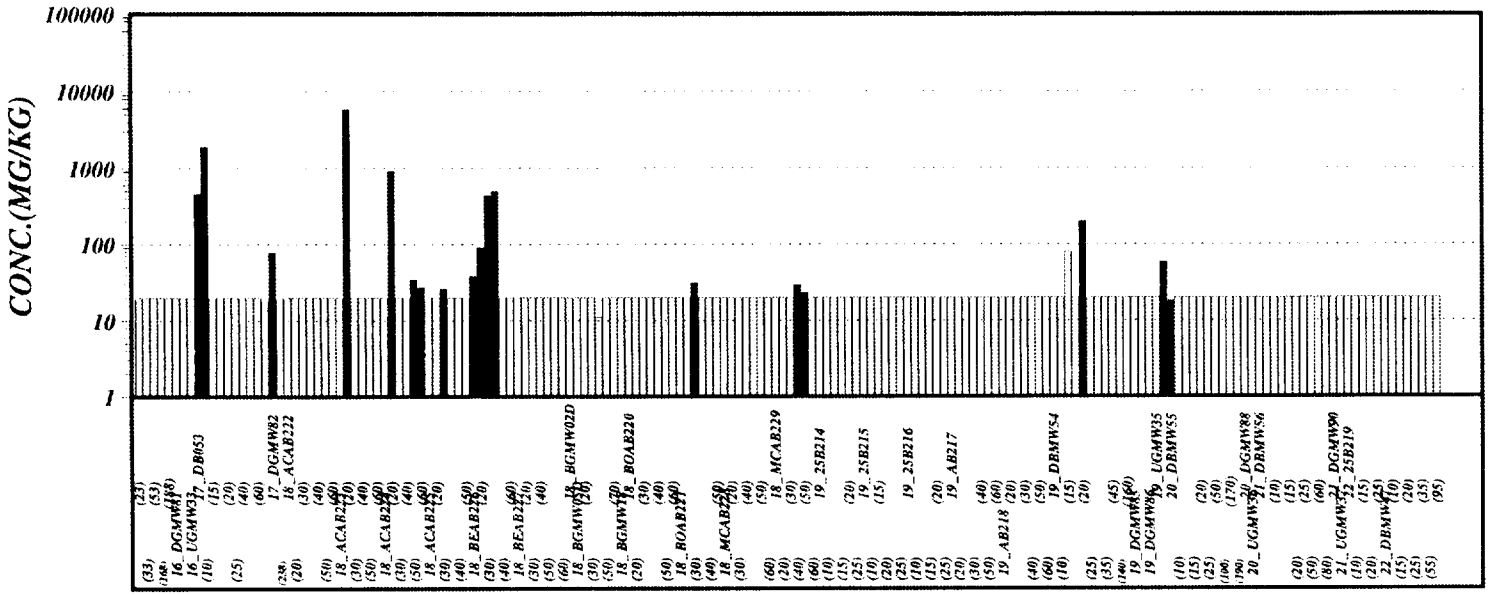


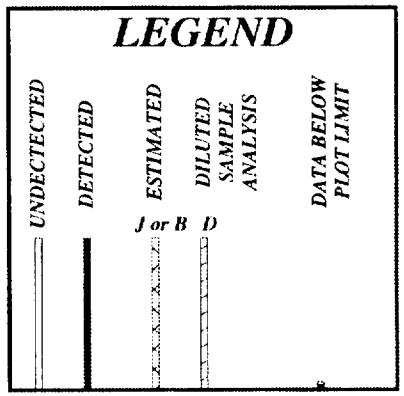



# MCAS EL TORO Phase 1 RI Technical Memorandum

## TOTAL RECOVERABLE PETROLEUM HYDROCARON Concentration in Soil Boring (06/12/92-08/12/95



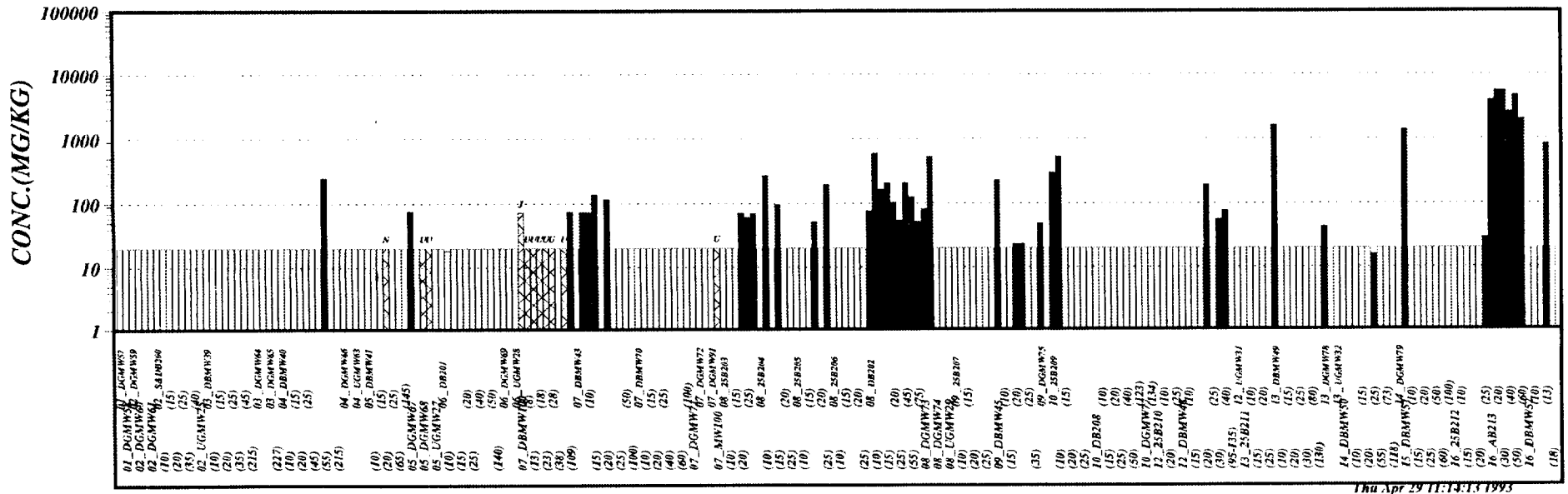




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TABLE D1-4

MCAS El Toro Phase I RI Technical Memorandum

CHEMICALS SELECTED (BOLD LETTERS) FOR GROUND WATER QUALITY PLOTS



| CHEMICAL NAME | UNITS | TOTAL NUMBER OF DATA POINTS | DATA ABOVE DETECTION LIMIT | CONCENTRATION | | | | DETECT -ION LIMIT | REGULATORY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MINIMUM | FLAG | MAXIMUM | FLAG | | LIMIT | CODE |
| **GENERAL CHEMISTRY** | | | | | | | | | | |
| **ALKALINITY AS CACO3** | MG/L | 139 | 139 | 75 | | 447 | | 1 | NA | NA |
| **BICARBONATE** | MG/L | 516 | 516 | 51 | | 720 | | 1 | NA | NA |
| **CARBONATE** | MG/L | 131 | 130 | 0 | | 286 | | 0 | NA | NA |
| **CHLORIDE** | MG/L | 520 | 520 | 18 | | 1580 | | 0.13 | 250 | 3 |
| **CYANIDE** | UG/L | 141 | 8 | 3 | U | 5.5 | B | 3 | NA | NA |
| **CYANIDE** | MG/L | 1 | 0 | 3 | U | 3 | U | 3 | NA | NA |
| **NITRATE AS N** | MG/L | 381 | 298 | 0.1 | U | 70 | | 0.1 | 10 | 2 |
| **NITRATE/NITRITE-N** | MG/L | 137 | 129 | 0.05 | U | 66.7 | | 0.05 | 10 | 1 |
| SPECIFIC CONDUCTANCE | UMHO | 944 | 944 | 190 | | 4540 | | 0 | NA | NA |
| **SULFATE** | MG/L | 520 | 514 | 0.1 | U | 1470 | | 36.4 | 250 | 3 |
| **TOTAL DISSOLVED SOLIDS** | MG/L | 523 | 523 | 320 | | 5260 | | 3 | 500 | 3 |
| **METALS** | | | | | | | | | | |
| **ALUMINUM** | UG/L | 359 | 176 | 0.5 | | 2400 | | 22.2 | 50 | 3 |
| **ANTIMONY** | UG/L | 142 | 62 | 10.7 | U | 40.7 | b | 17.2 | NA | NA |
| **ARSENIC** | UG/L | 367 | 182 | 0.7 | b | 122 | | 1 | 50 | 2 |
| **BARIUM** | UG/L | 365 | 363 | 1 | U | 263 | | 0.6 | 2000 | 2 |
| **BERYLLIUM** | UG/L | 142 | 9 | 0.24 | U | 0.94 | b | 0.2 | NA | NA |
| **CADMIUM** | UG/L | 366 | 163 | 0.1 | U | 118 | | 2.7 | 5 | 2 |
| **CALCIUM** | UG/L | 521 | 521 | 6300 | | 869000 | | 11.5 | NA | NA |
| **CHROMIUM** | UG/L | 367 | 149 | 1 | U | 443 | | 1.9 | 50 | 1 |
| **COBALT** | UG/L | 142 | 7 | 1.7 | U | 14.4 | b | 1.7 | NA | NA |
| COPPER | UG/L | 385 | 236 | 0.09 | U | 177 | | 1.8 | 1300 | 2 |
| **IRON** | UG/L | 403 | 298 | 0.4 | | 9800 | | 41.4 | 300 | 3 |
| **LEAD** | UG/L | 365 | 31 | 0.3 | U | 33 | | 1.4 | 15 | 2 |
| **MAGNESIUM** | UG/L | 522 | 521 | 100 | U | 351000 | | 48.5 | NA | NA |
| **MANGANESE** | UG/L | 401 | 382 | 0.1 | U | 1920 | | 1.6 | 50 | 3 |
| **MERCURY** | UG/L | 142 | 17 | 0.07 | U | 0.48 | | 0.17 | 2 | 2 |
| **NICKEL** | UG/L | 142 | 79 | 5.3 | U | 866 | | 10.7 | NA | NA |
| **POTASSIUM** | UG/L | 522 | 518 | 100 | U | 12000 | | 601.5 | NA | NA |
| **SELENIUM** | UG/L | 378 | 222 | 0.5 | U | 260 | | 2.1 | 10 | 1 |
| **SILVER** | UG/L | 366 | 90 | 0.1 | U | 11 | | 1.5 | 50 | 1 |
| **SODIUM** | UG/L | 522 | 522 | 36400 | | 798000 | | 36.1 | NA | NA |
| **THALLIUM** | UG/L | 142 | 8 | 0.7 | U | 1.2 | J | 1.6 | NA | NA |
| **VANADIUM** | UG/L | 142 | 134 | 1.9 | U | 44.9 | b | 1.3 | NA | NA |
| **ZINC** | UG/L | 385 | 168 | 2 | U | 950 | | 7.6 | 5000 | 2 |

TABLE D1-4

MCAS El Toro Phase I RI Technical Memorandum

CHEMICALS SELECTED (BOLD LETTERS) FOR GROUND WATER QUALITY PLOTS



| CHEMICAL NAME | UNITS | TOTAL NUMBER OF DATA POINTS | DATA ABOVE DETECTION LIMIT | CONCENTRATION | | | | DETECT -ION LIMIT | REGULATORY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MINIMUM | FLAG | MAXIMUM | FLAG | | LIMIT | CODE |
| **VOLATILE ORGANIC COMPOUNDS** | | | | | | | | | | |
| 1,1,1-TRICHLOROETHANE | UG/L | 855 | 14 | 0.4 | J | 0.9 | | 1 | 200 | 2 |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | 185 | 0 | 1 | U | 1 | U | 1 | NA | NA |
| 1,1,2-TRICHLOROETHANE | UG/L | 185 | 3 | 0.5 | J | 2 | | 1 | 32 | 1 |
| 1,1-DICHLOROETHANE | UG/L | 185 | 0 | 1 | U | 1 | U | 1 | 5 | 1 |
| 1,1-DICHLOROETHENE | UG/L | 185 | 8 | 0.4 | J | 8 | | 1 | NA | NA |
| 1,2-DICHLOROETHANE | UG/L | 687 | 14 | 0.5 | J | 1 | | 1 | 0.5 | 1 |
| 1,2-DICHLOROETHENE (TOTAL) | UG/L | 854 | 55 | 0.5 | U | 12.7 | | 1 | NA | NA |
| 1,2-DICHLOROPROPANE | UG/L | 185 | 3 | 1 | U | 4 | | 1 | 5 | 2 |
| **2-BUTANONE** | UG/L | 185 | 1 | 1 | J | 1 | J | 2 | NA | NA |
| 2-HEXANONE | UG/L | 185 | 2 | 1 | J | 7 | | 2 | NA | NA |
| 4-METHYL-2-PENTANONE | UG/L | 185 | 1 | 0.6 | J | 0.6 | J | 2 | NA | NA |
| **ACETONE** | UG/L | 185 | 5 | 2 | U | 51 | | 2 | NA | NA |
| **BENZENE** | UG/L | 185 | 10 | 0.3 | J | 730 | D | 1 | 1 | 1 |
| BROMODICHLOROMETHANE | UG/L | 185 | 10 | 0.5 | J | 11 | | 1 | 100 | 2 |
| BROMOFORM | UG/L | 185 | 1 | 1 | U | 2 | | 1 | 100 | 2 |
| BROMOMETHANE (METHYL BROMIDE) | UG/L | 185 | 0 | 2 | U | 2 | U | 2 | NA | NA |
| **CARBON DISULFIDE** | UG/L | 185 | 8 | 0.5 | J | 8 | | 1 | NA | NA |
| **CARBON TETRACHLORIDE** | UG/L | 855 | 35 | 0.3 | J | 61 | | 1 | 0.5 | 1 |
| CHLOROBENZENE | UG/L | 855 | 35 | 0.3 | | 1.6 | | 1 | 30 | 1 |
| **CHLORODIBROMOMETHANE** | UG/L | 185 | 9 | 0.5 | J | 11 | | 1 | 100 | 2 |
| CHLOROETHANE | UG/L | 185 | 0 | 2 | U | 2 | U | 2 | NA | NA |
| **CHLOROFORM** | UG/L | 855 | 155 | 0.1 | | 14 | | 1 | 100 | 2 |
| **CHLOROMETHANE (METHYL CHLORIDE)** | UG/L | 185 | 44 | 0.4 | J | 20 | | 2 | NA | NA |
| CIS-1,3-DICHLOROPROPENE | UG/L | 185 | 0 | 1 | U | 1 | U | 1 | NA | NA |
| ETHYLBENZENE | UG/L | 855 | 45 | 0.5 | U | 2 | | 1 | NA | NA |
| METHYLENE CHLORIDE | UG/L | 184 | 16 | 0.5 | J | 2 | | 1 | 40 | 4 |
| STYRENE | UG/L | 185 | 2 | 0.6 | J | 1 | | 1 | 100 | 2 |
| **TETRACHLOROETHENE** | UG/L | 855 | 84 | 0.1 | | 81 | | 1 | 5 | 2 |
| **TOLUENE** | UG/L | 855 | 73 | 0.5 | U | 34 | | 1 | 1000 | 2 |
| TOLUENE-D8 | % | 2 | 2 | 104.3 | | 104.3 | | 5 | NA | NA |
| TRANS-1,3-DICHLOROPROPENE | UG/L | 185 | 0 | 1 | U | 1 | U | 1 | NA | NA |
| TRICHLOROETHYLENE | UG/L | 866 | 416 | 0.5 | U | 2000 | D | 1 | 5 | 2 |
| VINYL ACETATE | UG/L | 185 | 0 | 2 | U | 2 | U | 2 | NA | NA |
| **VINYL CHLORIDE** | UG/L | 185 | 0 | 2 | U | 2 | U | 2 | 0.5 | 1 |
| **XYLENE (TOTAL)** | UG/L | 185 | 15 | 0.8 | J | 58 | | 1 | NA | NA |

TABLE D1-4

MCAS El Toro Phase I RI Technical Memorandum

CHEMICALS SELECTED (BOLD LETTERS) FOR GROUND WATER QUALITY PLOTS



| CHEMICAL NAME | UNITS | TOTAL NUMBER OF DATA POINTS | DATA ABOVE DETECTION LIMIT | CONCENTRATION | | | | DETECT -ION LIMIT | REGULATORY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MINIMUM | FLAG | MAXIMUM | FLAG | | LIMIT | CODE |
| **SEMIVOLATILE ORGANIC COMPOUNDS** | | | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 1,2-DICHLOROBENZENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | 600 | 2 |
| 1,3-DICHLOROBENZENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | 600 | 2 |
| 1,4-DICHLOROBENZENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | 5 | 1 |
| 2,4,5-TRICHLOROPHENOL | UG/L | 141 | 1 | 25 | U | 25 | J | 25 | NA | NA |
| 2,4,6-TRICHLOROPHENOL | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| 2,4-DICHLOROPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 2,4-DIMETHYLPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | 400 | 4 |
| 2,4-DINITROPHENOL | UG/L | 141 | 1 | 25 | U | 25 | J | 25 | NA | NA |
| 2,4-DINITROTOLUENE | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| 2,6-DINITROTOLUENE | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| 2-CHLORONAPHTHALENE | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| 2-CHLOROPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 2-METHYLNAPHTHALENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 2-METHYLPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 2-NITROANILINE | UG/L | 141 | 1 | 25 | U | 25 | J | 25 | NA | NA |
| 2-NITROPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 3,3'-DICHLOROBENZIDINE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 3-NITROANILINE | UG/L | 141 | 1 | 25 | U | 25 | J | 25 | NA | NA |
| 4,6-DINITRO-2-METHYLPHENOL | UG/L | 141 | 0 | 25 | U | 50 | U | 25 | NA | NA |
| 4-BROMOPHENYL PHENYL ETHER | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 4-CHLORO-3-METHYLPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 4-CHLOROANILINE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 4-CHLOROPHENYL PHENYL ETHER | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| 4-METHYLPHENOL | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| 4-NITROANILINE | UG/L | 141 | 1 | 25 | U | 25 | J | 25 | NA | NA |
| 4-NITROPHENOL | UG/L | 141 | 1 | 25 | U | 25 | J | 25 | NA | NA |
| ACENAPHTHENE | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| ACENAPHTHYLENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| ANTHRACENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BENZO(A)ANTHRACENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BENZO(A)PYRENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BENZO(B)FLUORANTHENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BENZO(GHI)PERYLENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BENZO(K)FLUORANTHENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| **BENZYL BUTYL PHTHALATE** | UG/L | 141 | 2 | 3 | J | 19 | | 10 | NA | NA |
| BIS(2-CHLOROETHOXY) METHANE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BIS(2-CHLOROETHYL)ETHER | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| BIS(2-CHLOROISOPROPYL) ETHER | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| **BIS(2-ETHYLHEXYL)PHTHALATE** | UG/L | 141 | 10 | 2 | J | 26 | | 10 | NA | NA |

TABLE D1-4

MCAS El Toro Phase I RI Technical Memorandum

CHEMICALS SELECTED (BOLD LETTERS) FOR GROUND WATER QUALITY PLOTS



| CHEMICAL NAME | UNITS | TOTAL NUMBER OF DATA POINTS | DATA ABOVE DETECTION LIMIT | CONCENTRATION MINIMUM | FLAG | MAXIMUM | FLAG | DETECT -ION LIMIT | REGULATORY LIMIT | CODE |
|---|---|---|---|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS continued** | | | | | | | | | | |
| CARBAZOLE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| CHRYSENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| DI-N-BUTYL PHTHALATE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| DI-N-OCTYL PHTHALATE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| DIBENZO(A,H)ANTHRACENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| DIBENZOFURAN | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| DIETHYL PHTHALATE | UG/L | 141 | 2 | 3 | J | 10 | J | 10 | 4 | 1 |
| DIMETHYL PHTHALATE | UG/L | 141 | 5 | 10 | U | 220 | | 10 | NA | NA |
| FLUORANTHENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| FLUORENE | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| HEXACHLOROBENZENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| HEXACHLOROBUTADIENE | UG/L | 141 | 1 | 10 | U | 10 | J | 10 | NA | NA |
| HEXACHLOROCYCLOPENTADIENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| HEXACHLOROETHANE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| INDENO(1,2,3-CD)PYRENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| ISOPHORONE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| N-NITROSODIPHENYLAMINE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| N-NITROSODIPROPYLAMINE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| NAPHTHALENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| NITROBENZENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| PENTACHLOROPHENOL | UG/L | 141 | 0 | 25 | U | 50 | U | 25 | 1 | 4 |
| PHENANTHRENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| PHENOL | UG/L | 141 | 1 | 10 | U | 14 | | 10 | 5 | 4 |
| PYRENE | UG/L | 141 | 0 | 10 | U | 20 | U | 10 | NA | NA |
| **PESTICIDES AND PCBs** | | | | | | | | | | |
| 4,4'-DDD | UG/L | 140 | 0 | 0.1 | U | 0.2 | U | 0.1 | NA | NA |
| **4,4'-DDE** | UG/L | 140 | 0 | 0.1 | U | 0.2 | U | 0.1 | NA | NA |
| **4,4'-DDT** | UG/L | 140 | 3 | 0.01 | J | 0.14 | | 0.1 | NA | NA |
| ALDRIN | UG/L | 140 | 1 | 0.05 | U | 0.06 | | 0.1 | 0.05 | 4 |
| ALPHA-CHLORDANE | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | NA | NA |
| BHC-ALPHA | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | 0.7 | 4 |
| **BHC-BETA** | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | 0.3 | 4 |
| BHC-DELTA | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | NA | NA |
| BHC-GAMMA(LINDANE) | UG/L | 140 | 4 | 0.01 | | 0.06 | | 0.1 | NA | NA |
| DIELDRIN | UG/L | 140 | 2 | 0.1 | U | 0.14 | | 0.1 | 0.05 | 4 |
| ENDOSULFAN I | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | NA | NA |
| ENDOSULFAN II | UG/L | 140 | 0 | 0.1 | U | 0.2 | U | 0.1 | NA | NA |
| ENDOSULFAN SULFATE | UG/L | 140 | 1 | 0 | | 0 | | 0.1 | NA | NA |
| ENDRIN | UG/L | 140 | 0 | 0.1 | U | 0.2 | U | 0.1 | 0.2 | 2 |
| ENDRIN ALDEHYDE | UG/L | 140 | 0 | 0.1 | U | 0.2 | U | 0.1 | NA | NA |
| ENDRIN KETONE | UG/L | 140 | 0 | 0.1 | U | 0.2 | U | 0.1 | NA | NA |

TABLE D1-4

MCAS El Toro Phase I RI Technical Memorandum

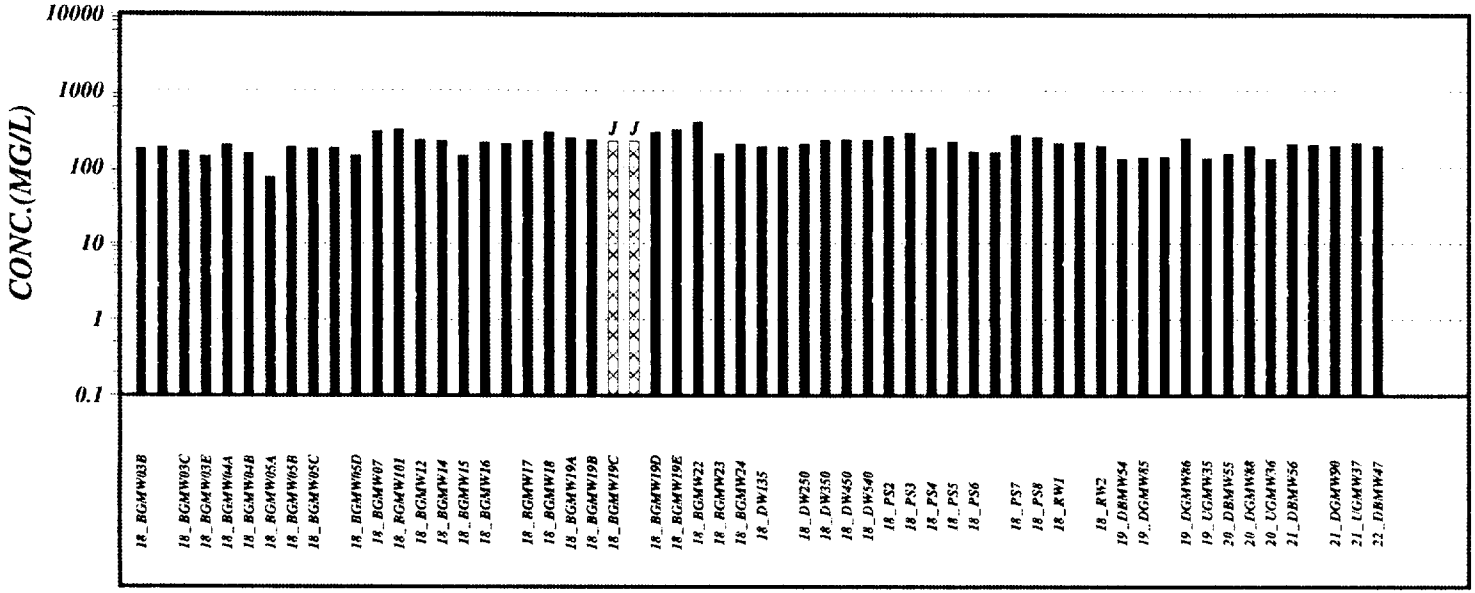
CHEMICALS SELECTED (BOLD LETTERS) FOR GROUND WATER QUALITY PLOTS

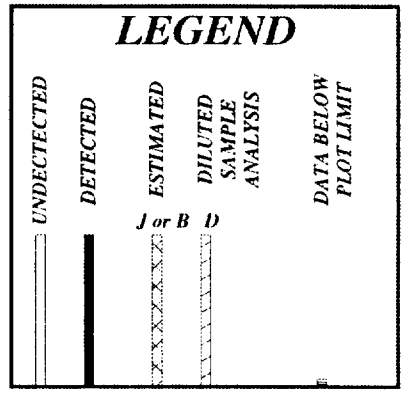


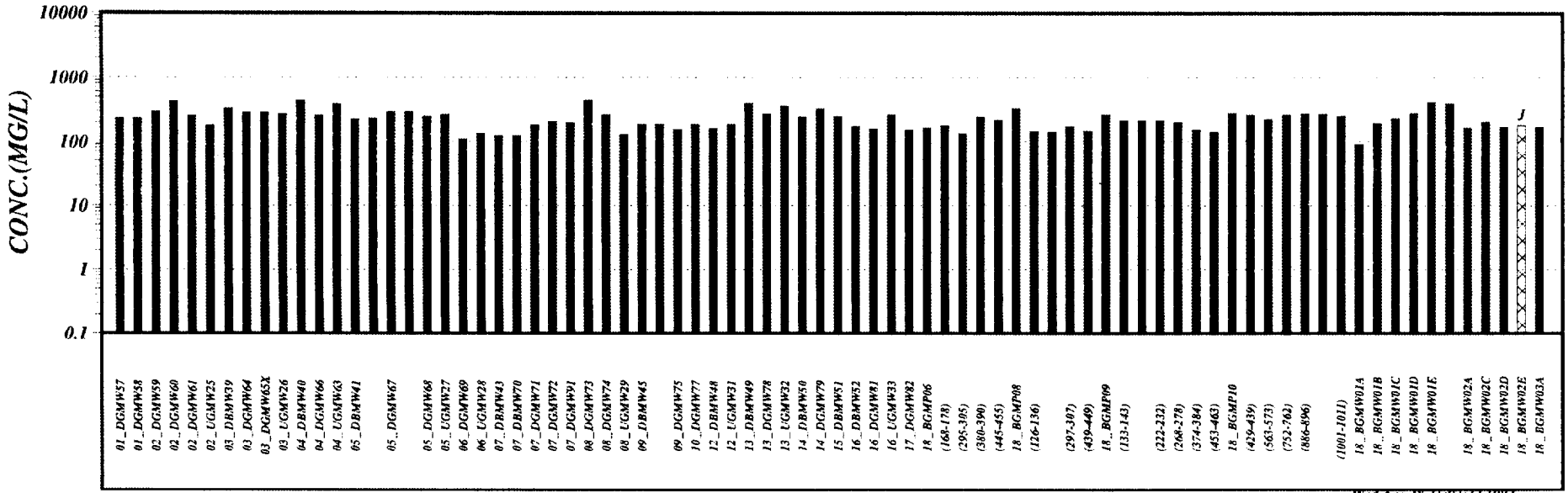
| CHEMICAL NAME | UNITS | TOTAL NUMBER OF DATA POINTS | DATA ABOVE DETECTION LIMIT | CONCENTRATION | | | | DETECT -ION LIMIT | REGULATORY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MINIMUM | FLAG | MAXIMUM | FLAG | | LIMIT | CODE |
| **PESTICIDES AND PCBs continued** | | | | | | | | | | |
| GAMMA-CHLORDANE | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | NA | NA |
| HEPTACHLOR | UG/L | 140 | 2 | 0.05 | U | 0.07 | | 0.1 | 0.01 | 1 |
| HEPTACHLOR EPOXIDE | UG/L | 140 | 0 | 0.05 | U | 0.1 | U | 0.1 | 0.01 | 1 |
| METHOXYCHLOR | UG/L | 140 | 0 | 0.5 | U | 1 | U | 0.5 | 40 | 2 |
| PCB-1016 | UG/L | 140 | 0 | 1 | U | 2 | U | 1 | NA | NA |
| PCB-1221 | UG/L | 140 | 0 | 2 | U | 4 | U | 2 | NA | NA |
| PCB-1232 | UG/L | 140 | 0 | 1 | U | 2 | U | 1 | NA | NA |
| PCB-1242 | UG/L | 140 | 0 | 1 | U | 2 | U | 1 | NA | NA |
| PCB-1248 | UG/L | 140 | 0 | 1 | U | 2 | U | 1 | NA | NA |
| PCB-1254 | UG/L | 140 | 0 | 1 | U | 2 | U | 1 | NA | NA |
| PCB-1260 | UG/L | 140 | 0 | 1 | U | 2 | U | 1 | NA | NA |
| TOXAPHENE | UG/L | 140 | 0 | 5 | U | 10 | U | 5 | 3 | 2 |
| **HERBICIDES** | | | | | | | | | | |
| 2,4 DICHLOROPHENOXY ACETIC ACID | UG/L | 87 | 1 | 0.5 | U | 8.56 | | 0.5 | 70 | 2 |
| 2,4,5-T | UG/L | 87 | 4 | 0.25 | U | 11.4 | | 0.2 | NA | NA |
| 2,4,5-TP (SILVEX) | UG/L | 87 | 1 | 0.25 | U | 2.67 | | 0.2 | NA | NA |
| 2,4-DB | UG/L | 87 | 1 | 0.5 | U | 2.88 | J | 0.5 | NA | NA |
| DALAPON | UG/L | 87 | 3 | 0.5 | U | 2.46 | J | 0.5 | NA | NA |
| DICAMBA | UG/L | 87 | 1 | 0.5 | U | 4.39 | | 0.5 | NA | NA |
| DICHLOROPROP | UG/L | 87 | 3 | 0.5 | U | 6.41 | | 0.5 | NA | NA |
| DINOSEB | UG/L | 87 | 1 | 0.25 | U | 0.42 | | 0.2 | NA | NA |
| MCPA | UG/L | 87 | 1 | 250 | U | 3490 | | 250 | NA | NA |
| MCPP | UG/L | 87 | 2 | 250 | U | 3530 | | 250 | NA | NA |
| **TOTAL FUEL HYDROCARBONS (DIESEL AND GASOLINE)** | | | | | | | | | | |
| **TFH DIESEL** | UG/L | 141 | 17 | 250 | U | 3370 | | 250 | NA | NA |
| TFH GASOLINE | UG/L | 141 | 11 | 50 | U | 1690 | | 50 | NA | NA |
| **TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH)** | | | | | | | | | | |
| 1-PROPENE,3,3,3-TRICHLORO- | MG/L | 1 | 0 | 0.44 | U | 0.44 | U | 0.44 | NA | NA |
| PHENOL,4-(2,2,3,3-TETRAMETHYLBUTYL)- | MG/L | 1 | 0 | 0.44 | U | 0.44 | U | 0.44 | NA | NA |
| **TRPH** | MG/L | 134 | 0 | 0.44 | U | 0.44 | U | 0.44 | NA | NA |
| **GROSS ALPHA AND BETA** | | | | | | | | | | |
| GROSS ALPHA | PCI/L | 20 | 20 | 0.8 | | 24.9 | | 2.8 | 15 | 2 |
| GROSS BETA | PCI/L | 20 | 20 | 5.2 | | 53 | | 5.7 | 50 | 2 |

# MCAS EL TORO Phase 1 RI Technical Memorandum

## ALKALINITY AS CACO3 Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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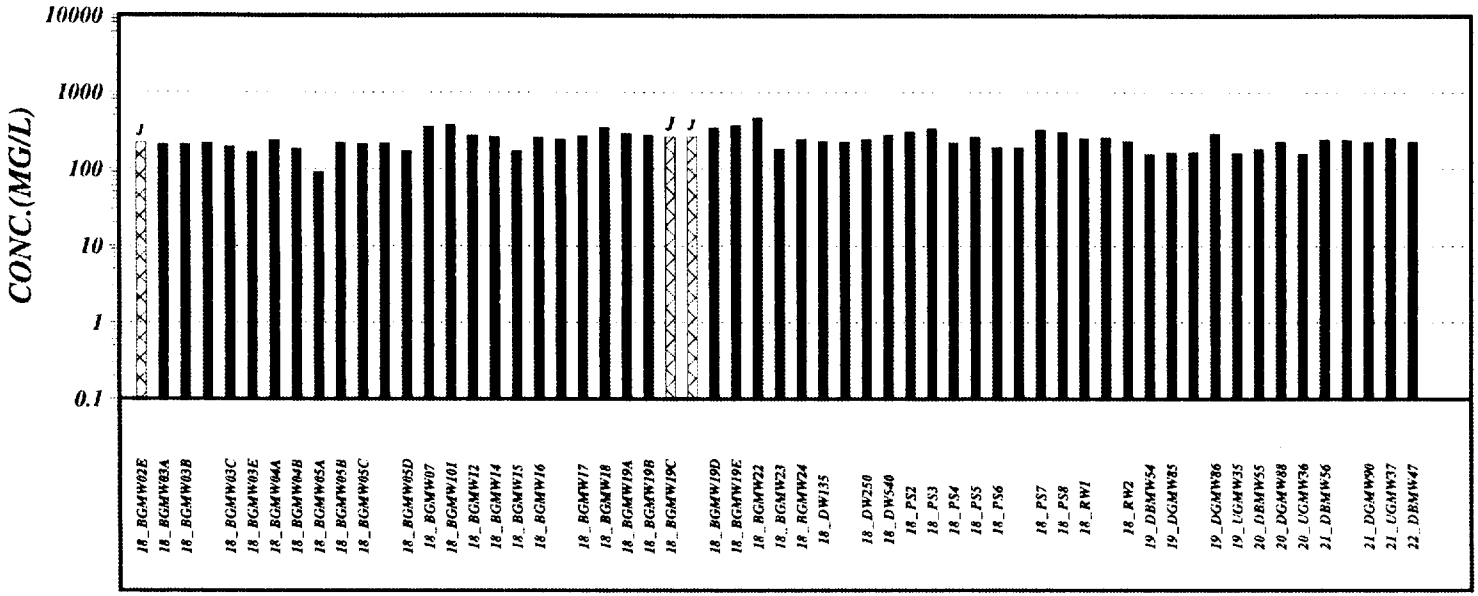
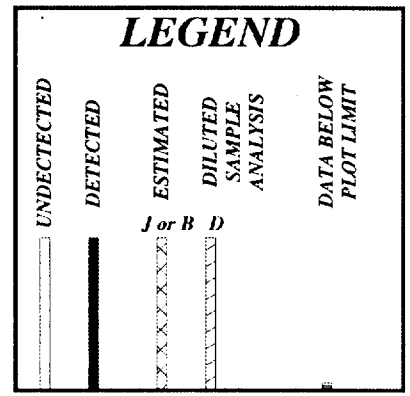
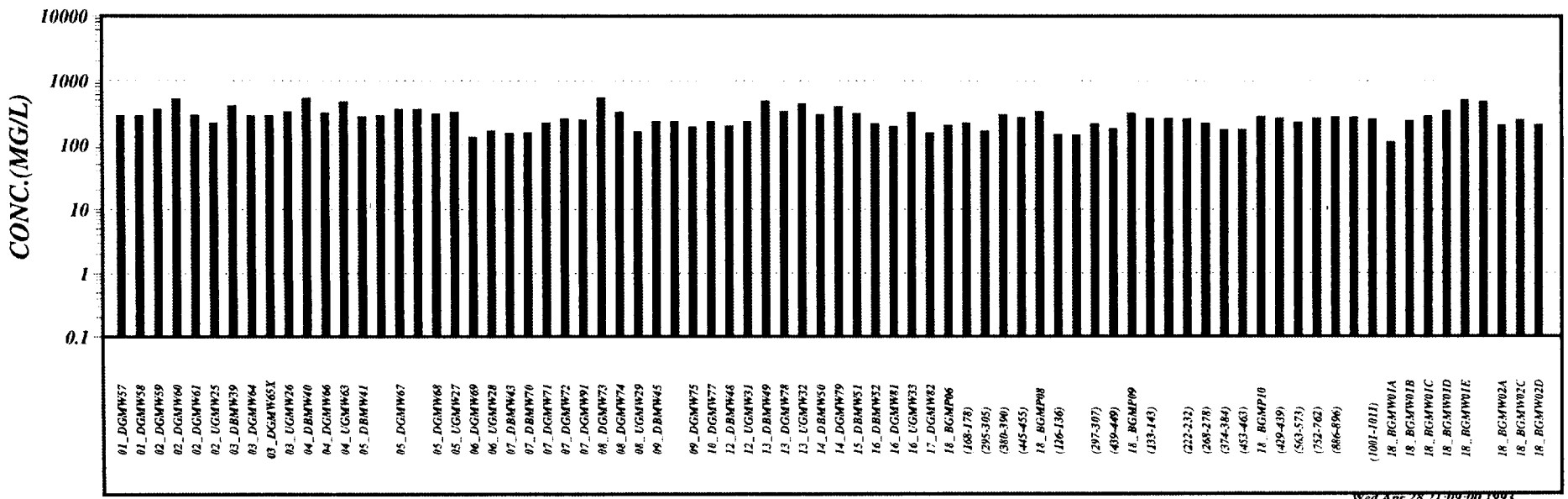
# MCAS EL TORO Phase 1 RI Technical Memorandum

## BICARBONATE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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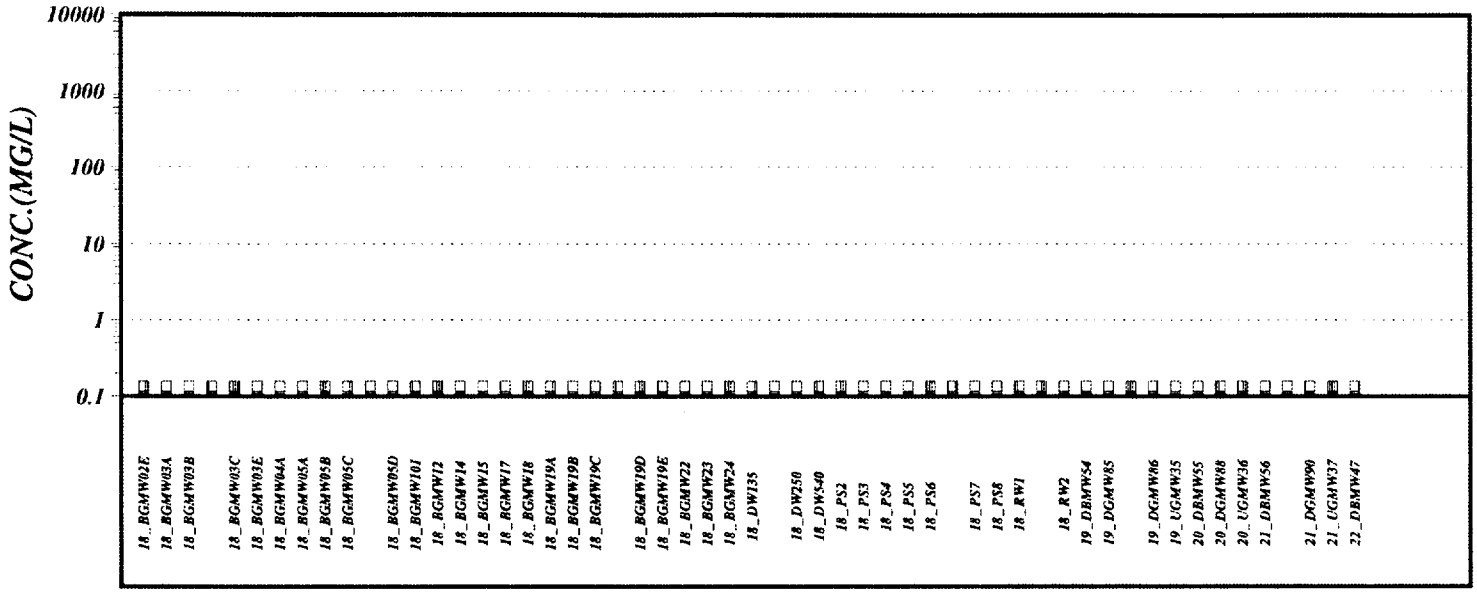
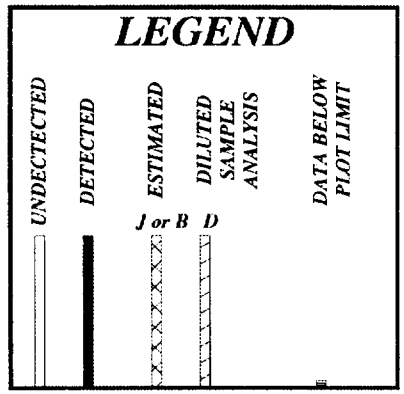
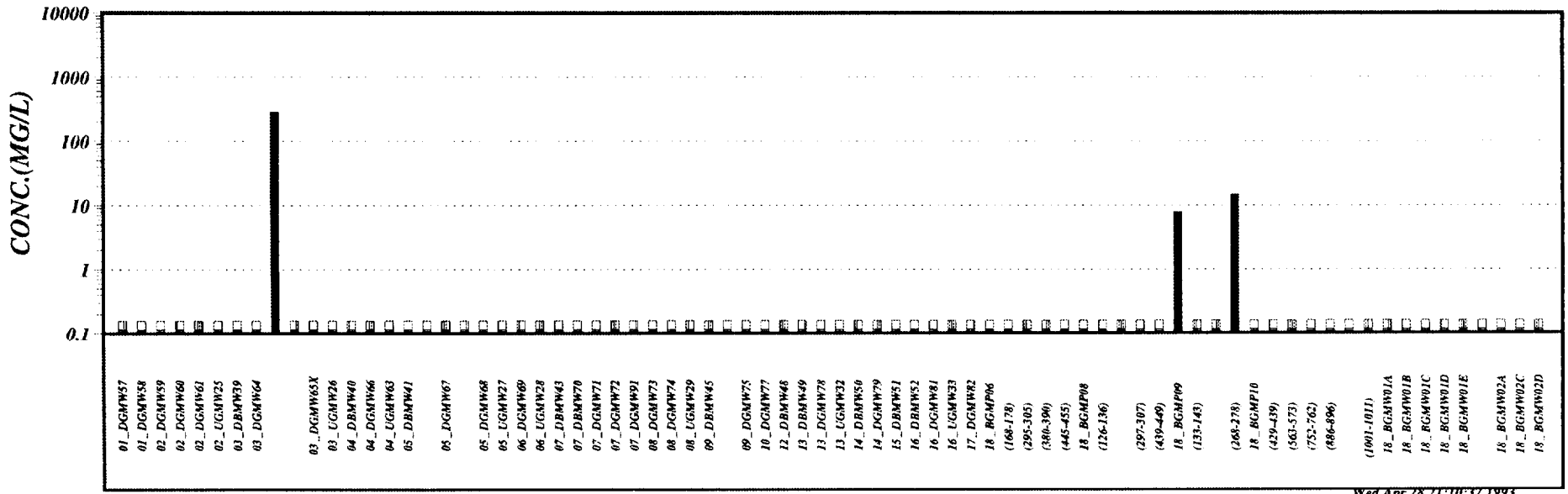
# MCAS EL TORO Phase 1 RI Technical Memorandum

## CARBONATE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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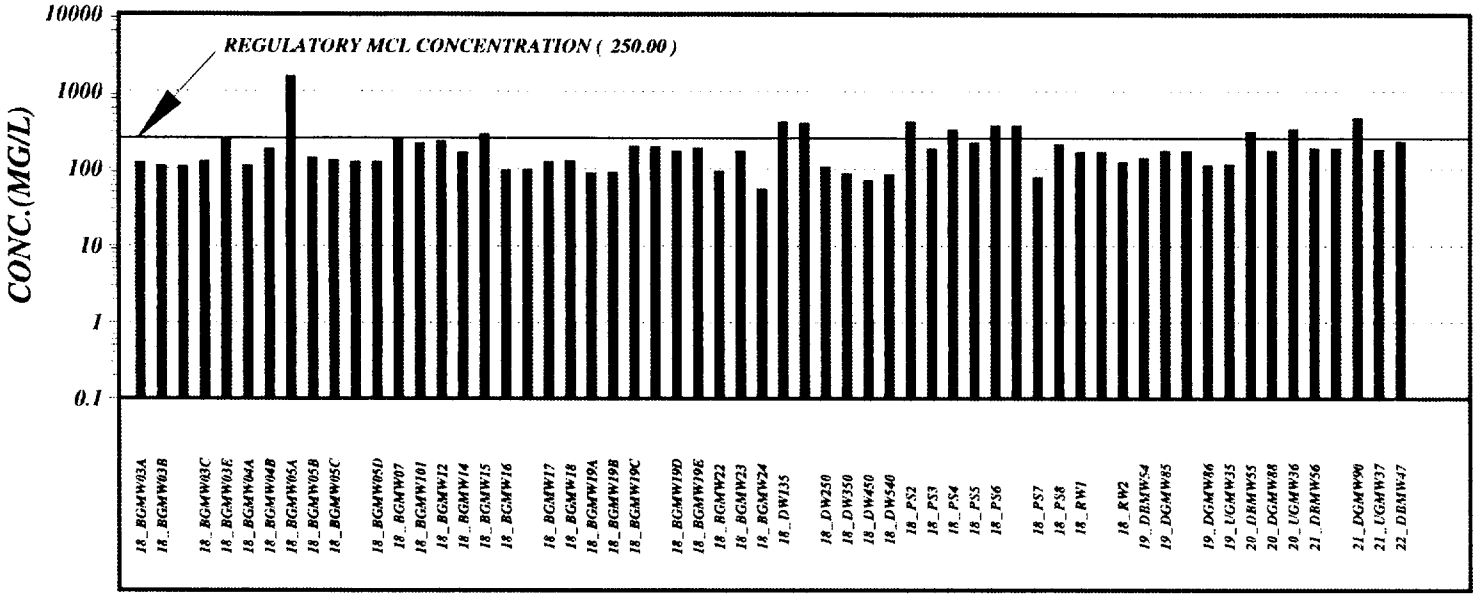
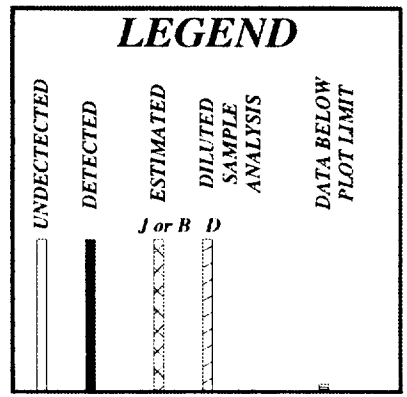
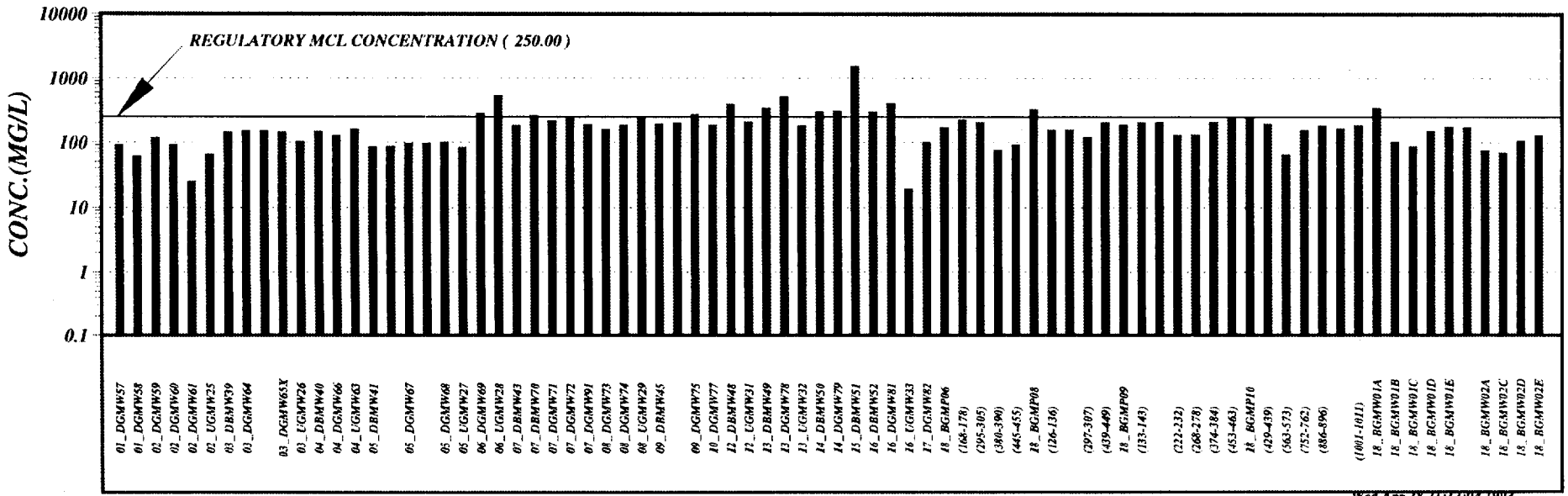
# MCAS EL TORO Phase 1 RI Technical Memorandum

## CHLORIDE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

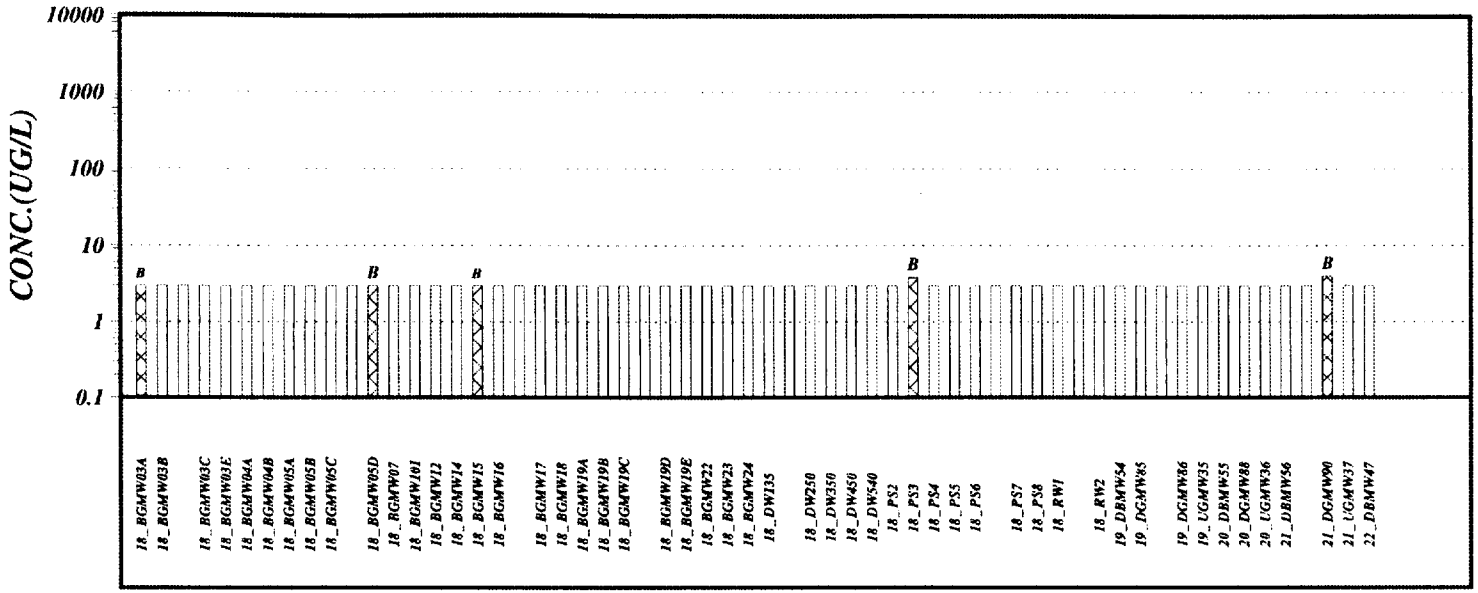


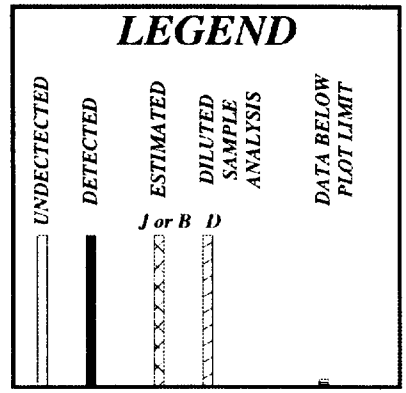



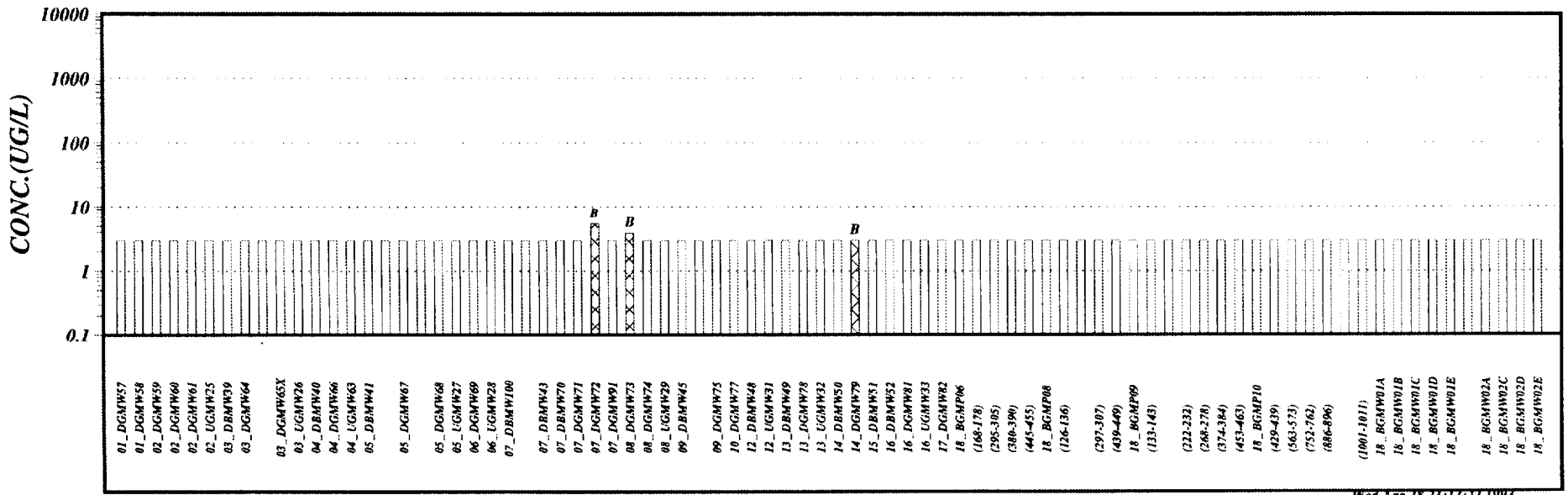



# MCAS EL TORO Phase 1 RI Technical Memorandum

## CYANIDE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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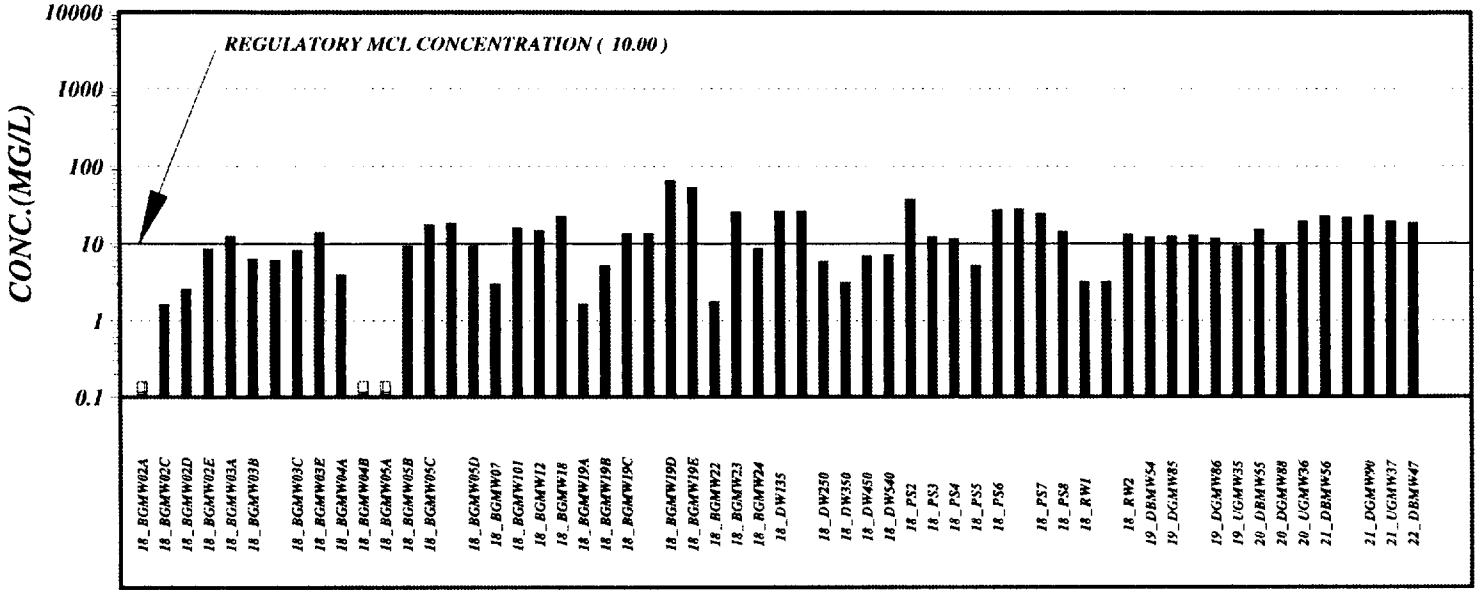
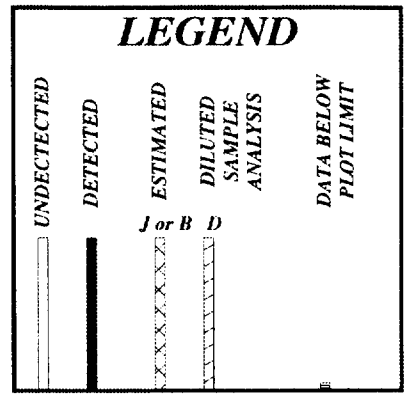
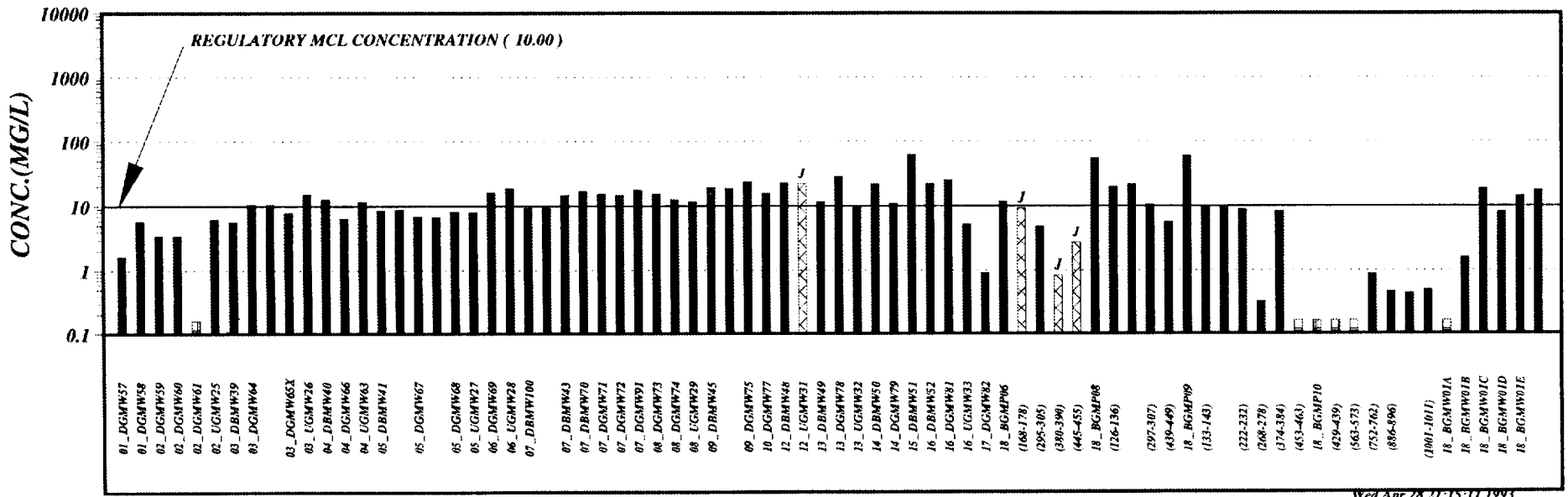
# MCAS EL TORO Phase 1 RI Technical Memorandum

## NITRATE/NITRITE-N Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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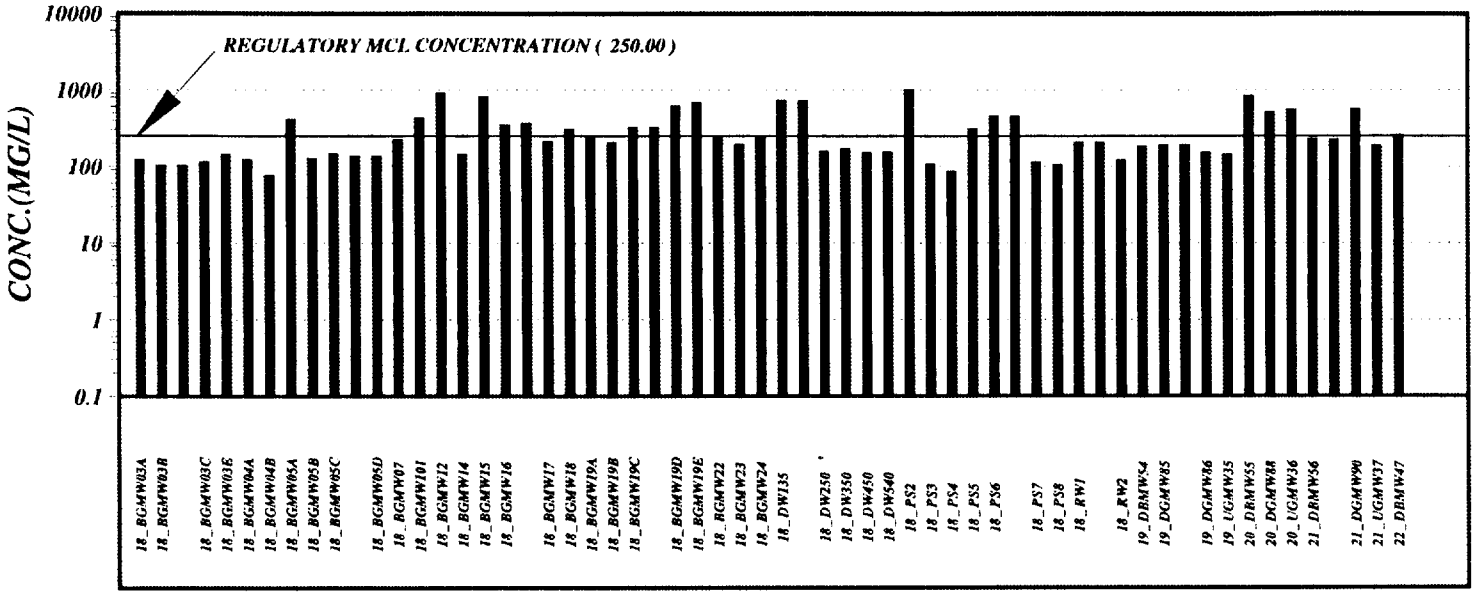
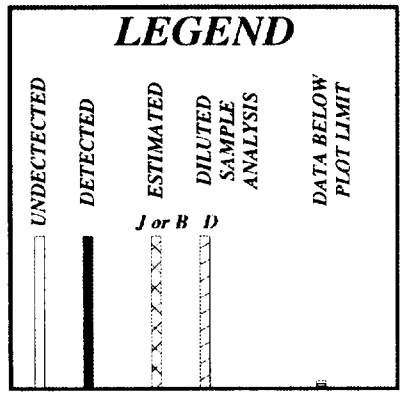
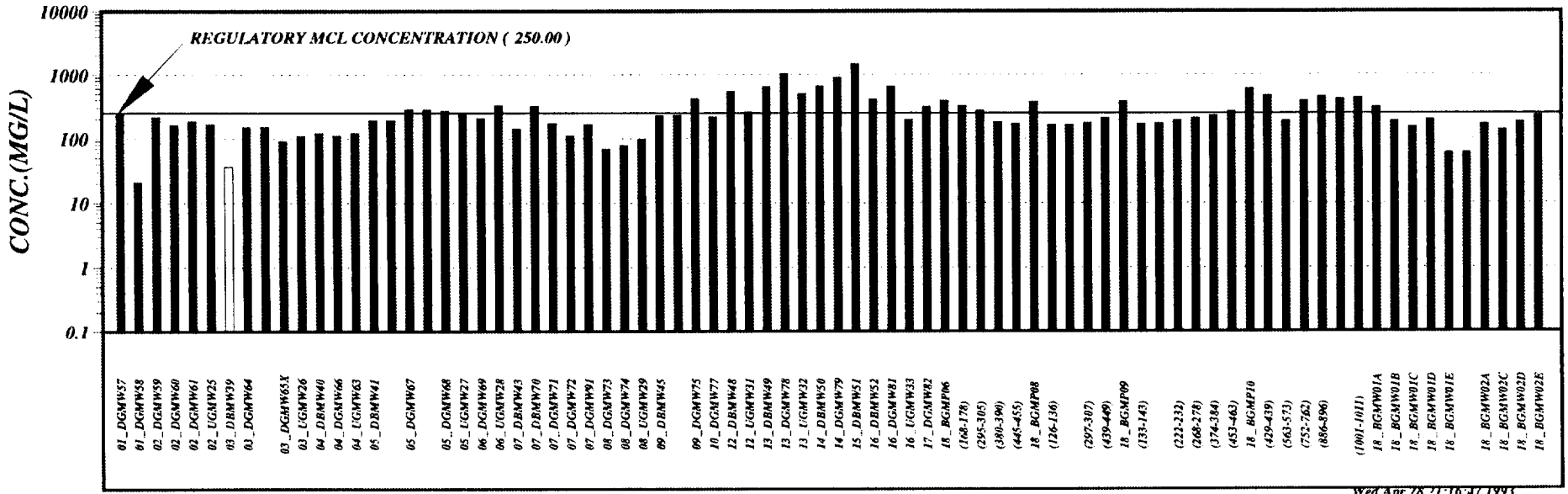
# MCAS EL TORO Phase 1 RI Technical Memorandum

## SULFATE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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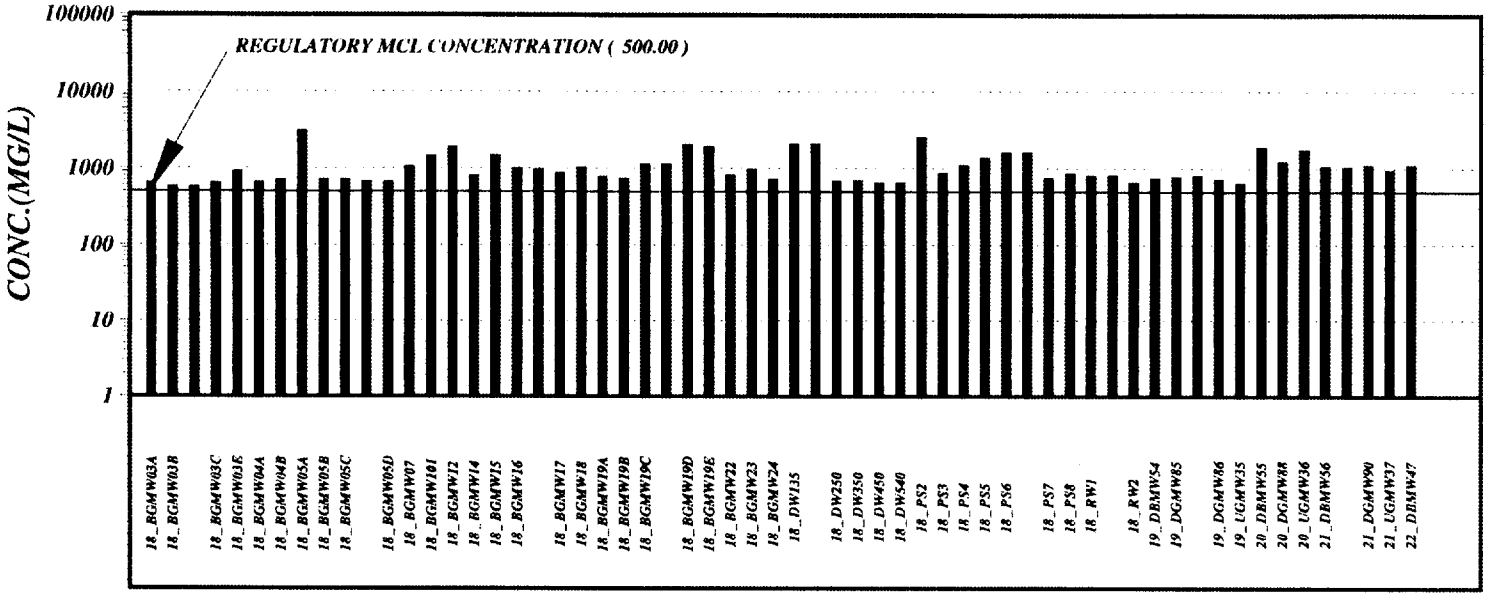
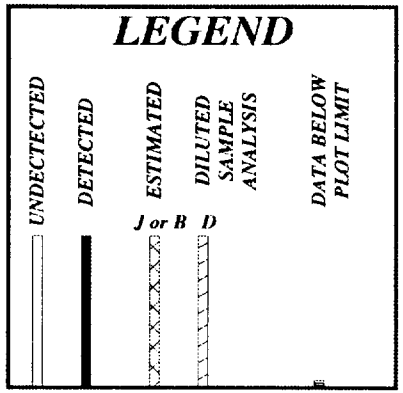
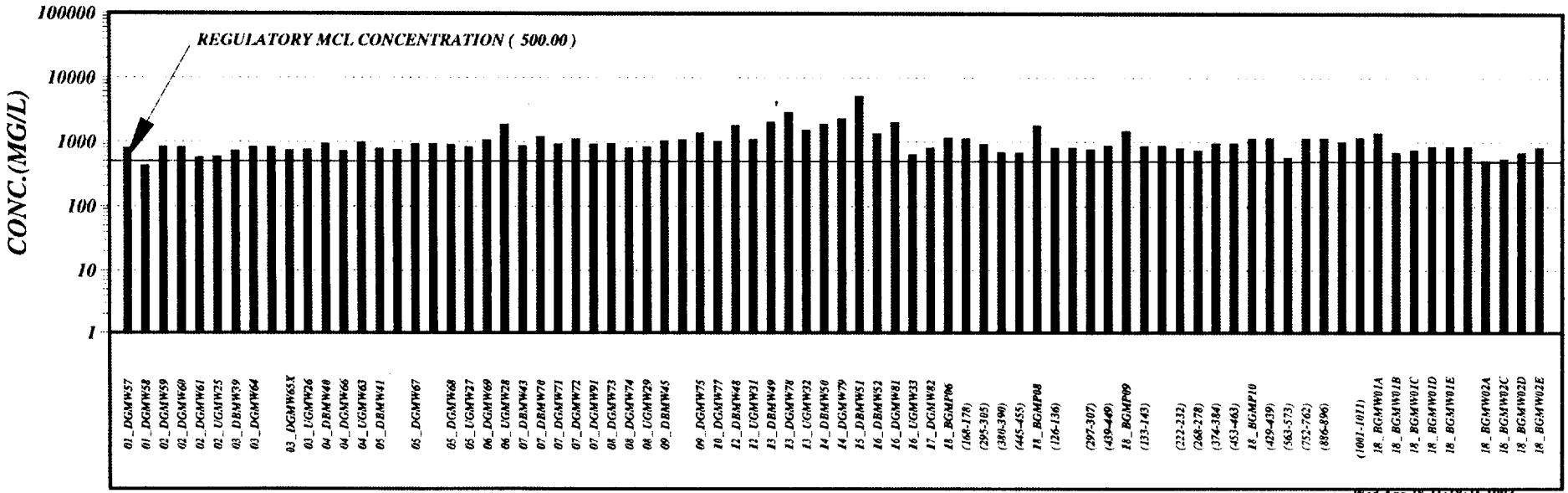
# MCAS EL TORO Phase 1 RI Technical Memorandum

## TOTAL DISSOLVED SOLIDS Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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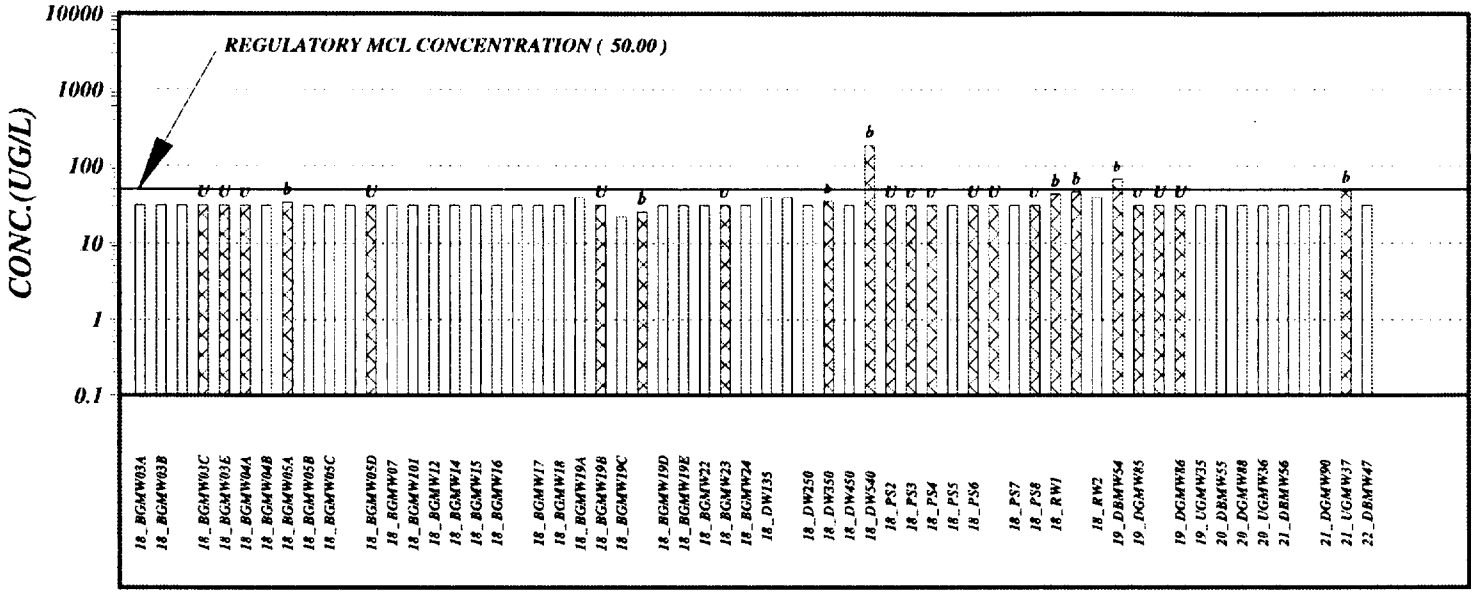
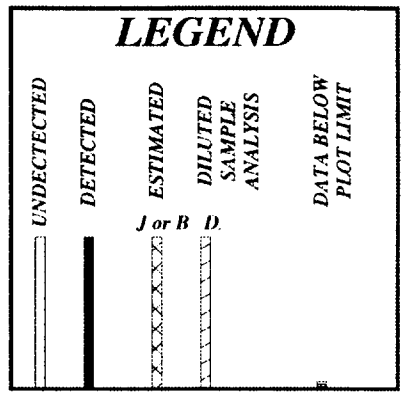
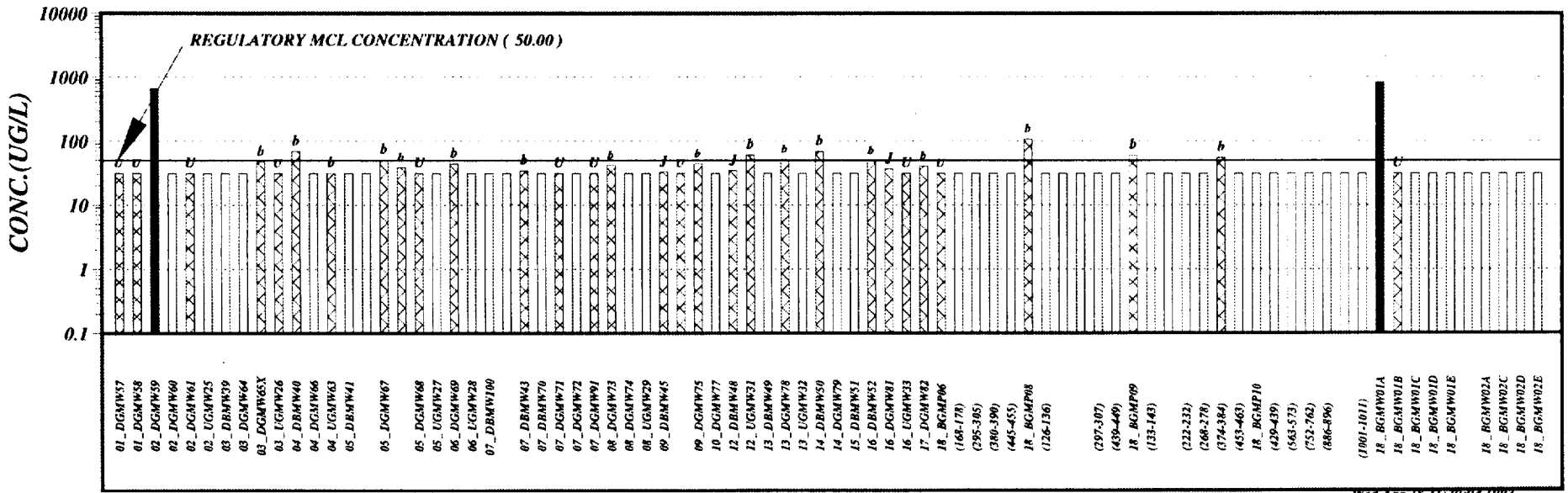
# MCAS EL TORO Phase 1 RI Technical Memorandum

## ALUMINUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



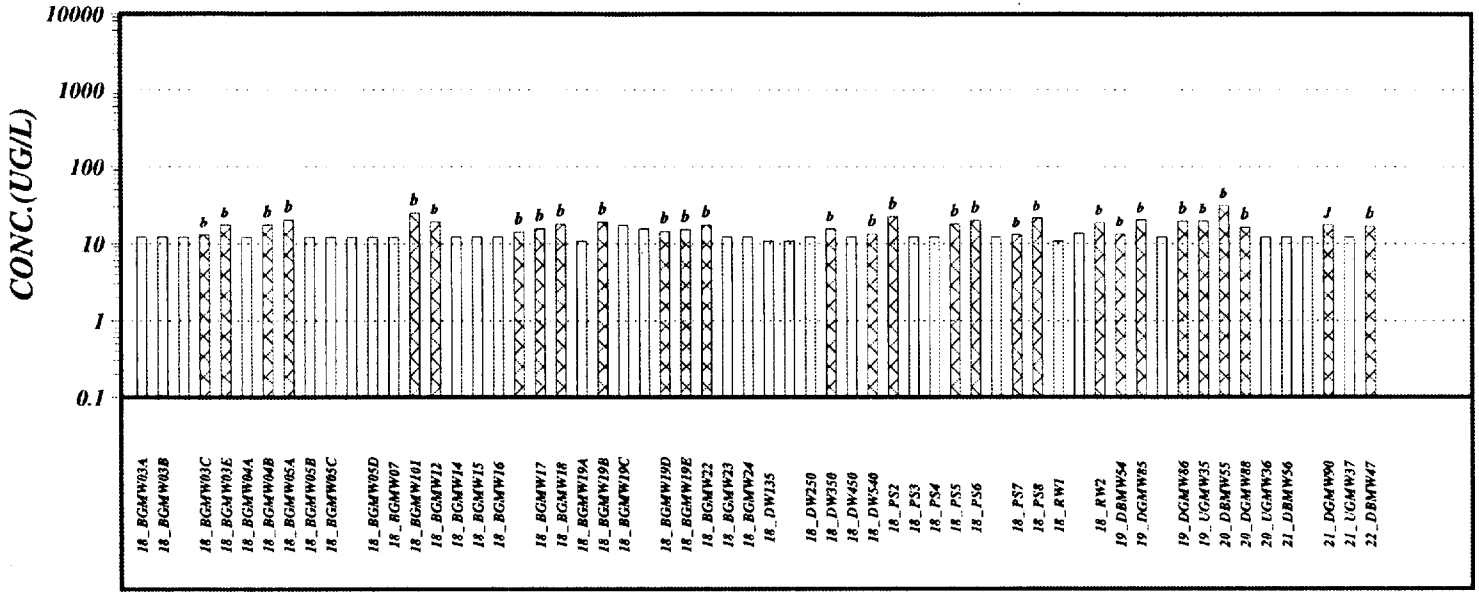



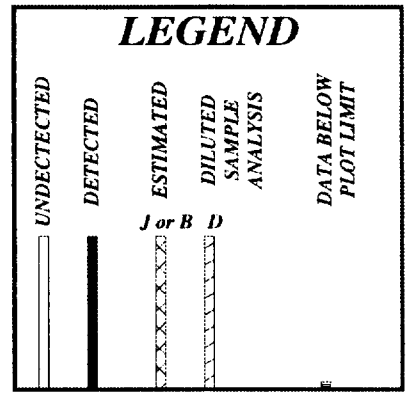



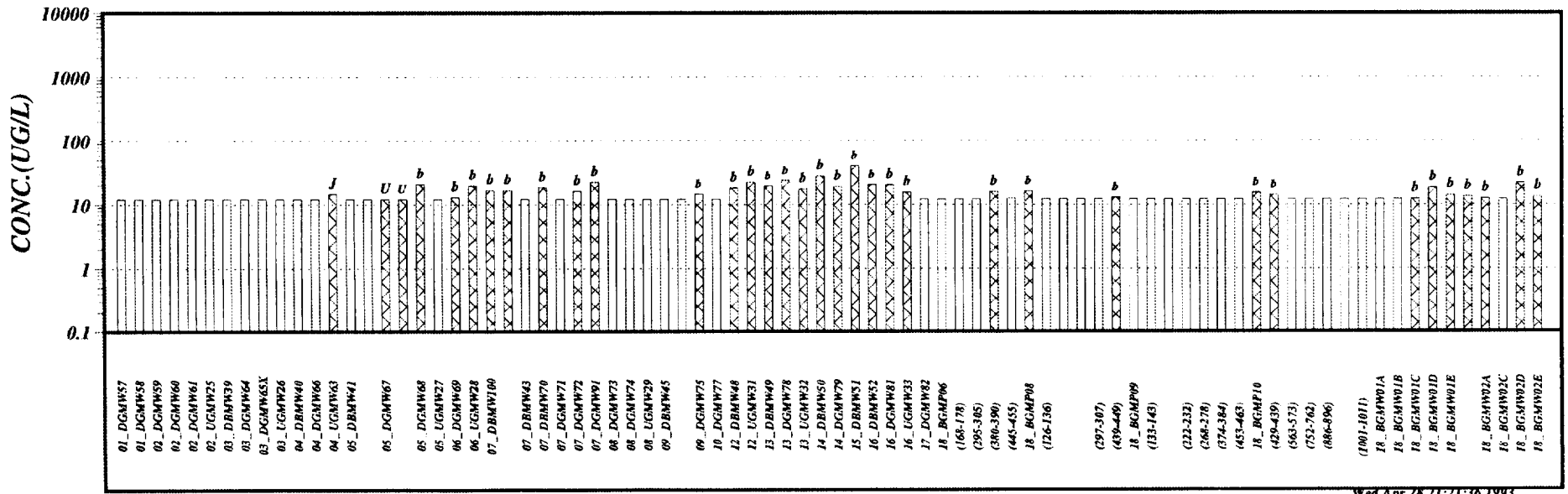

Wed Apr 28 21:20:04 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## ANTIMONY Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



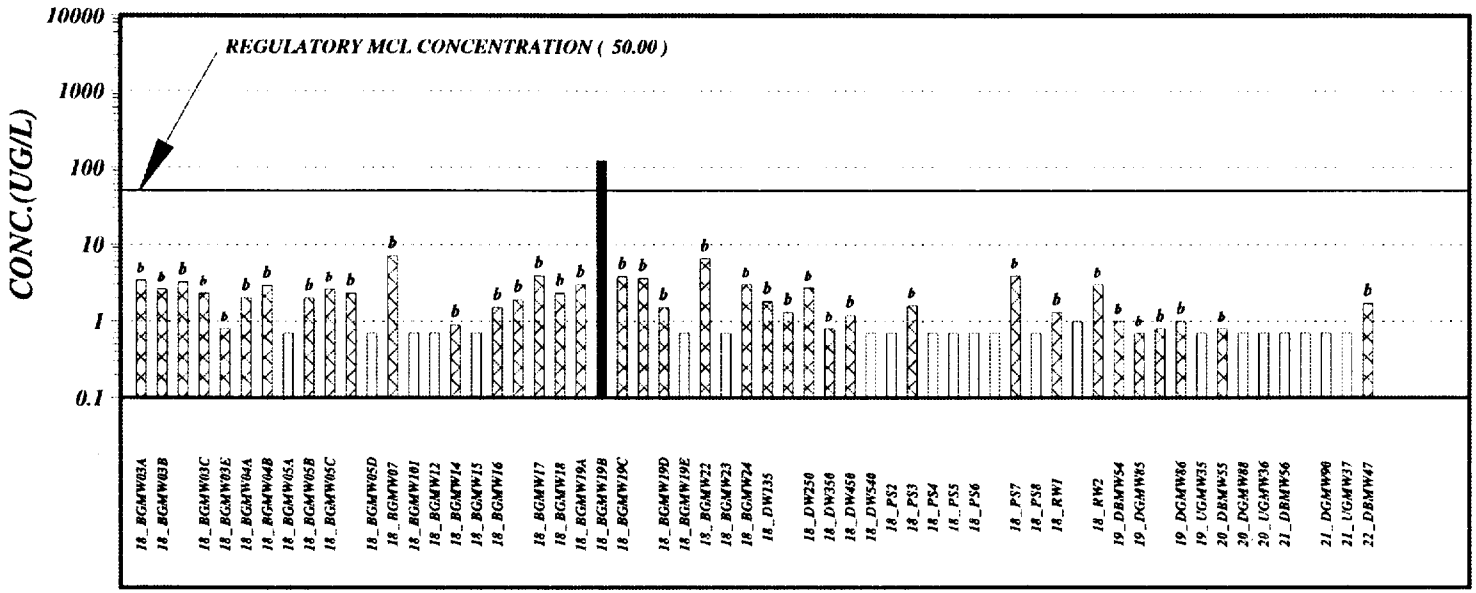



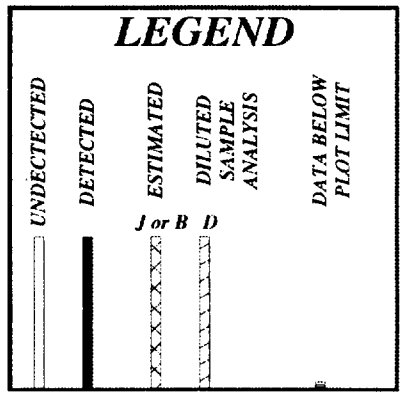



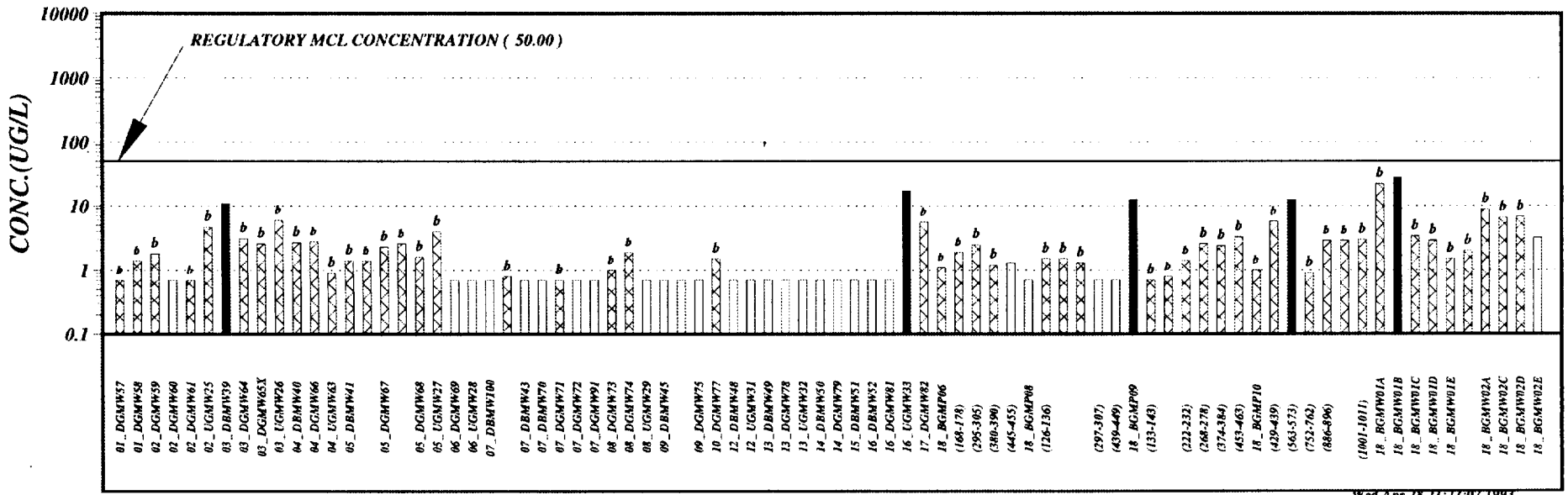

Wed Apr 28 21:21:36 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## ARSENIC Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



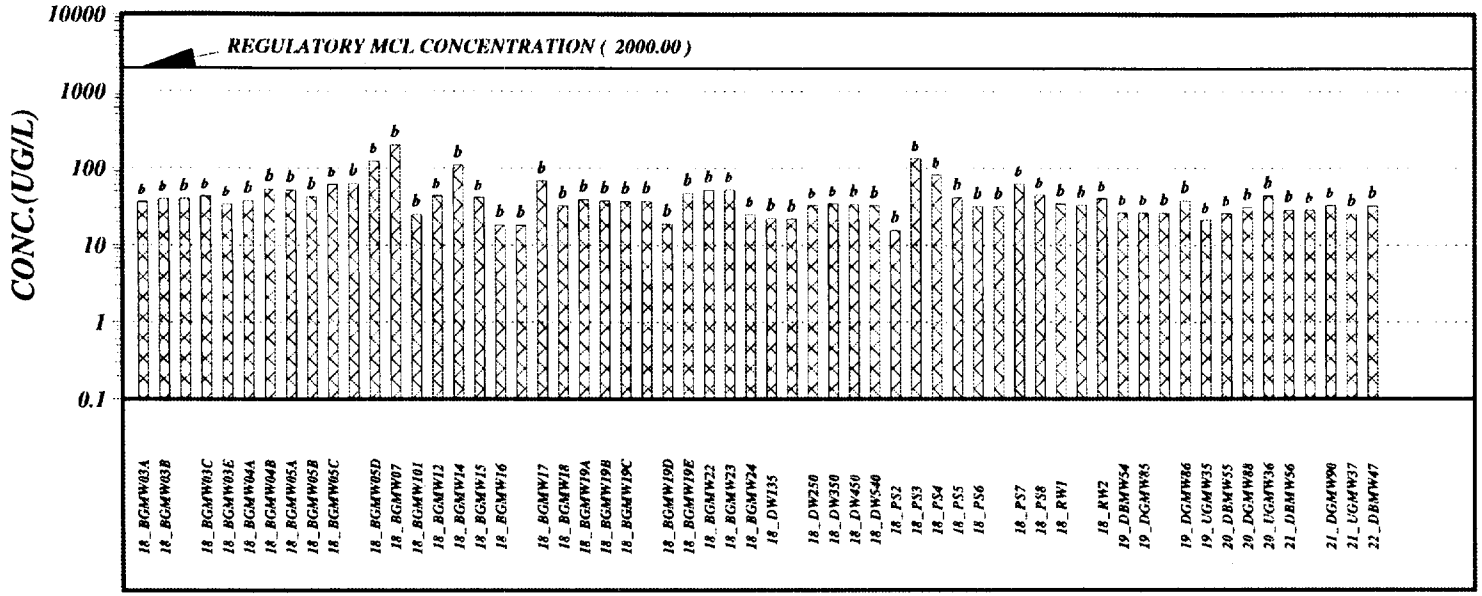



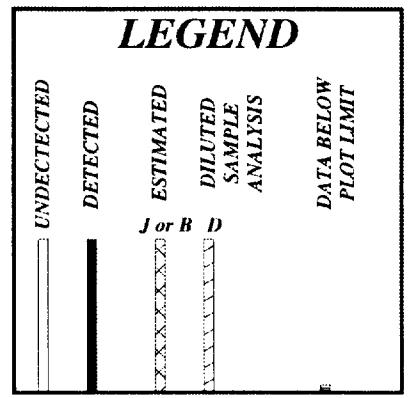



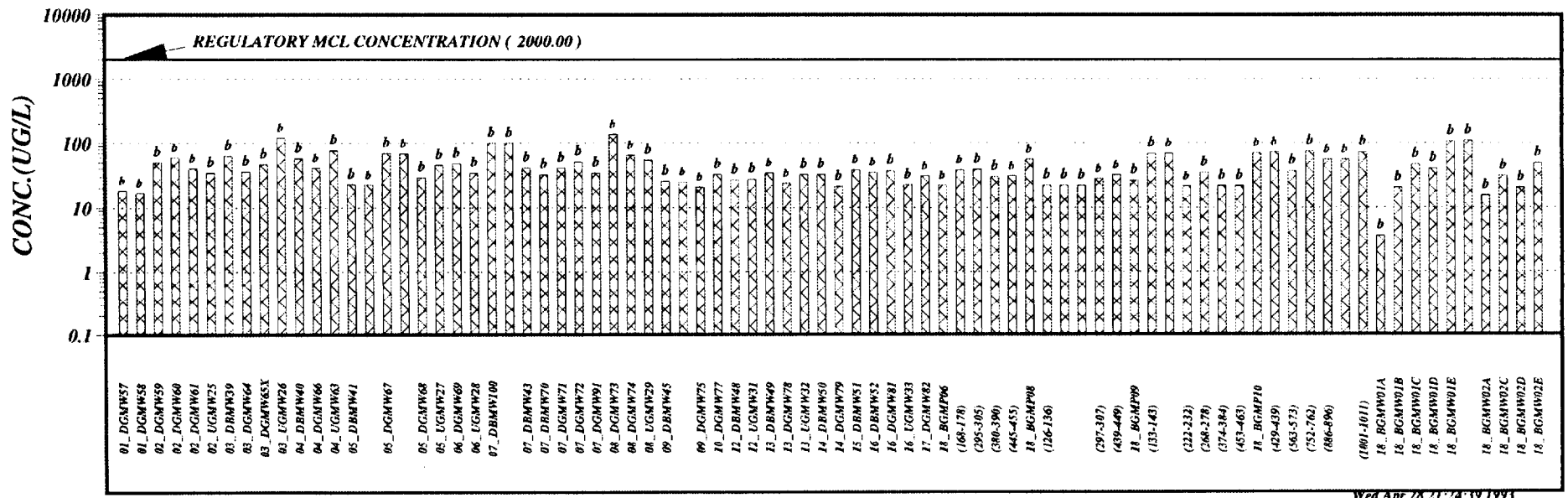

Wed Apr 28 21:23:07 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## BARIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



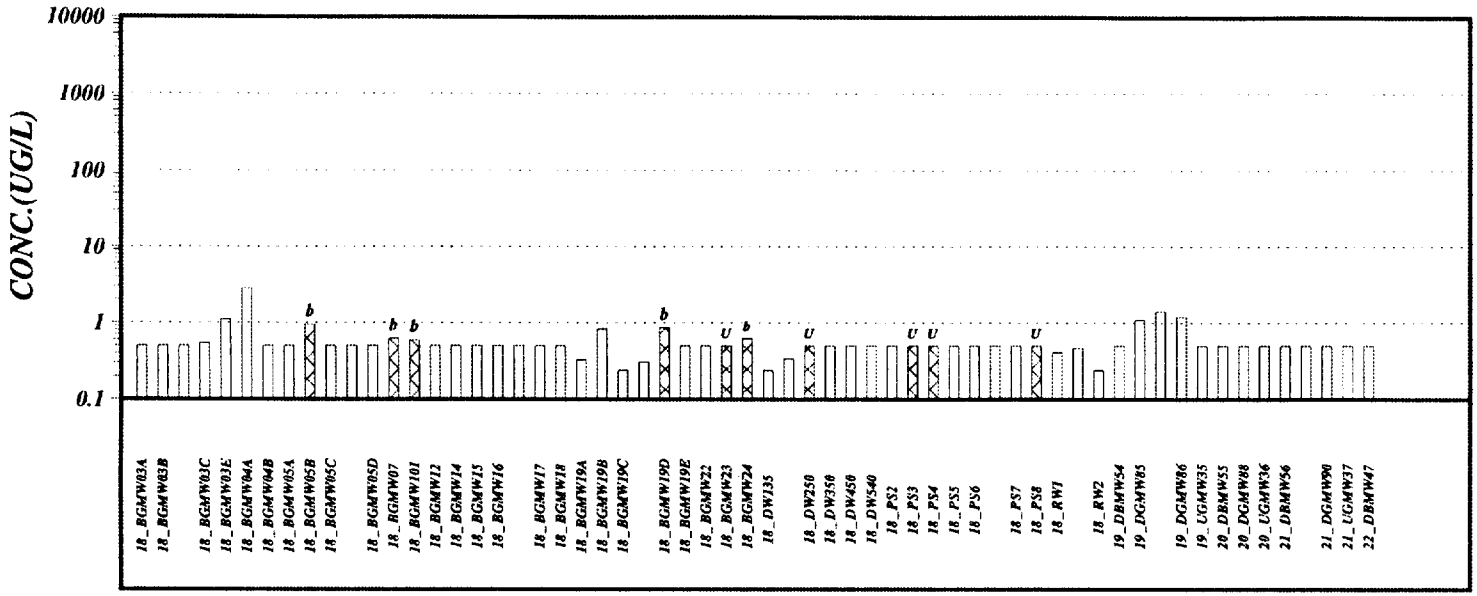



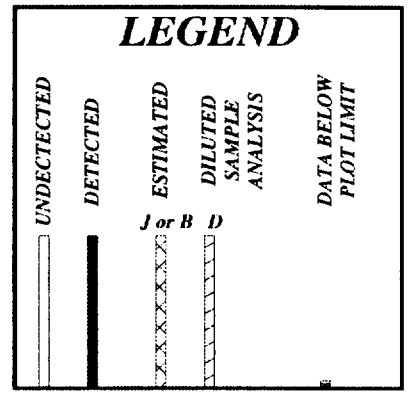



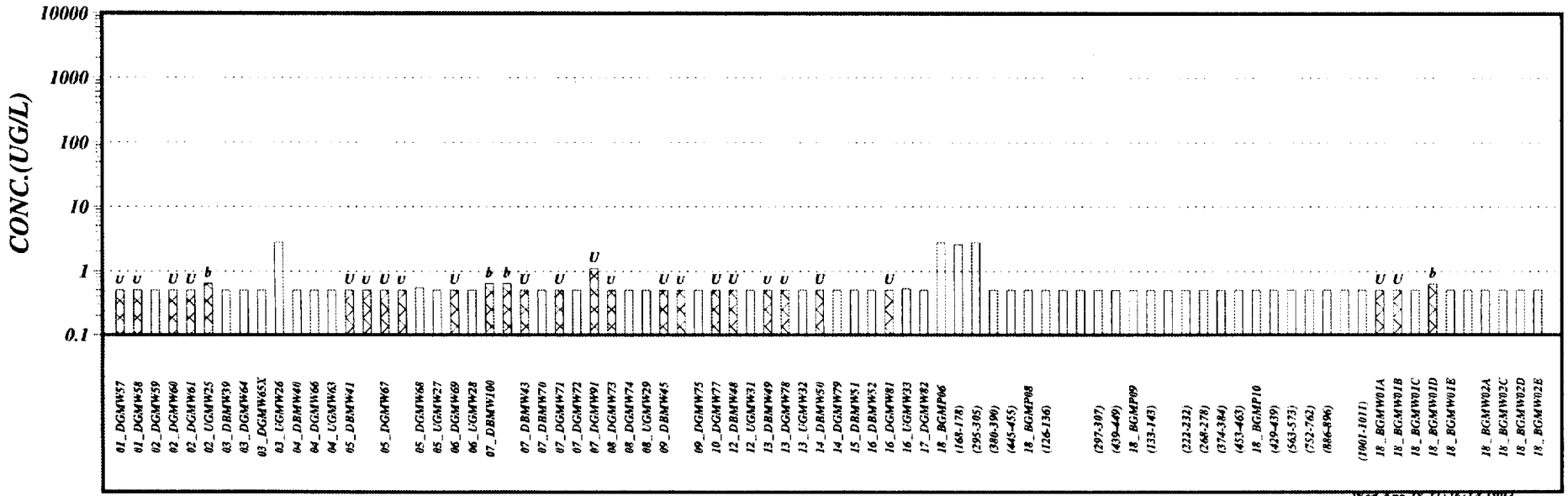

Wed Apr 28 21:24:39 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## BERYLLIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



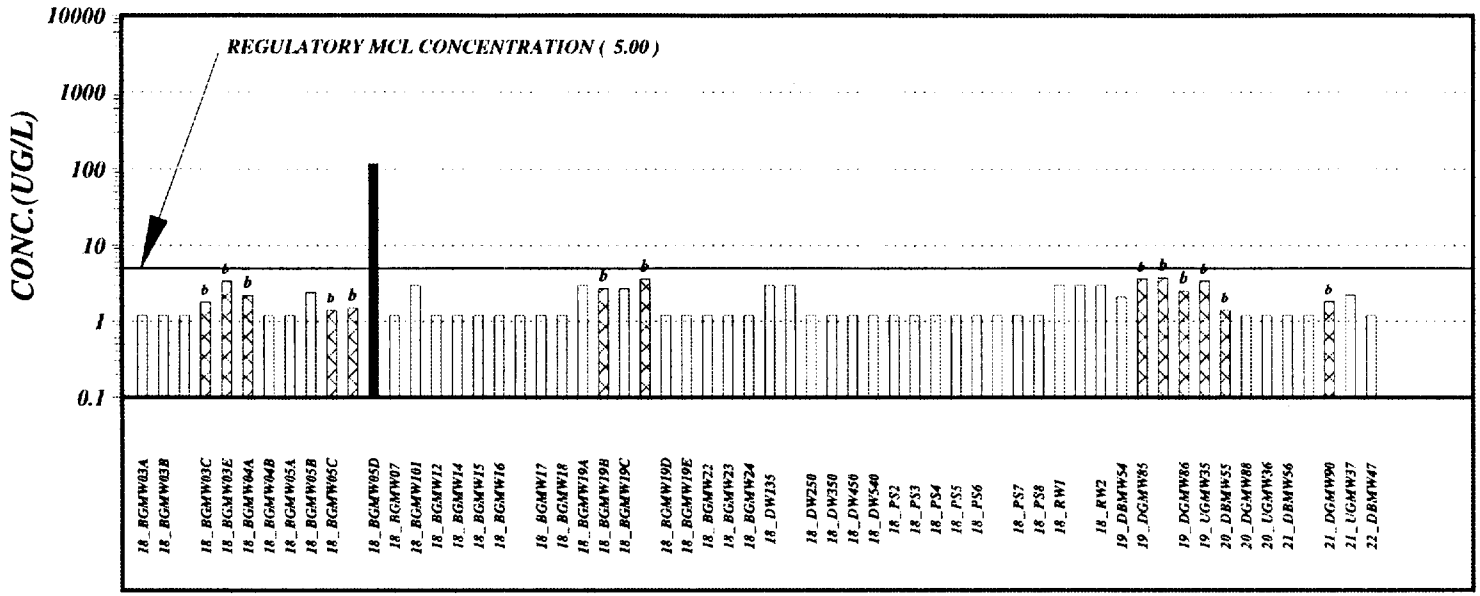



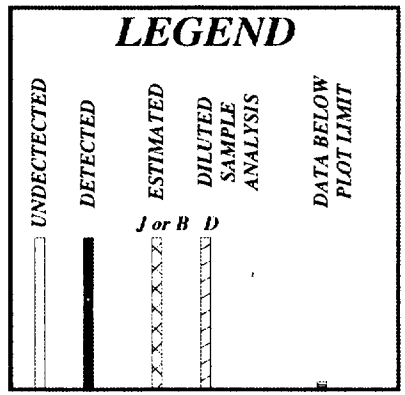



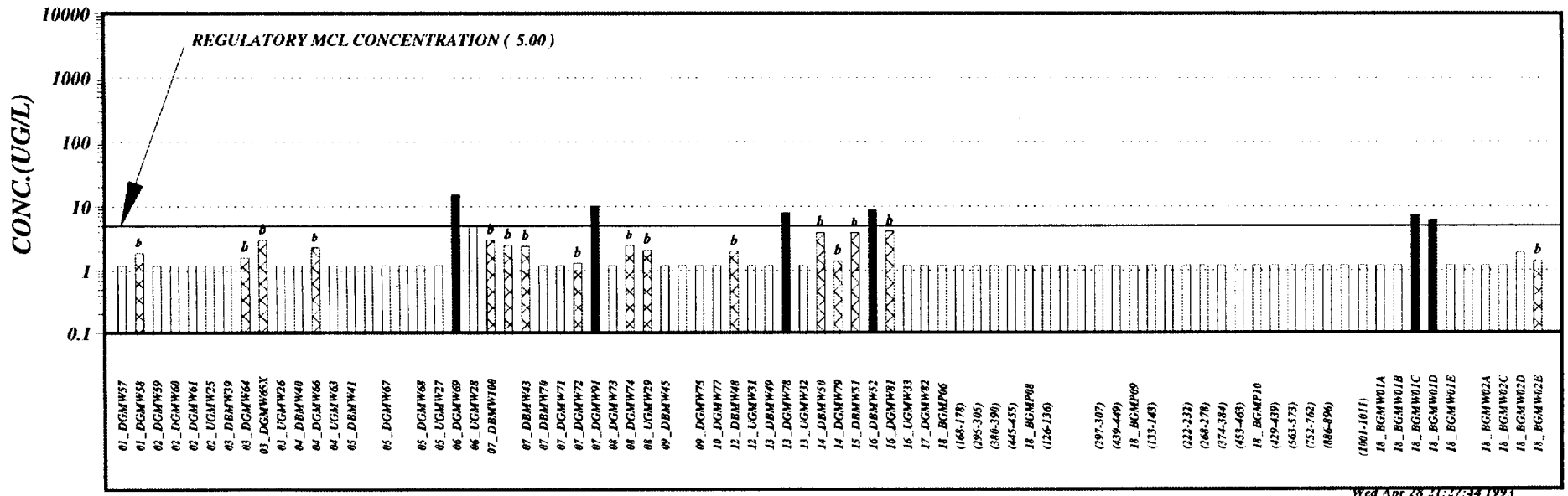

Wed Apr 28 21:26:14 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## CADMIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

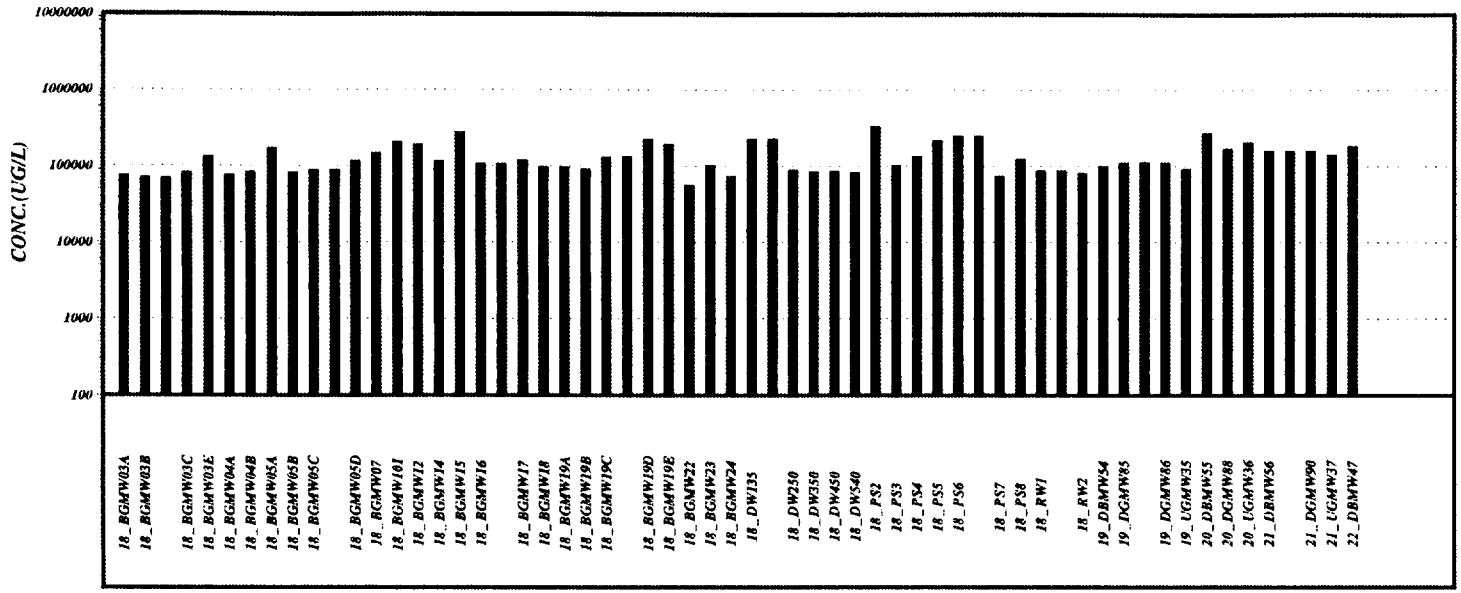


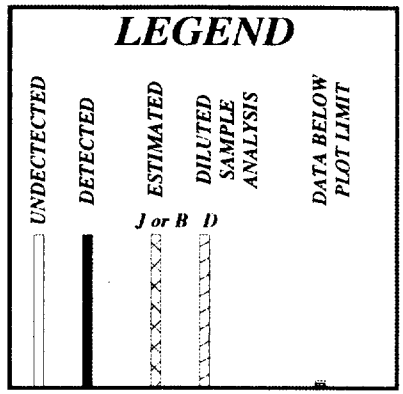



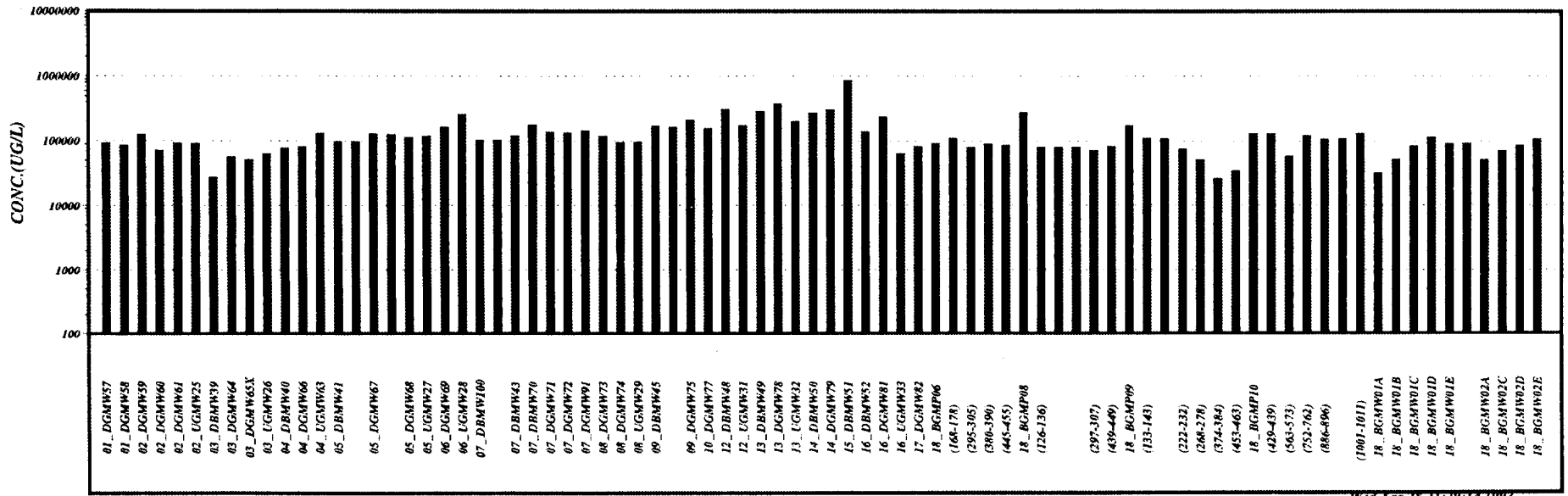



# MCAS EL TORO Phase 1 RI Technical Memorandum

## CALCIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



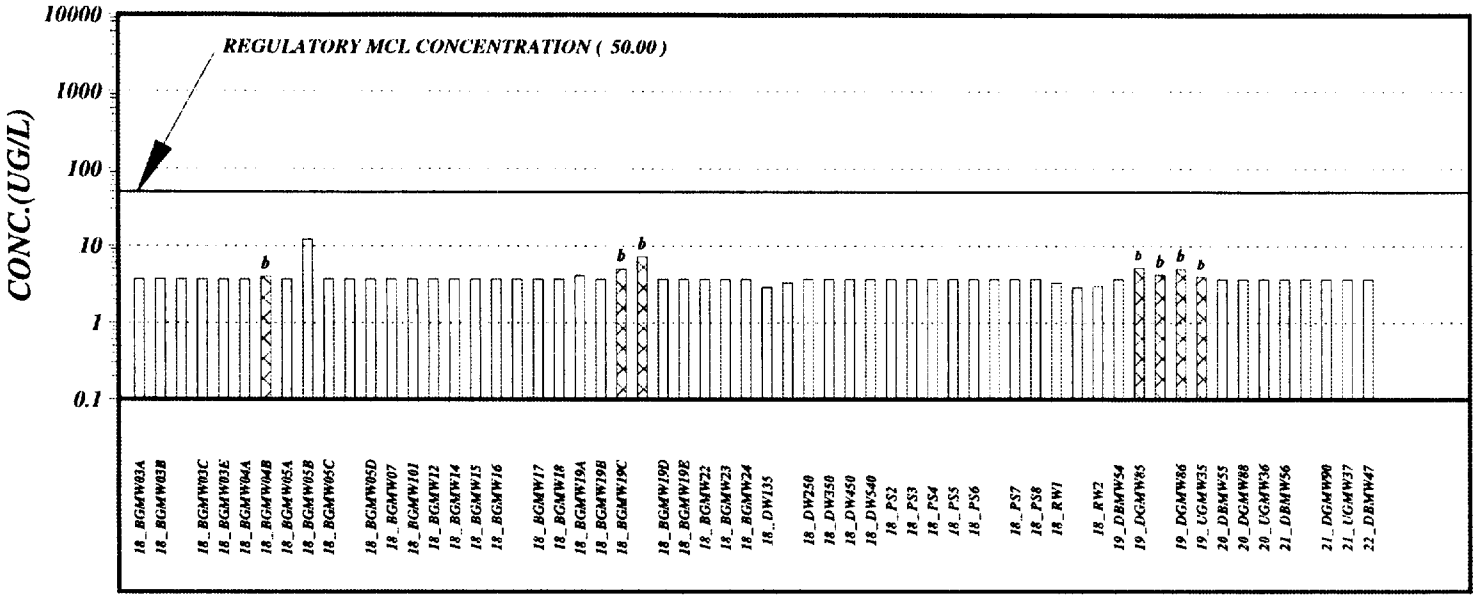



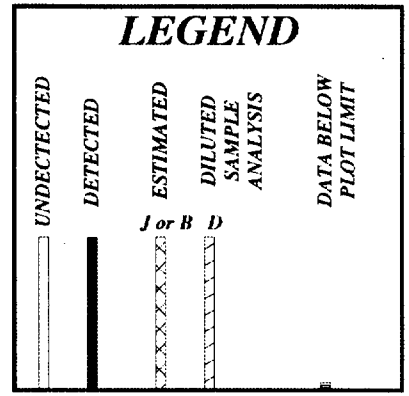



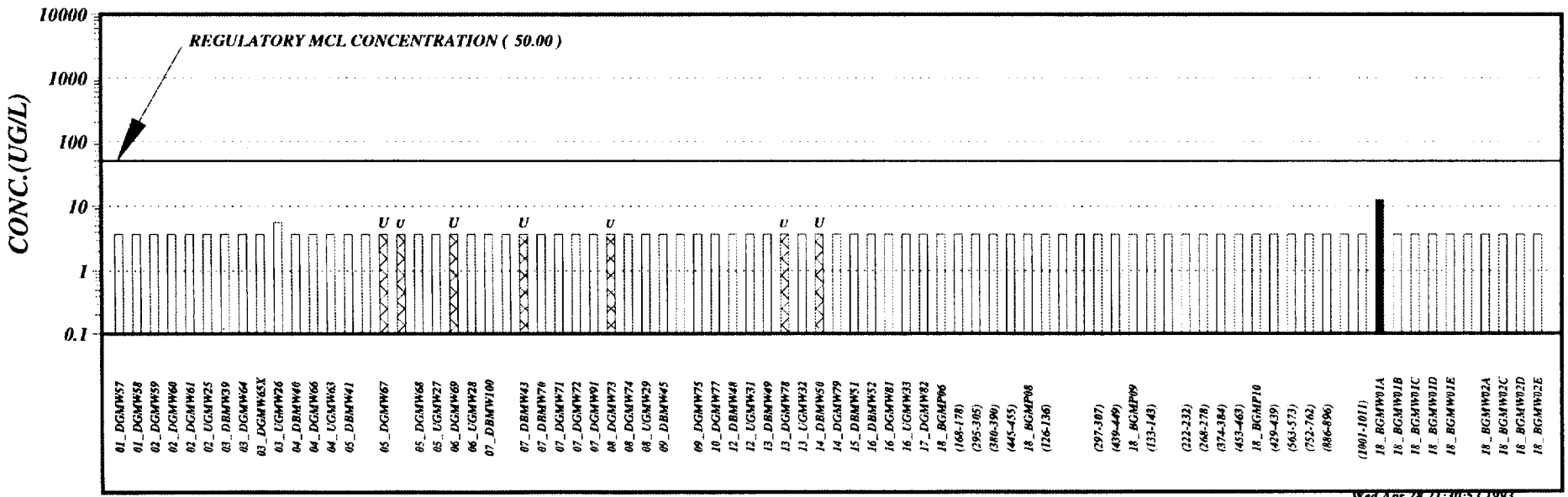

Wed Apr 28 21:29:14 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## CHROMIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



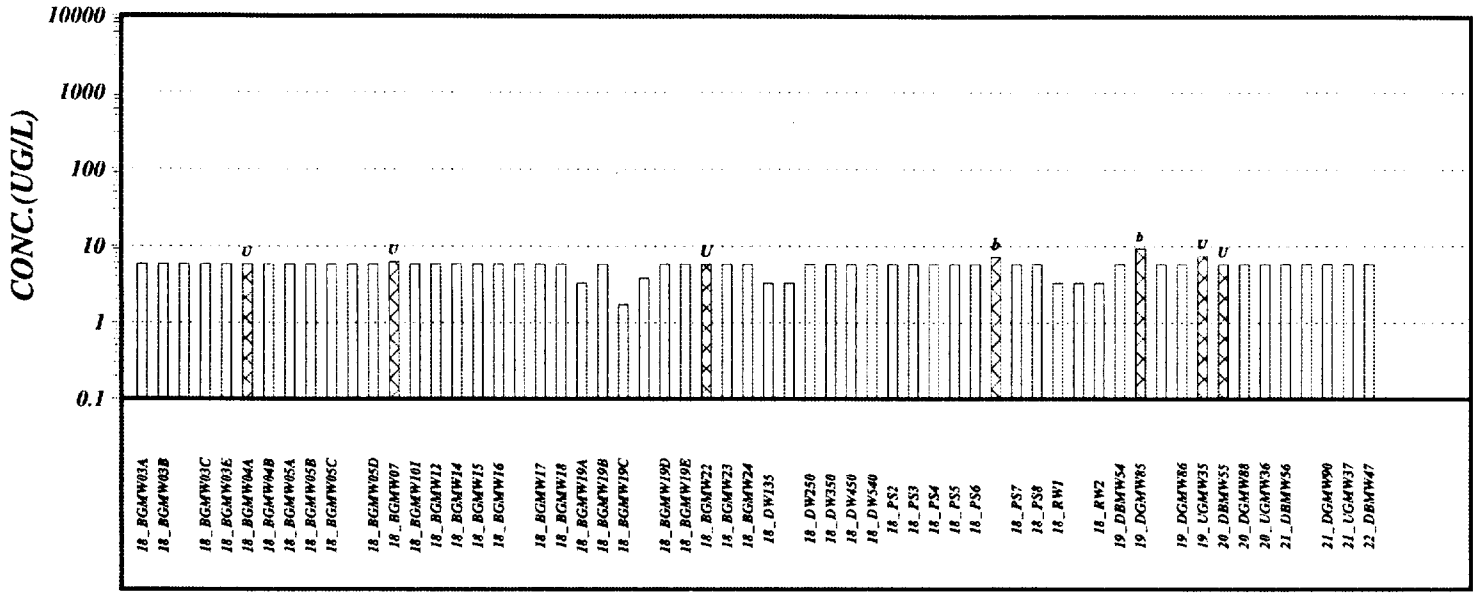



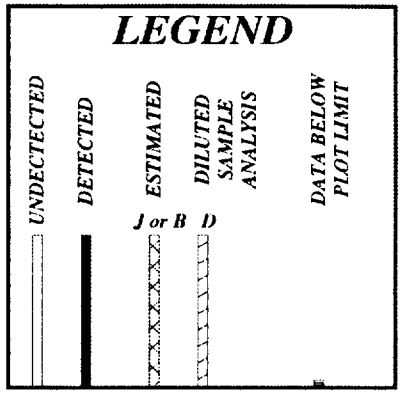



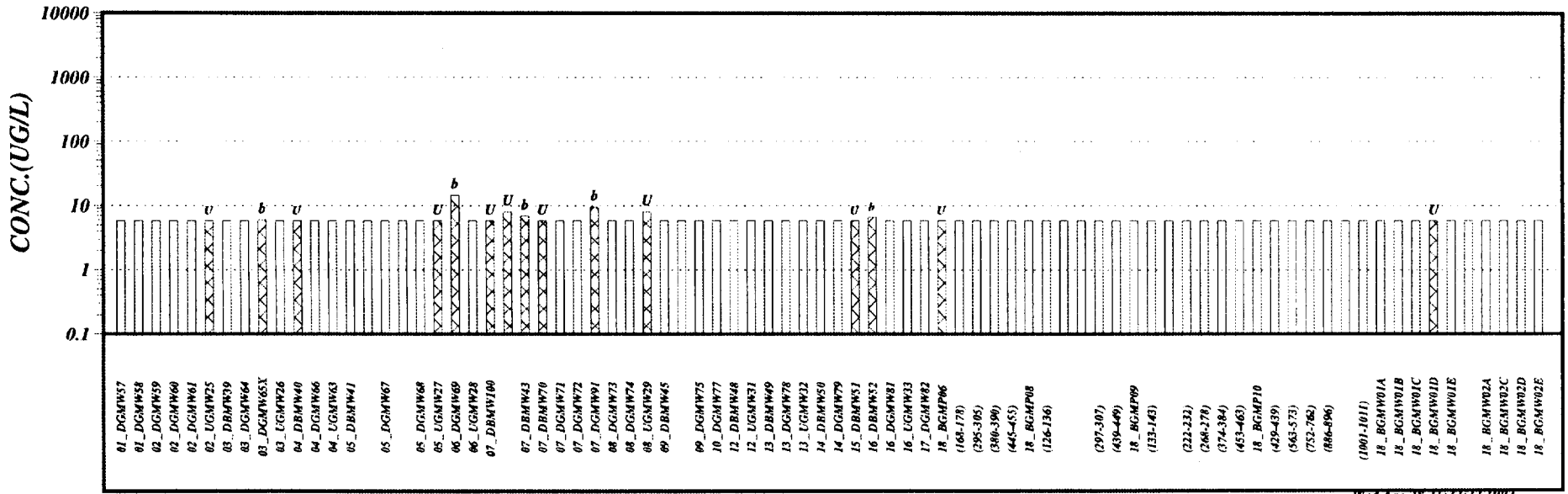

Wed Apr 28 21:30:53 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## COBALT Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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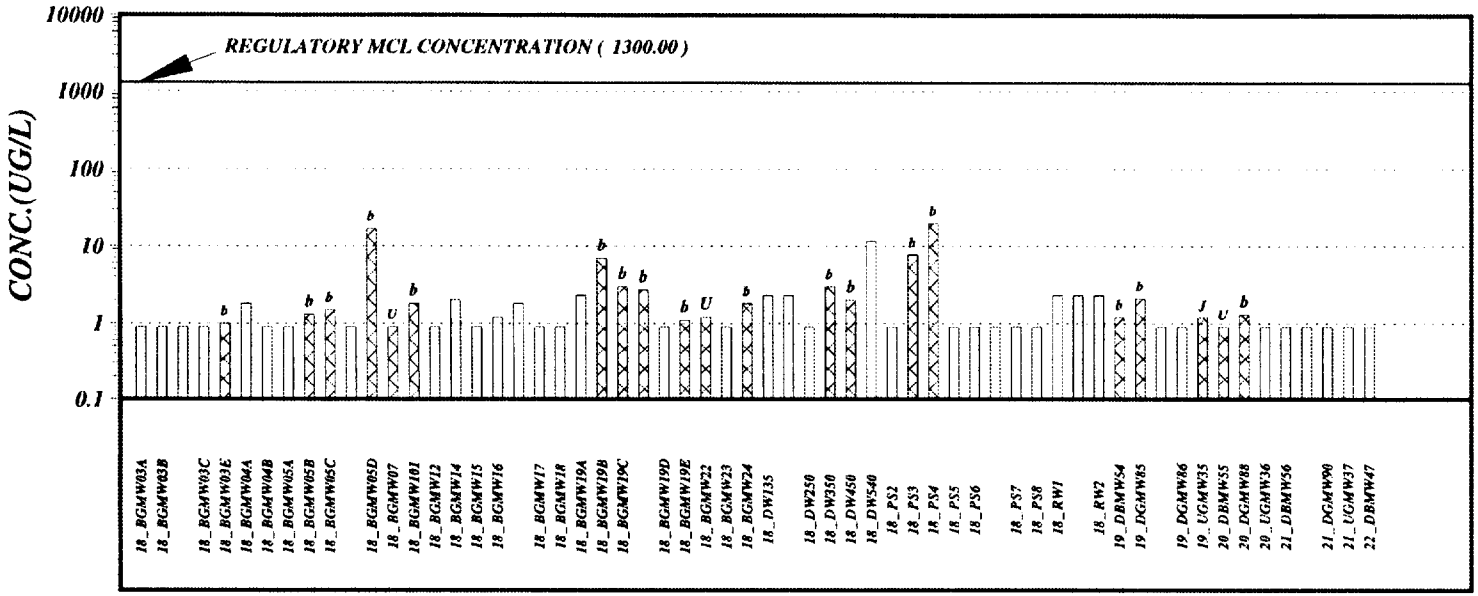
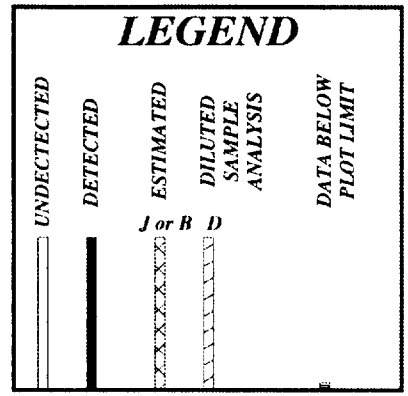
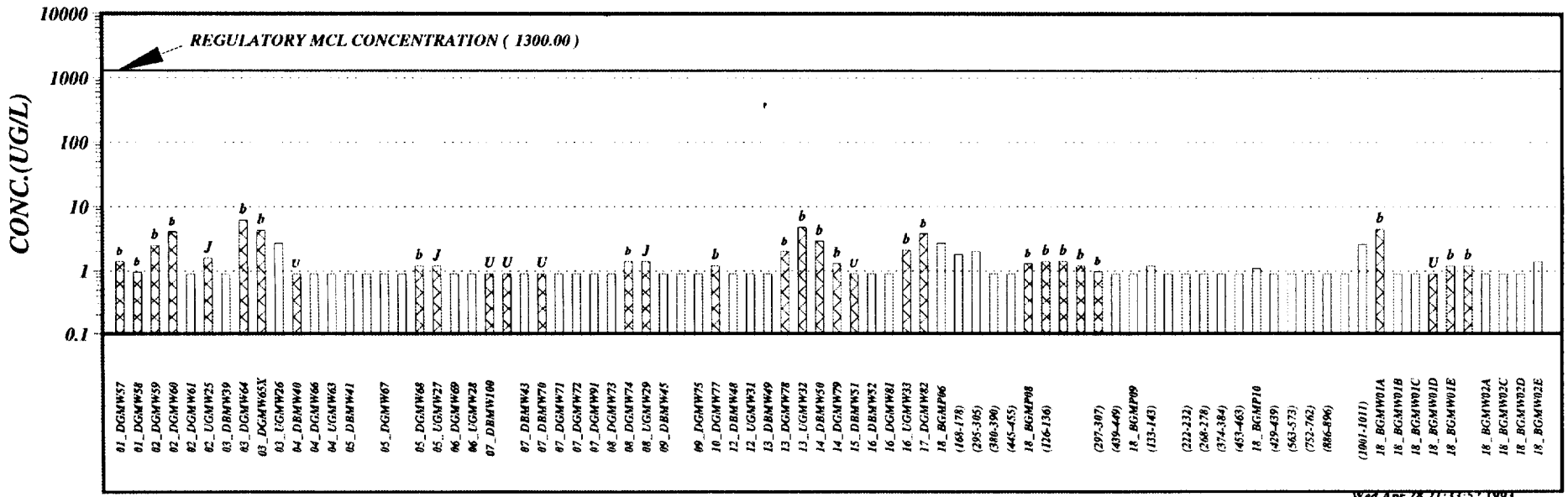
# MCAS EL TORO Phase 1 RI Technical Memorandum

## COPPER Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



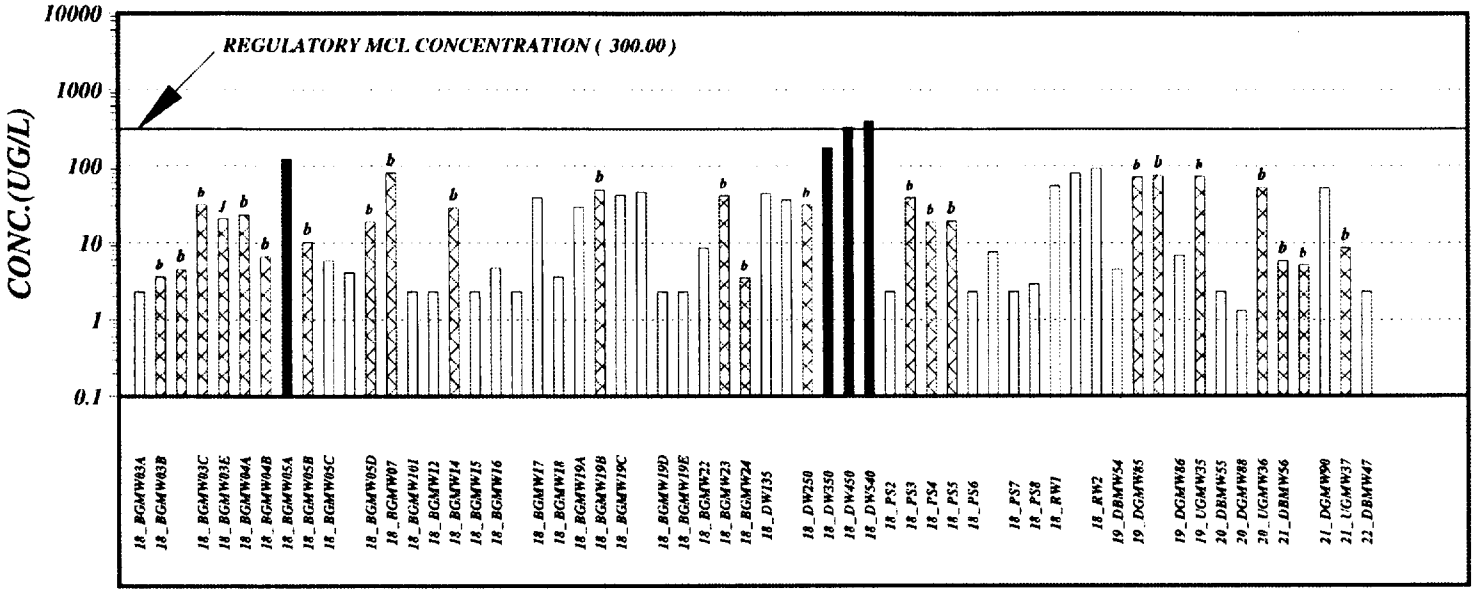



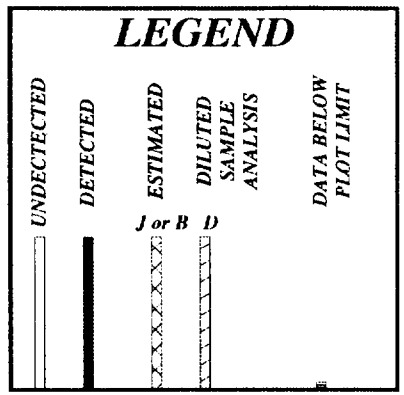



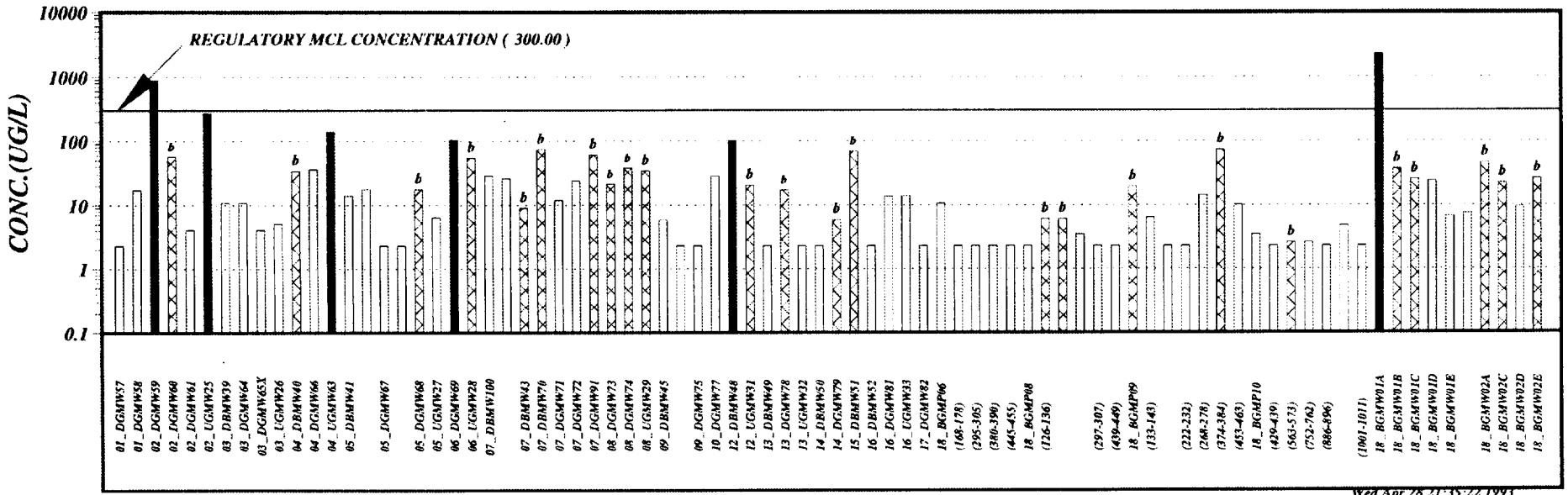

Wed Apr 28 21:33:52 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## IRON Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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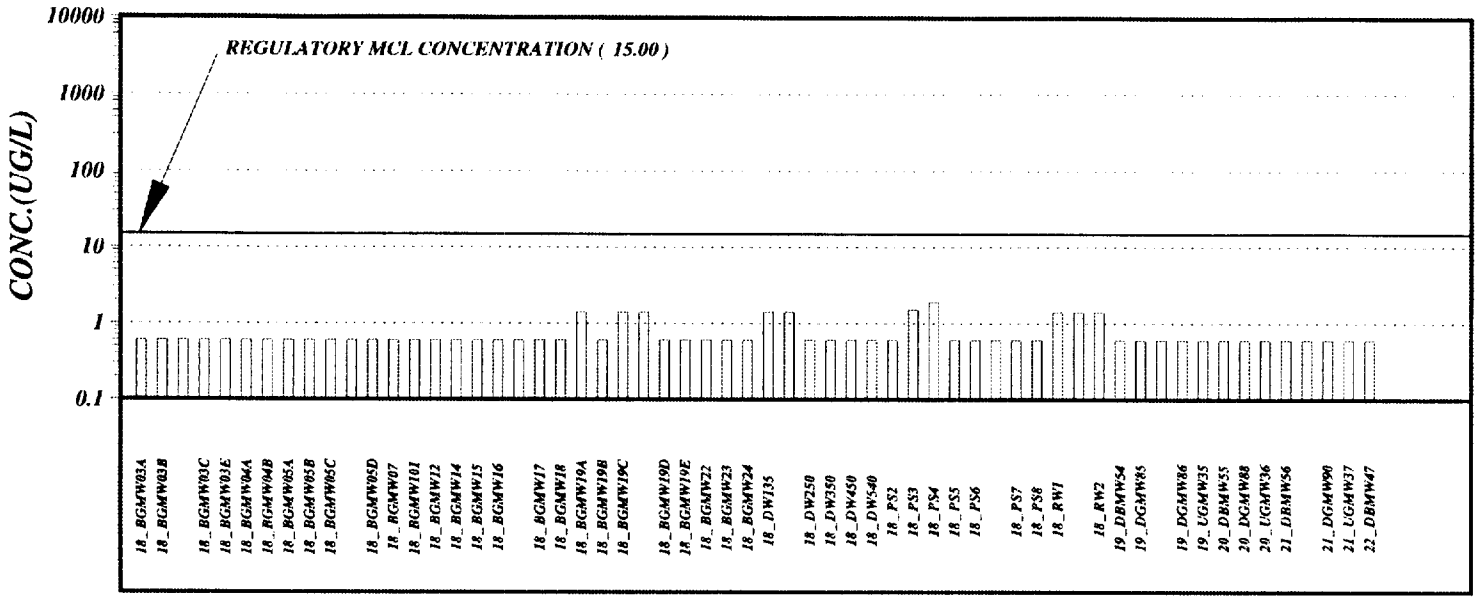
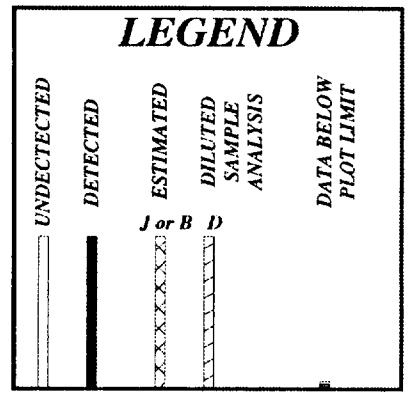
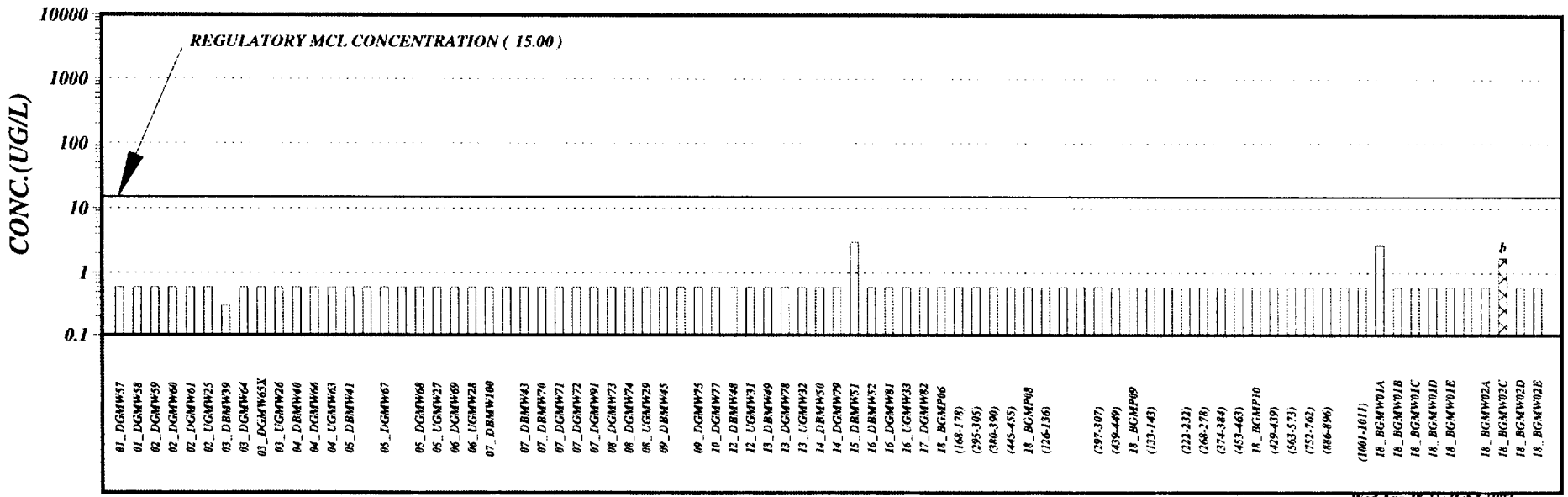
# MCAS EL TORO Phase 1 RI Technical Memorandum

## LEAD Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



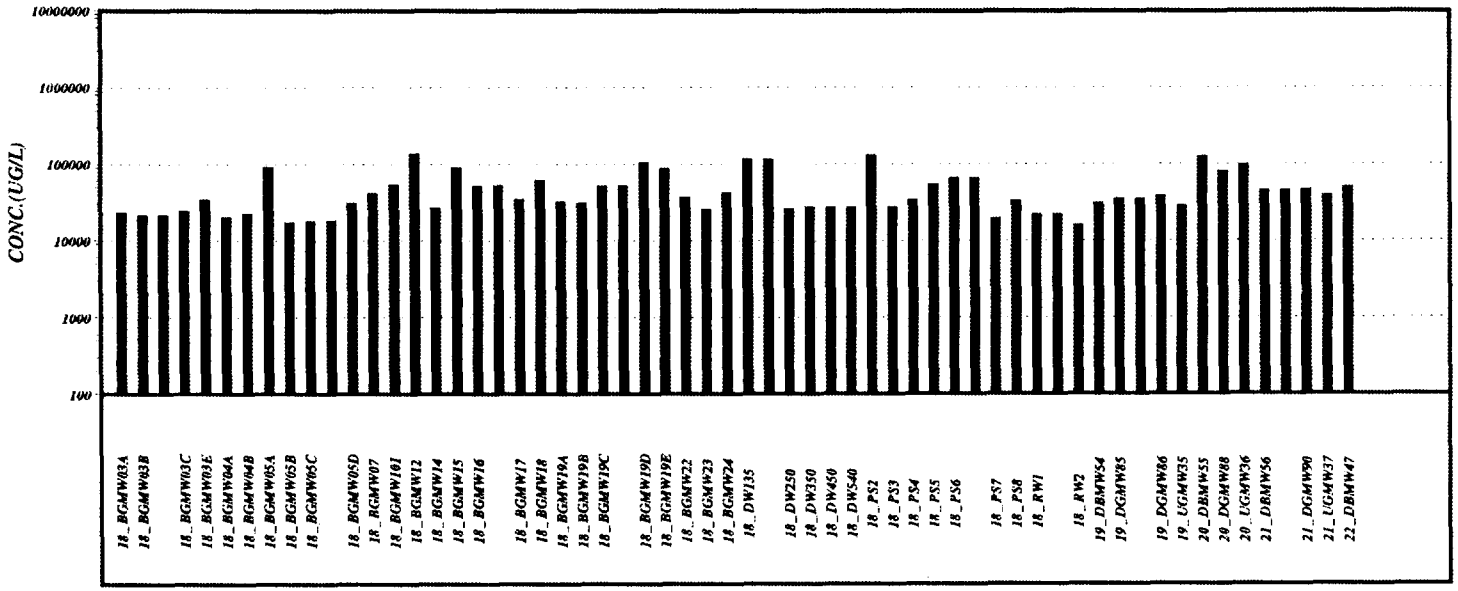



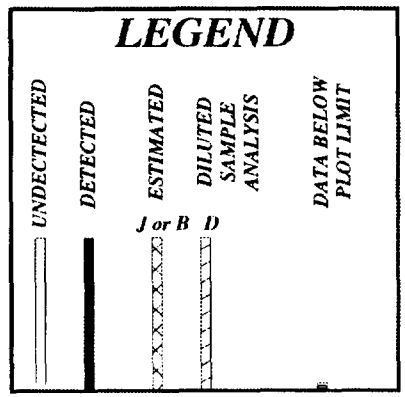



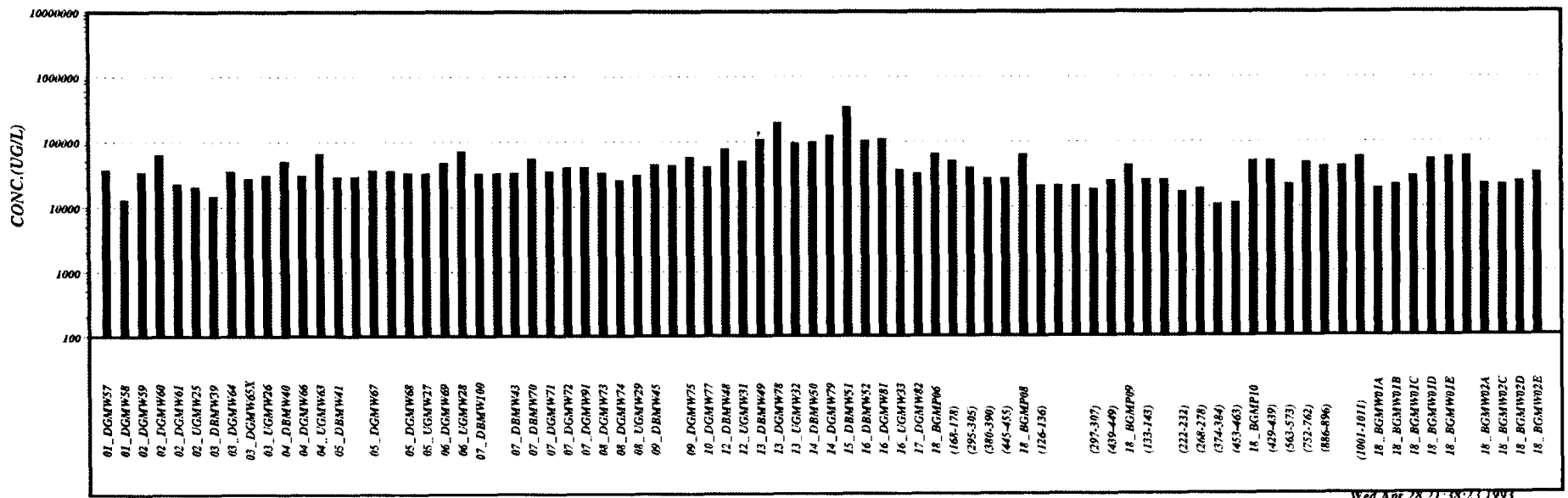

Wed Apr 28 21:46:54 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## MAGNESIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

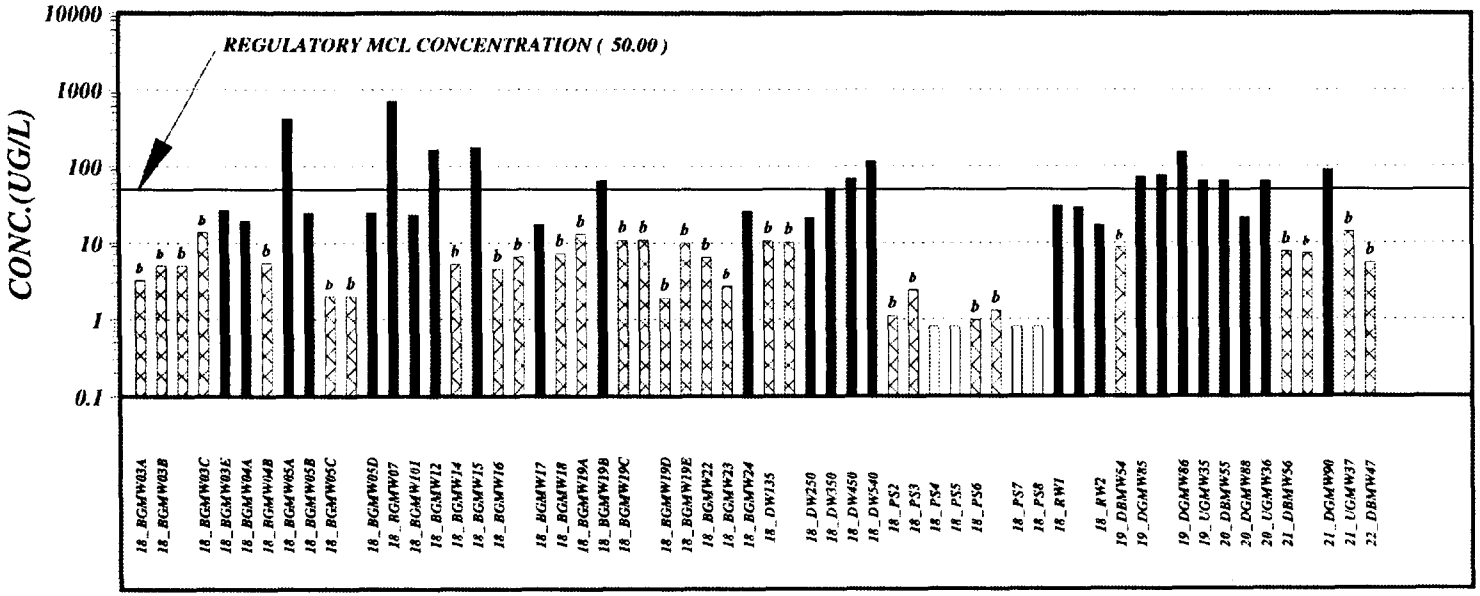


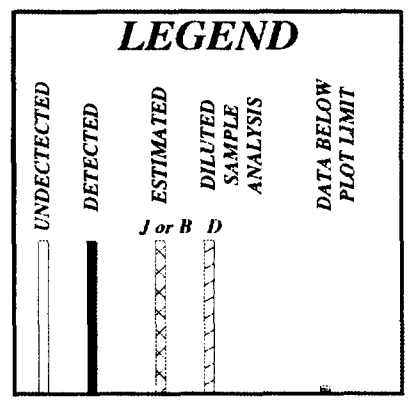



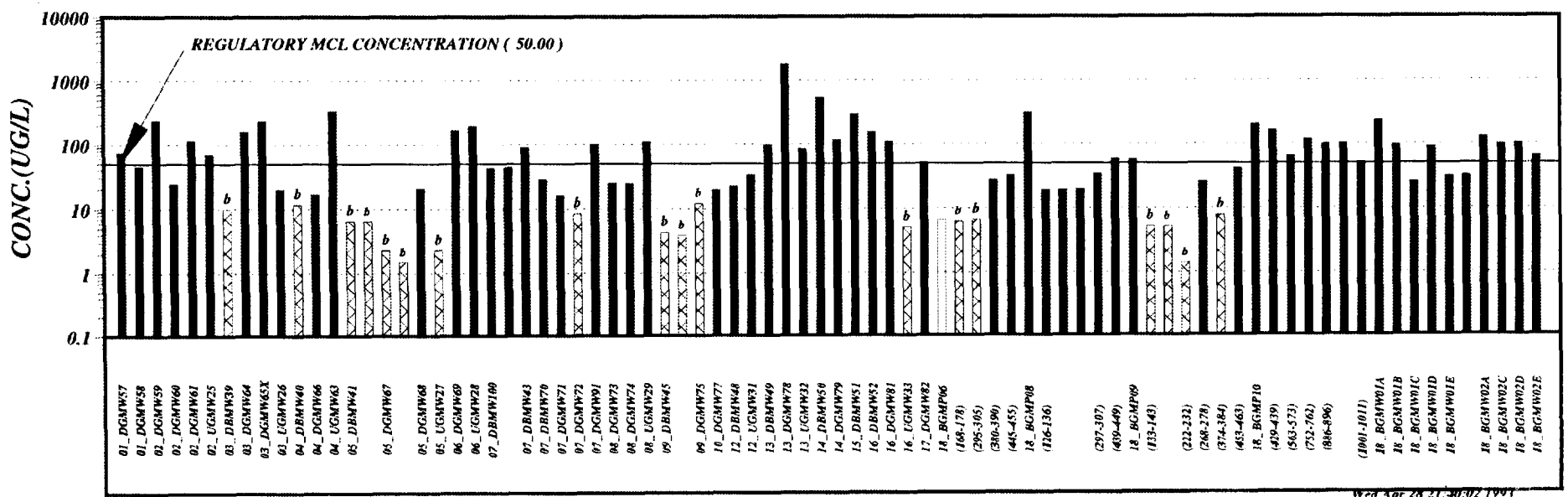



# MCAS EL TORO Phase 1 RI Technical Memorandum

## MANGANESE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

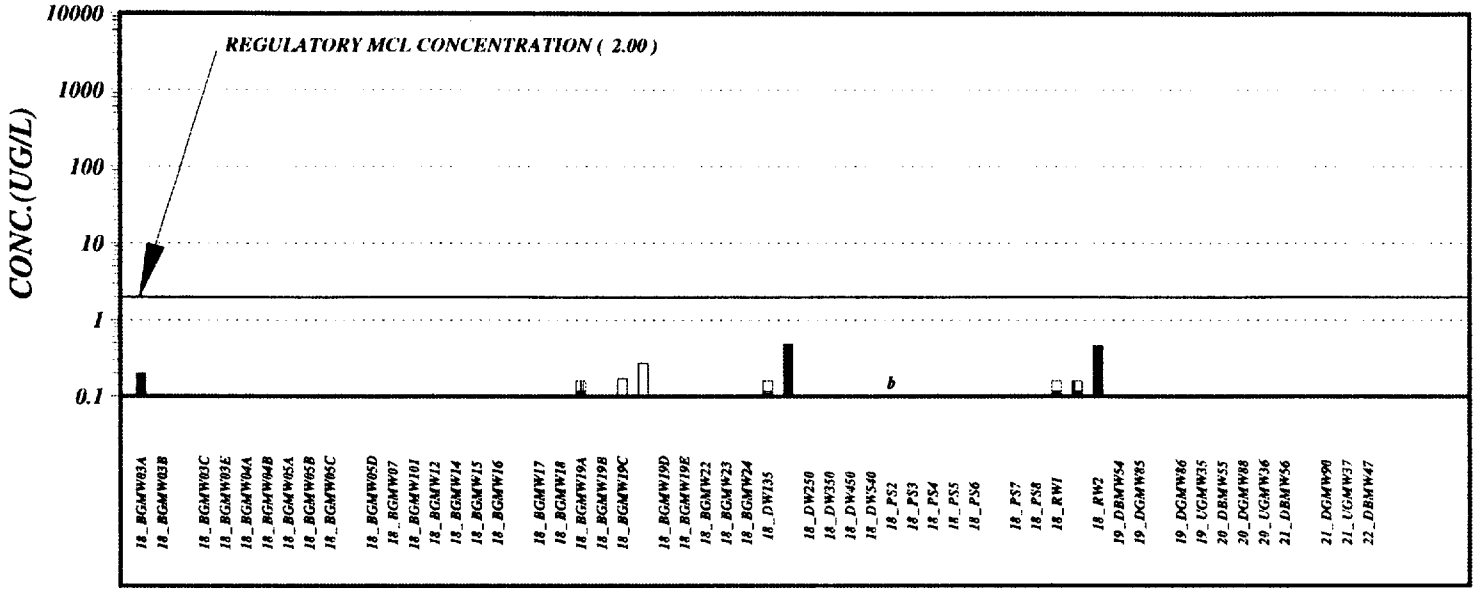


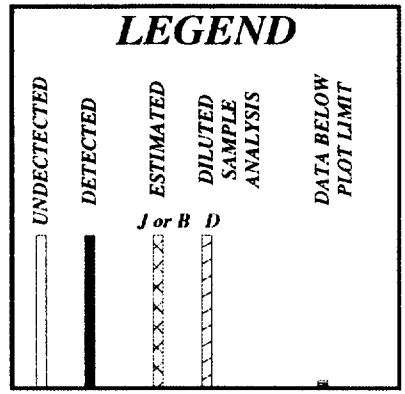



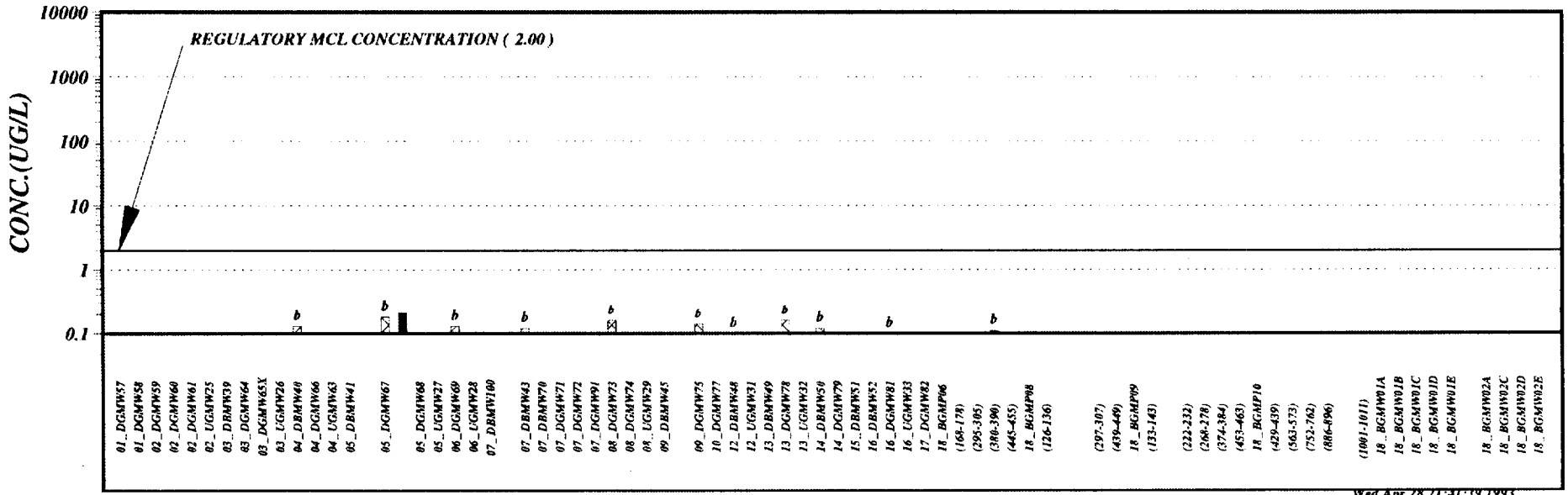



# MCAS EL TORO Phase 1 RI Technical Memorandum

## MERCURY Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



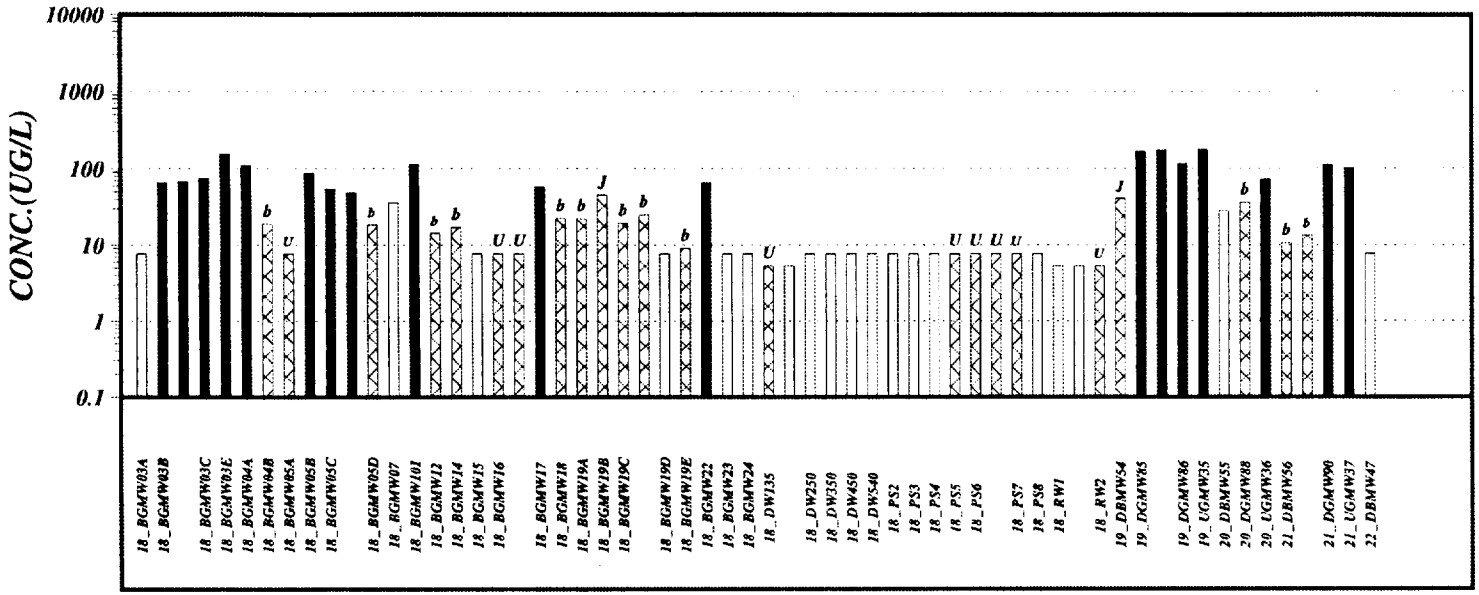



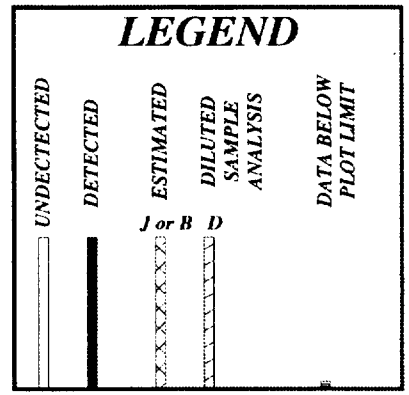



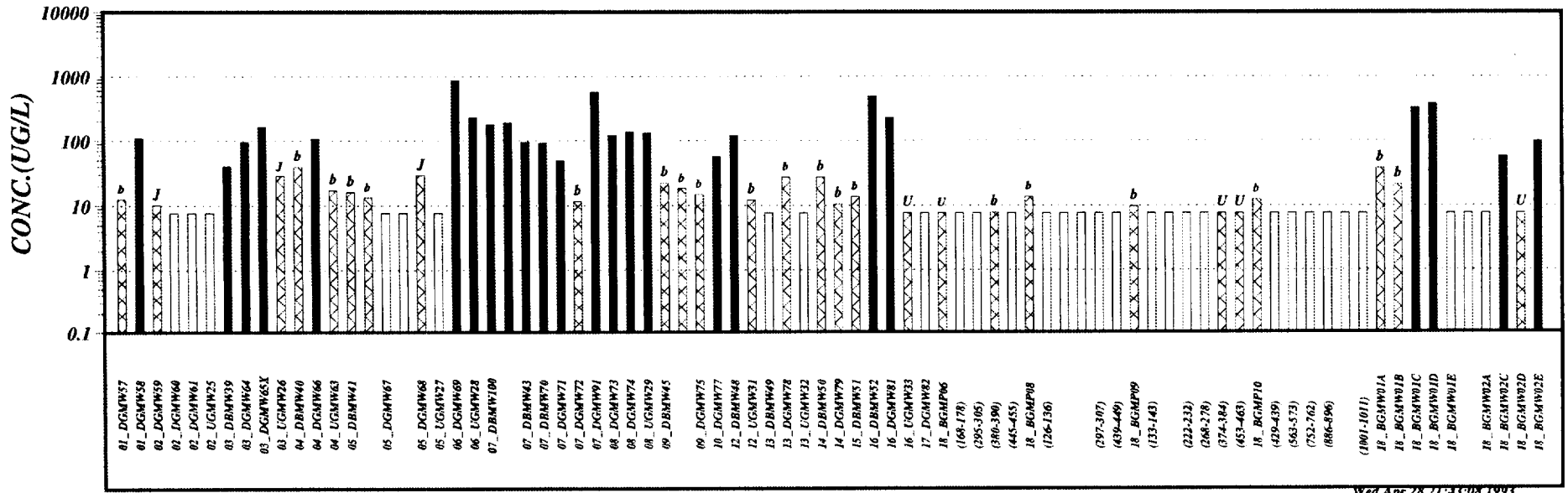

Wed Apr 28 21:41:59 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## NICKEL Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



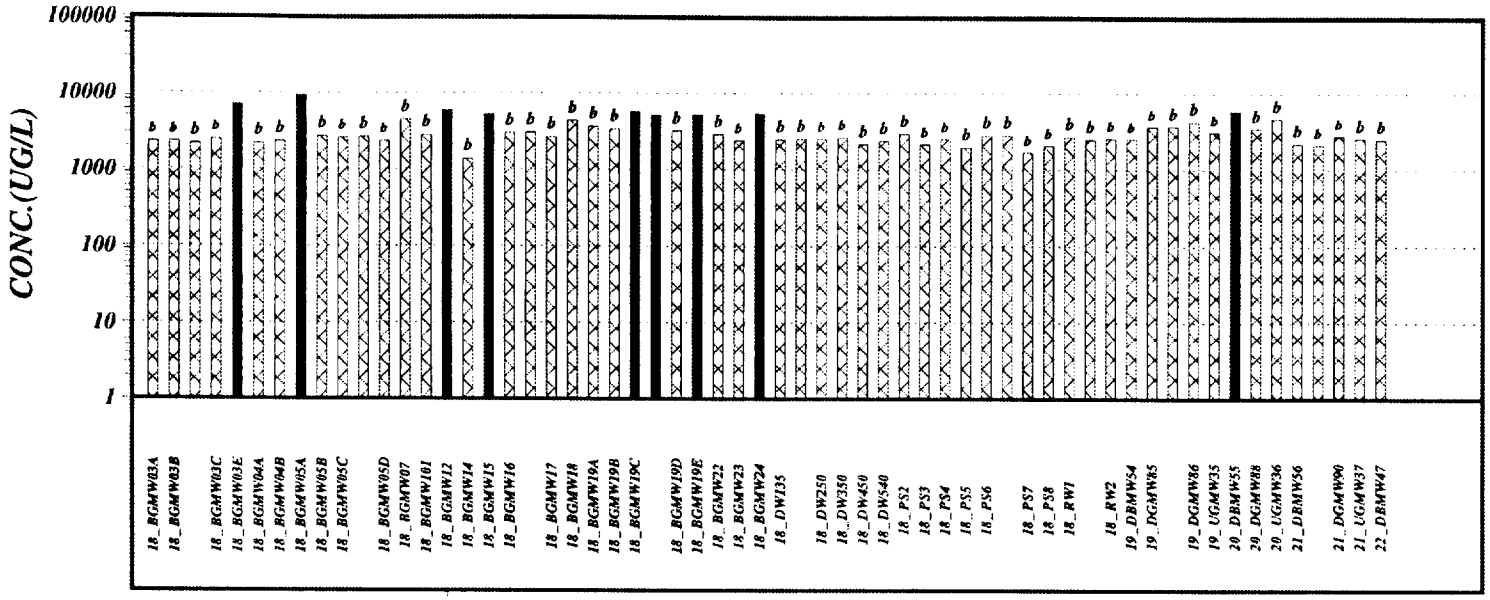



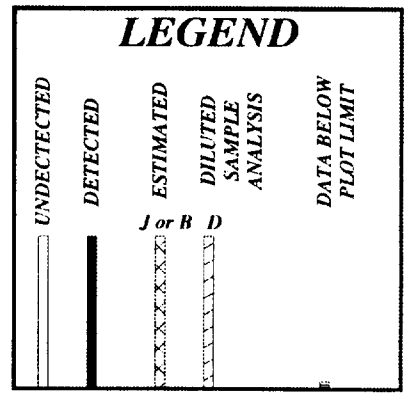



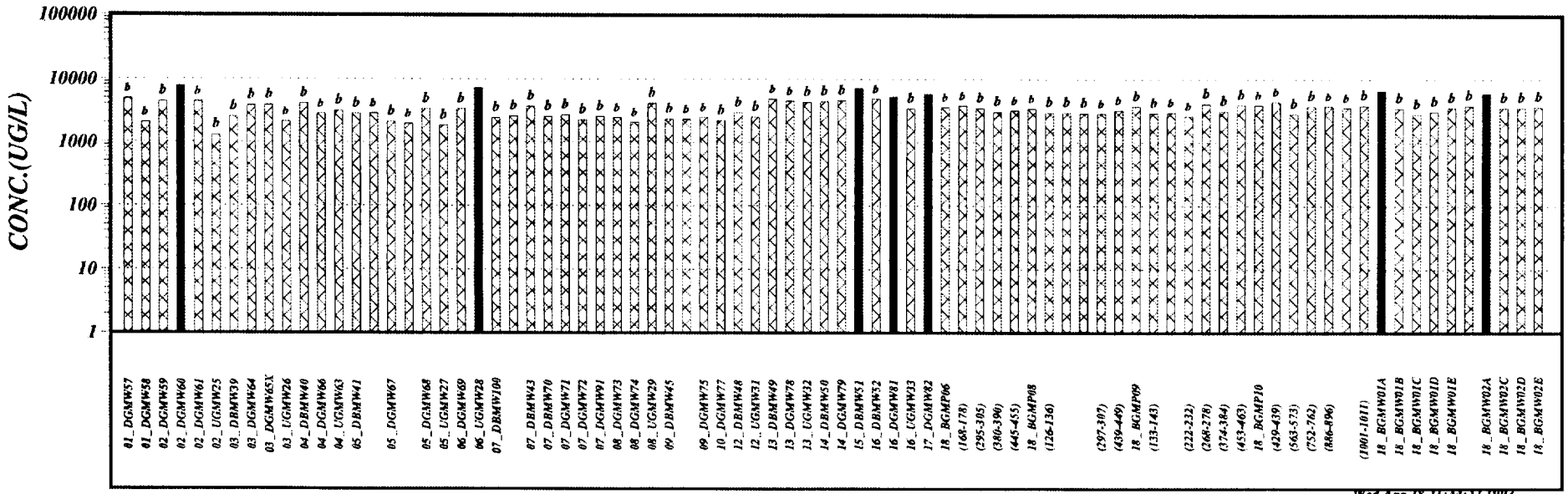

Wed Apr 28 21:33:08 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## POTASSIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



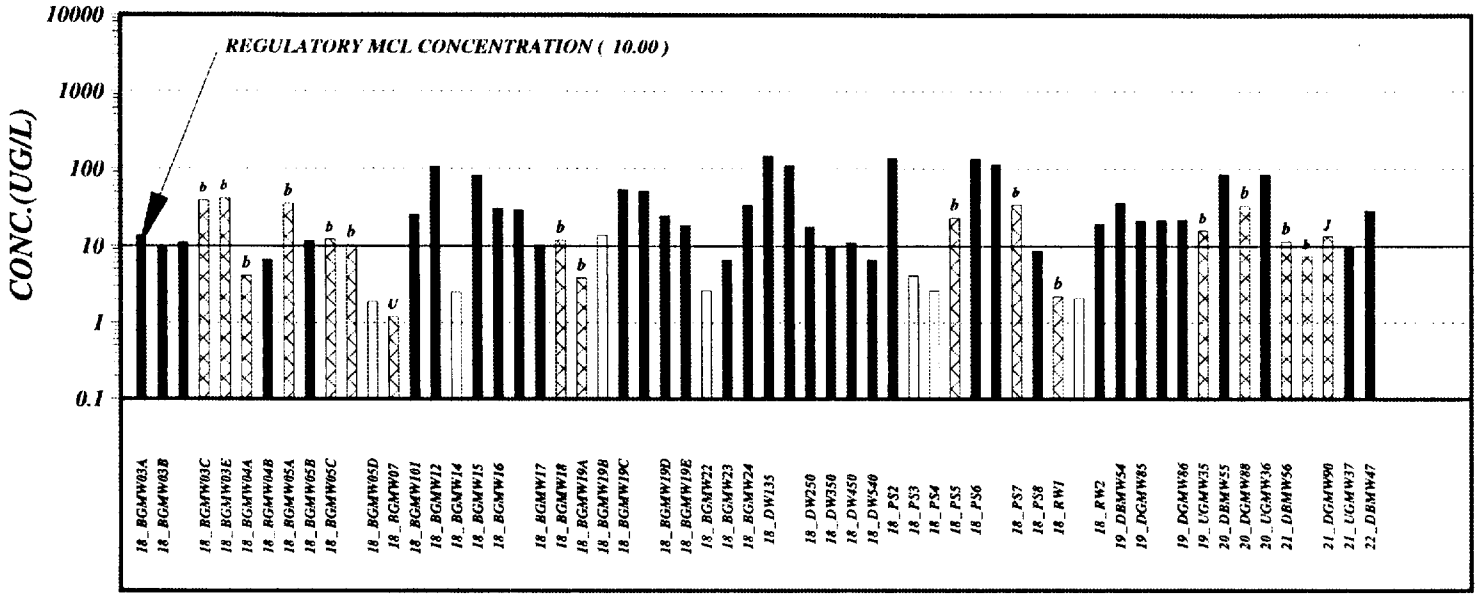



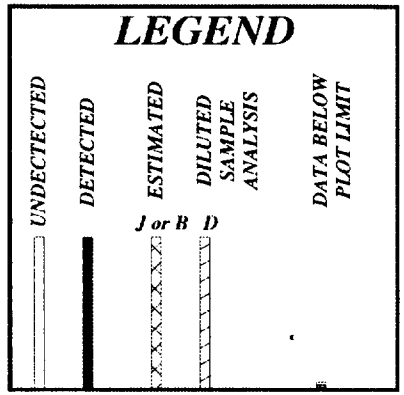



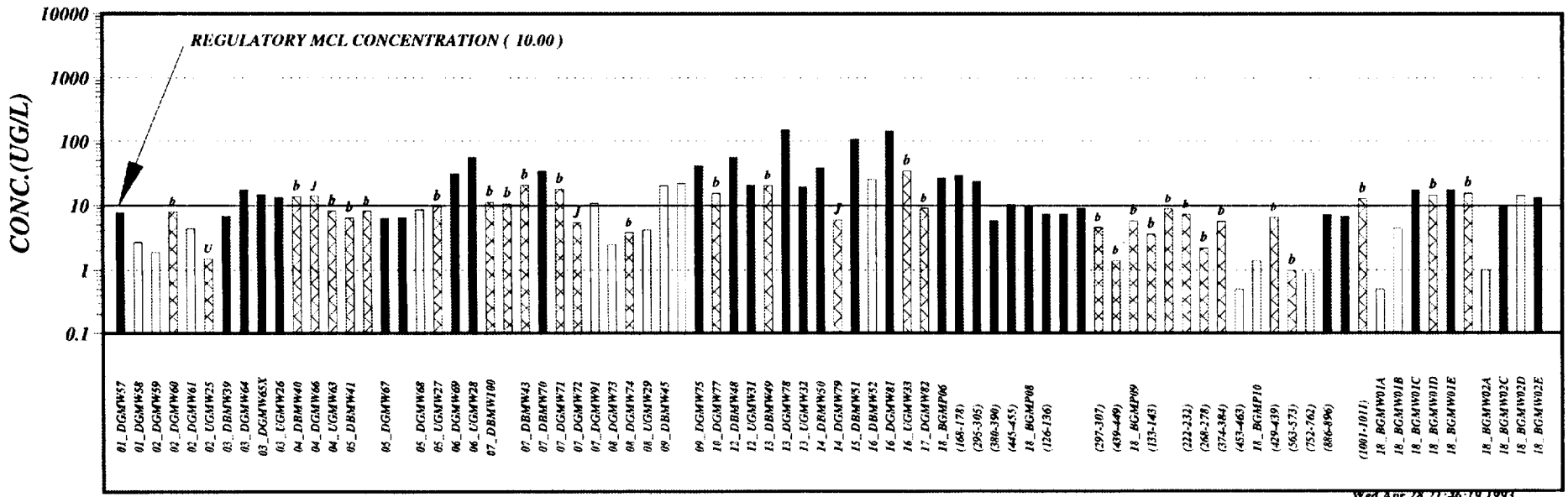

Wed Apr 28 21:44:32 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## SELENIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

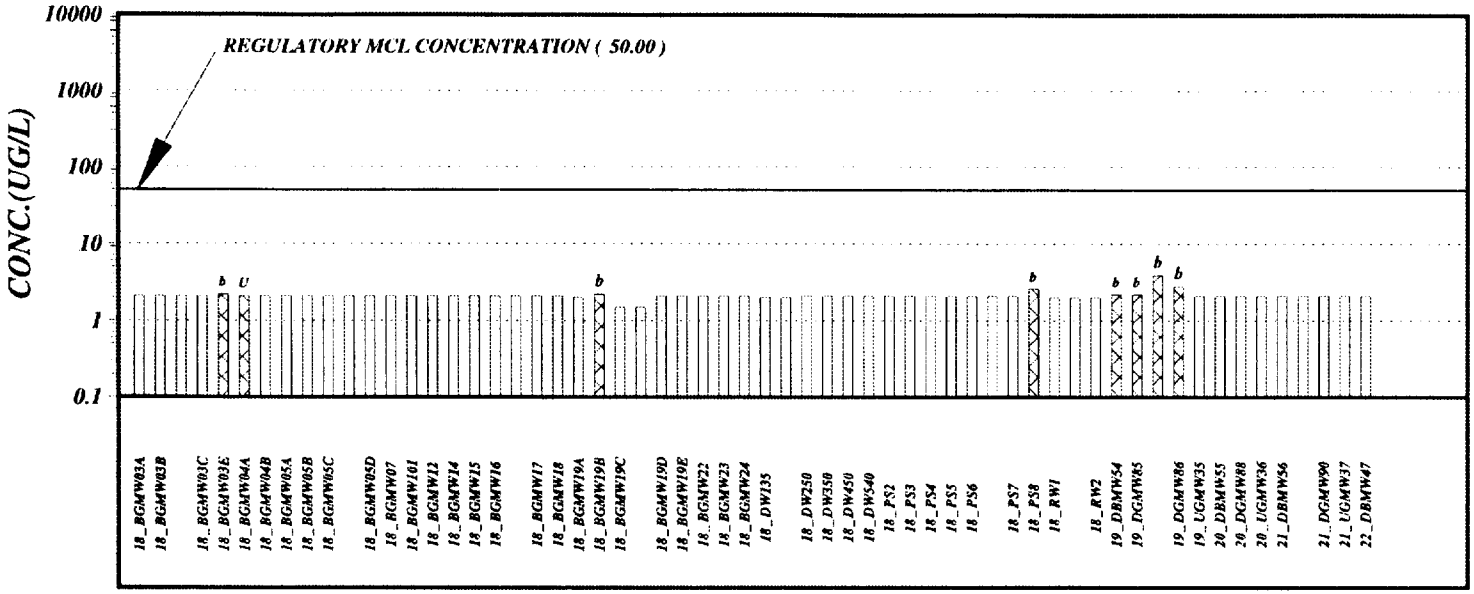


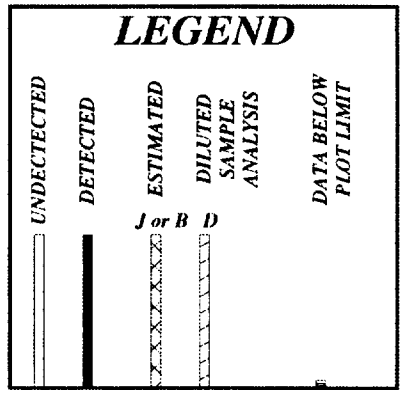



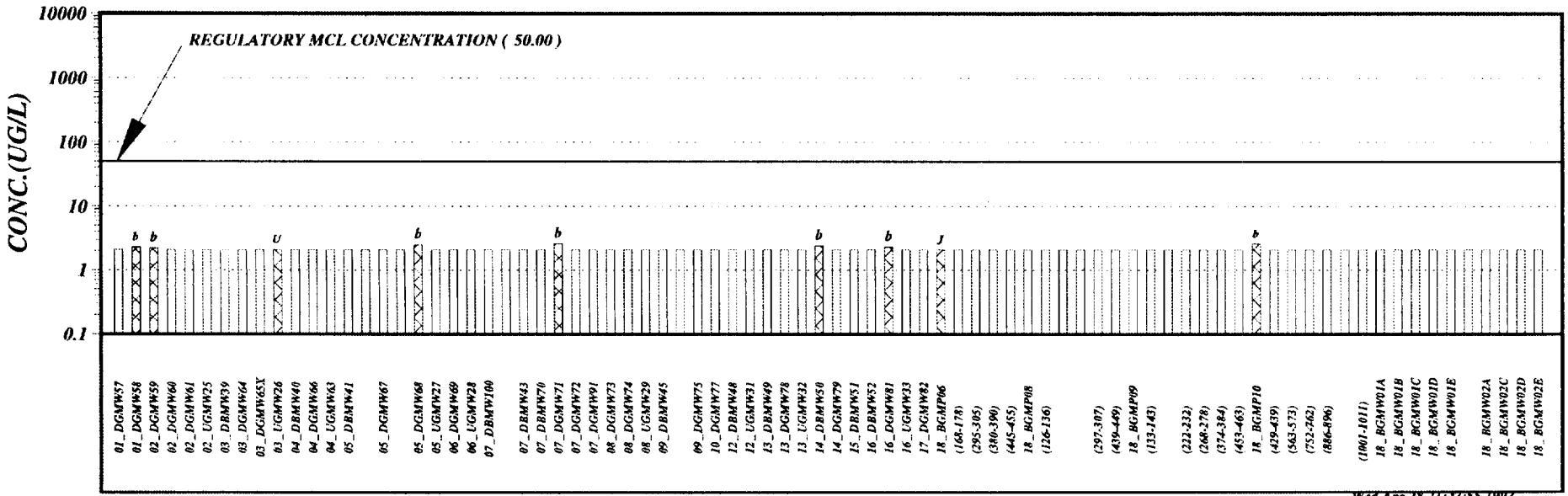



# MCAS EL TORO Phase 1 RI Technical Memorandum

## SILVER Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



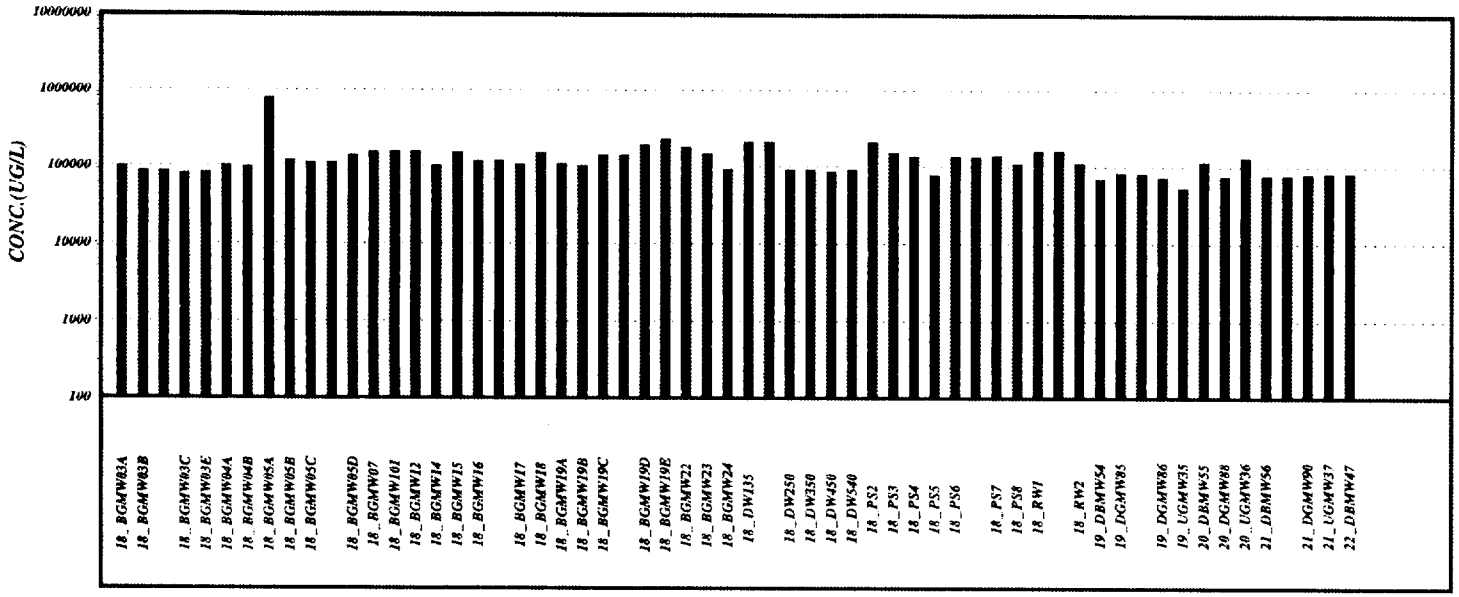



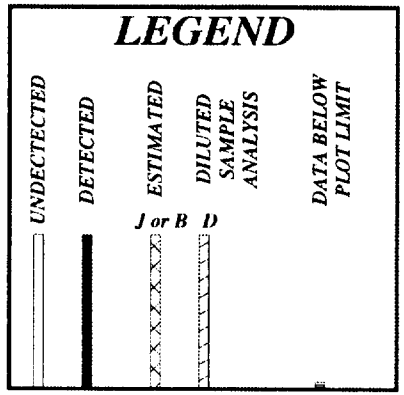



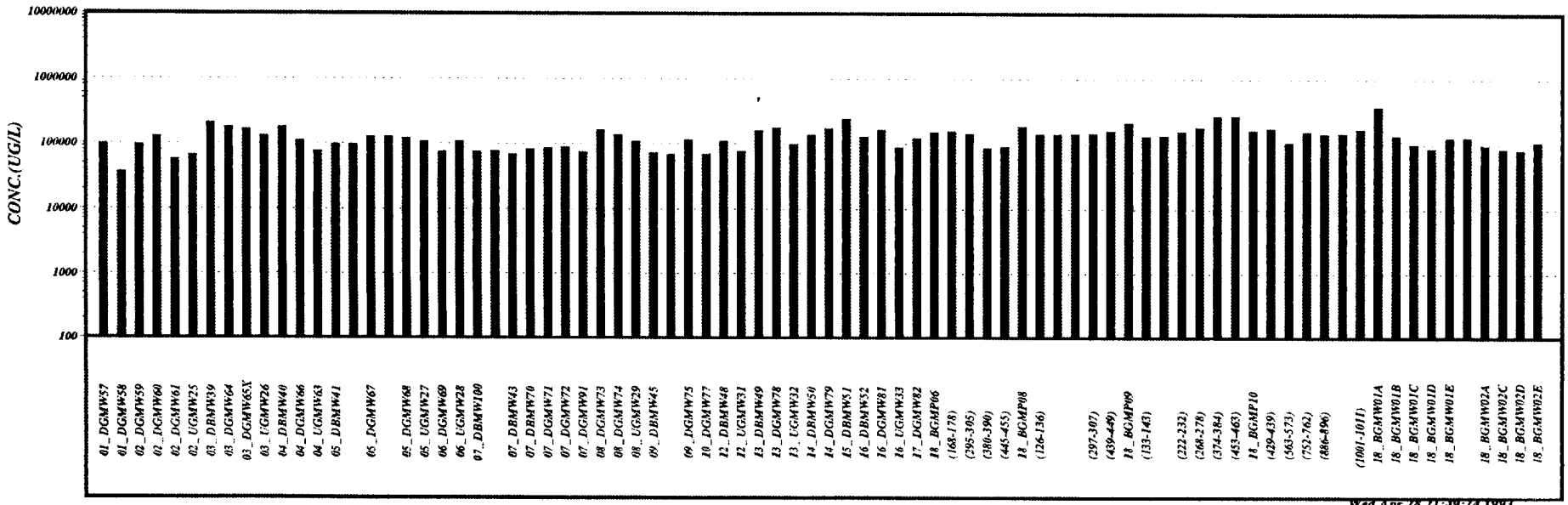

Wed Apr 28 21:37:55 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## SODIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



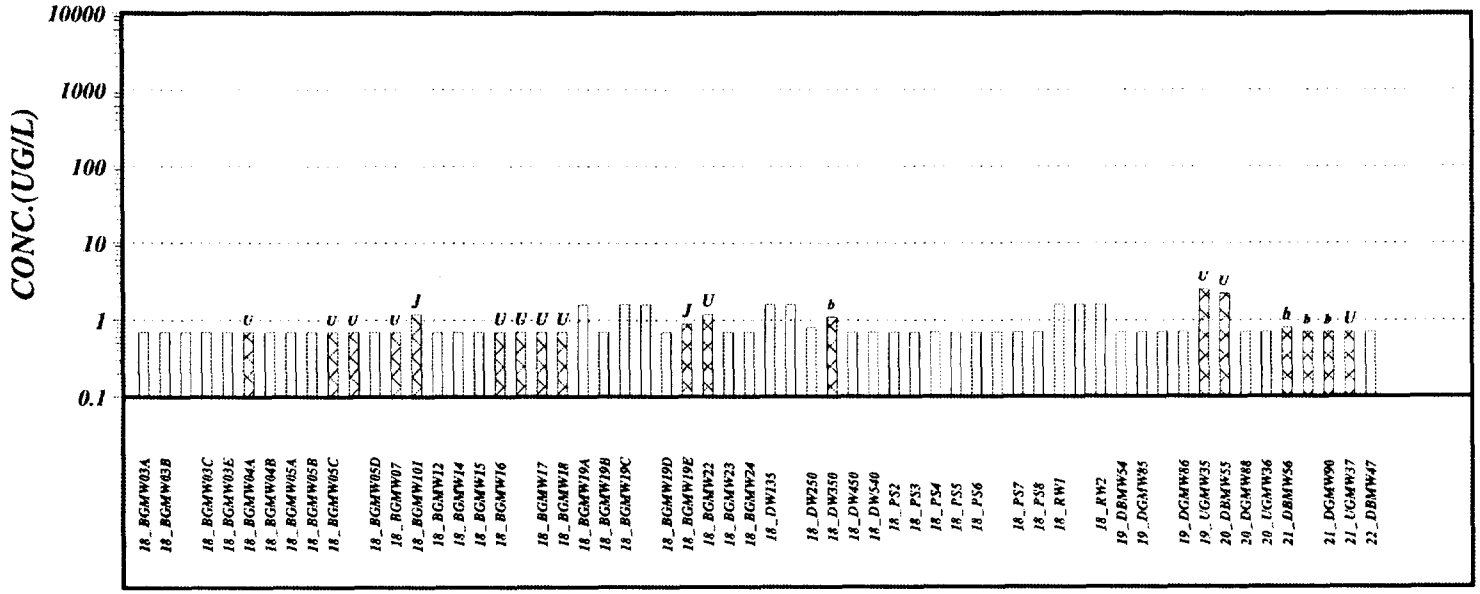



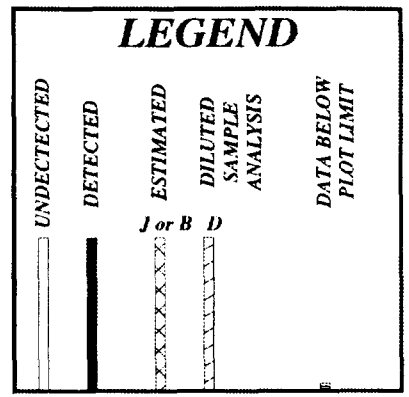



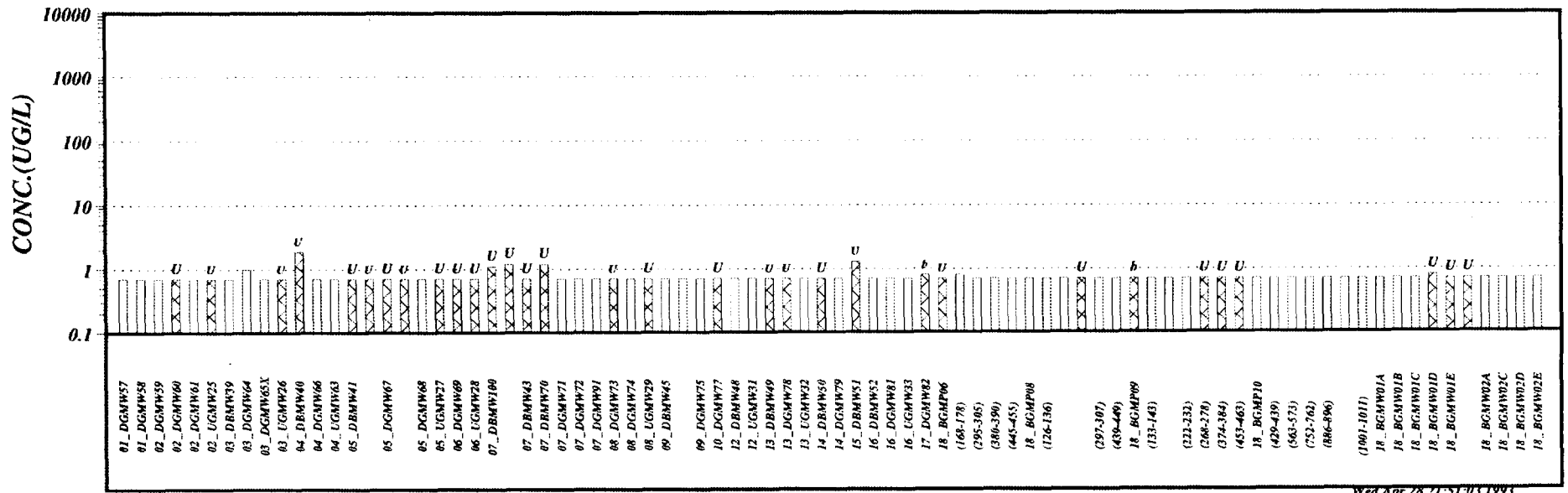

Wed Apr 28 21:39:24 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## THALLIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



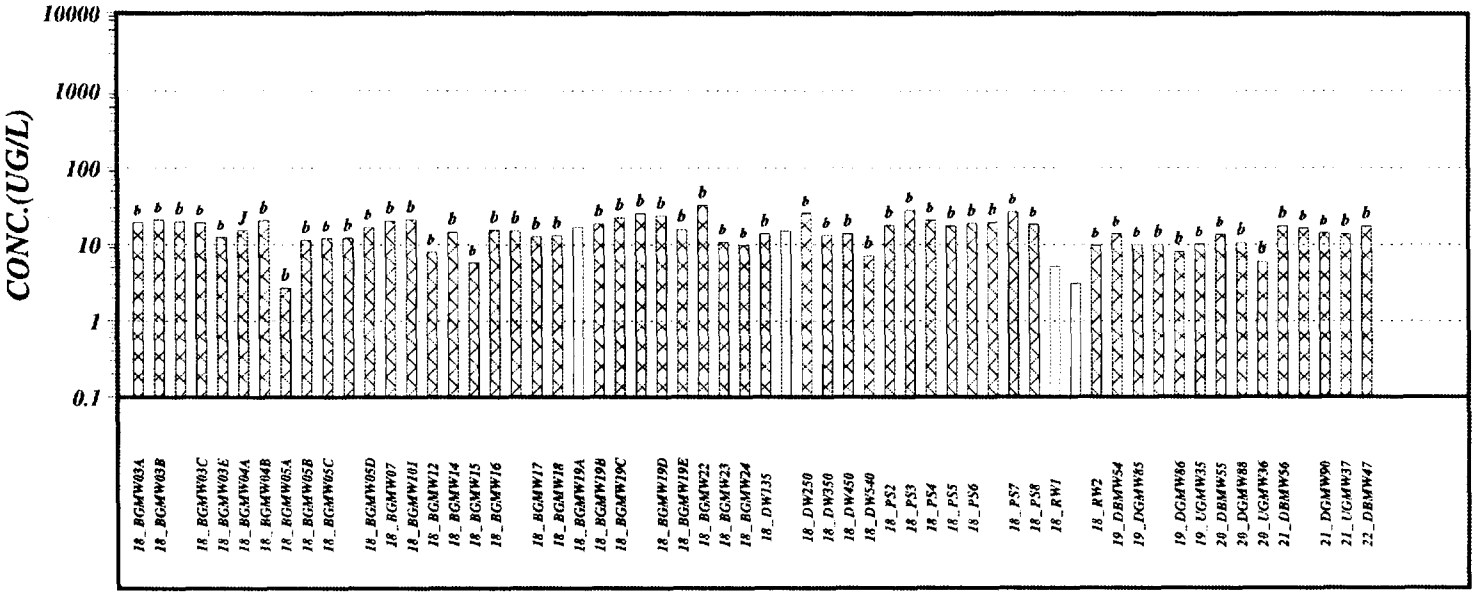



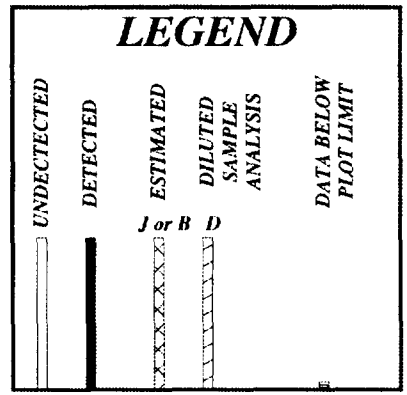



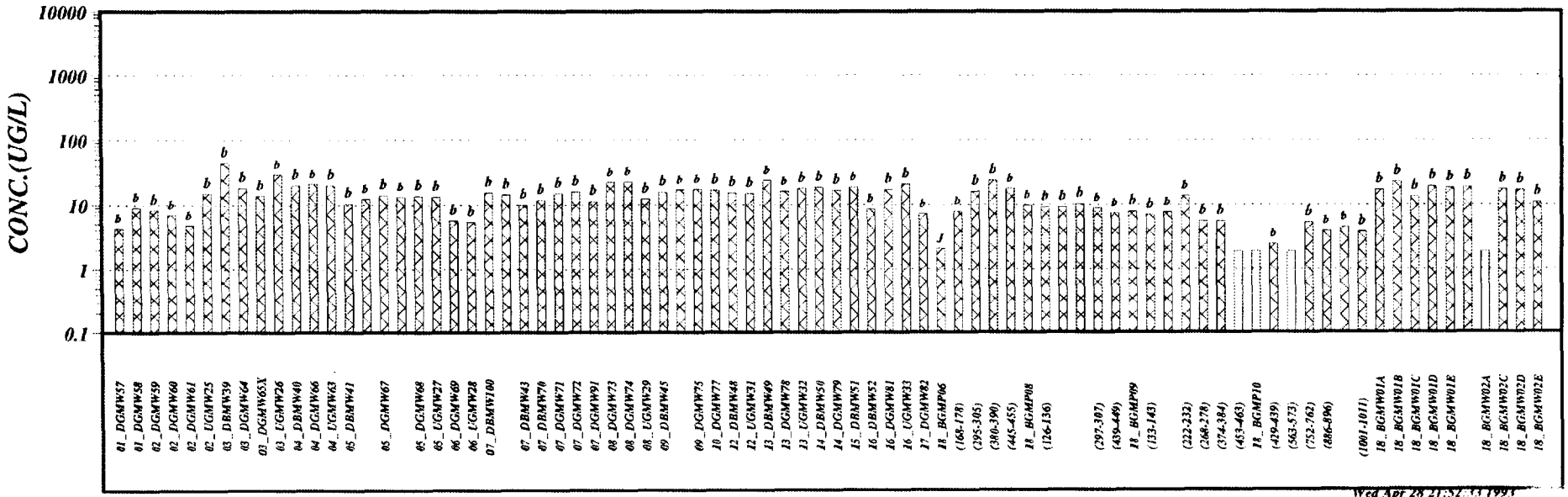

Wed Apr 28 21:51:03 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## VANADIUM Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



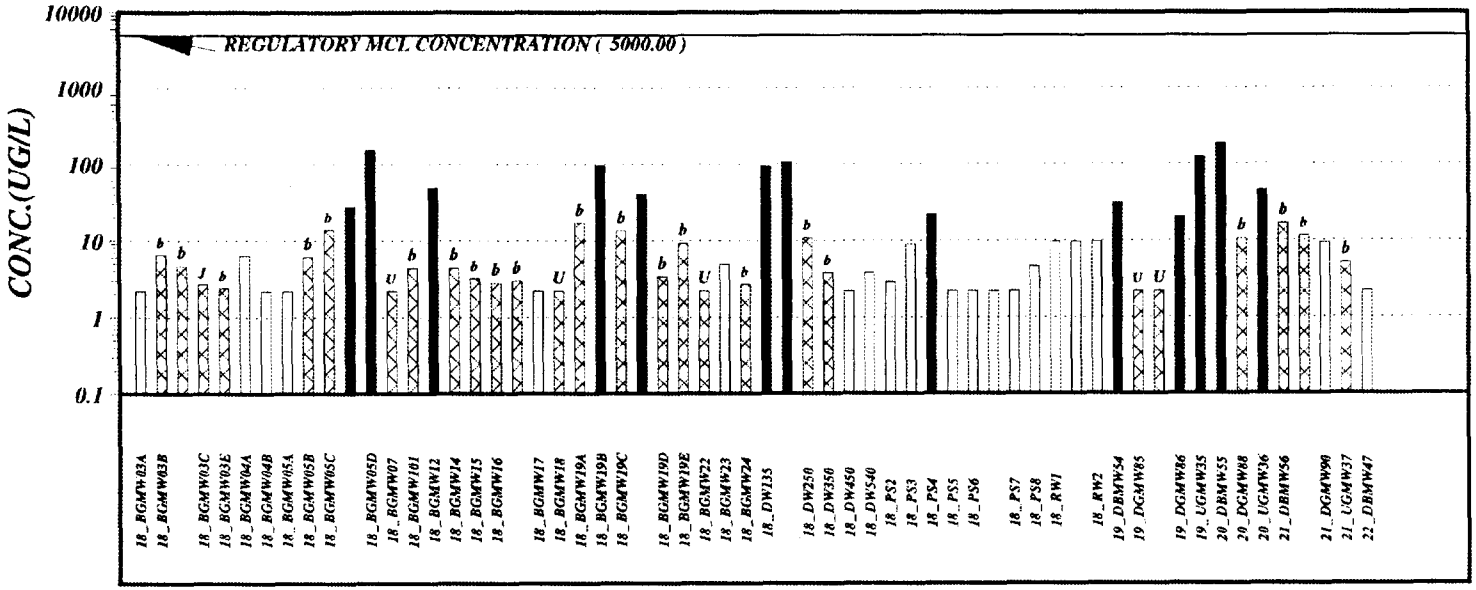



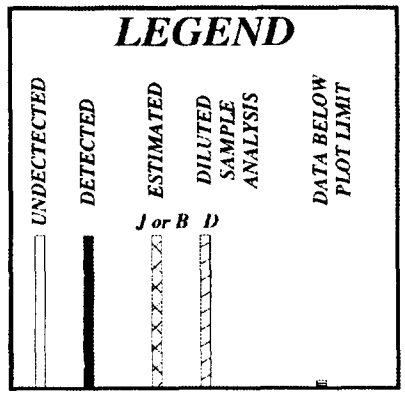



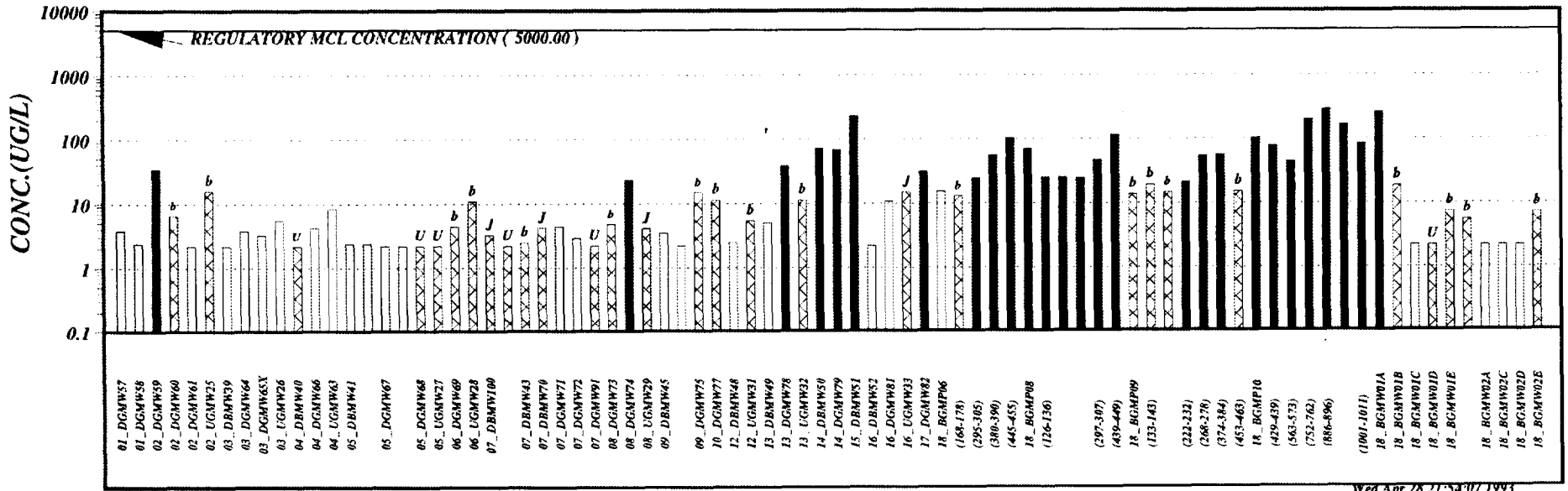

Wed Apr 28 21:52:33 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## ZINC Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

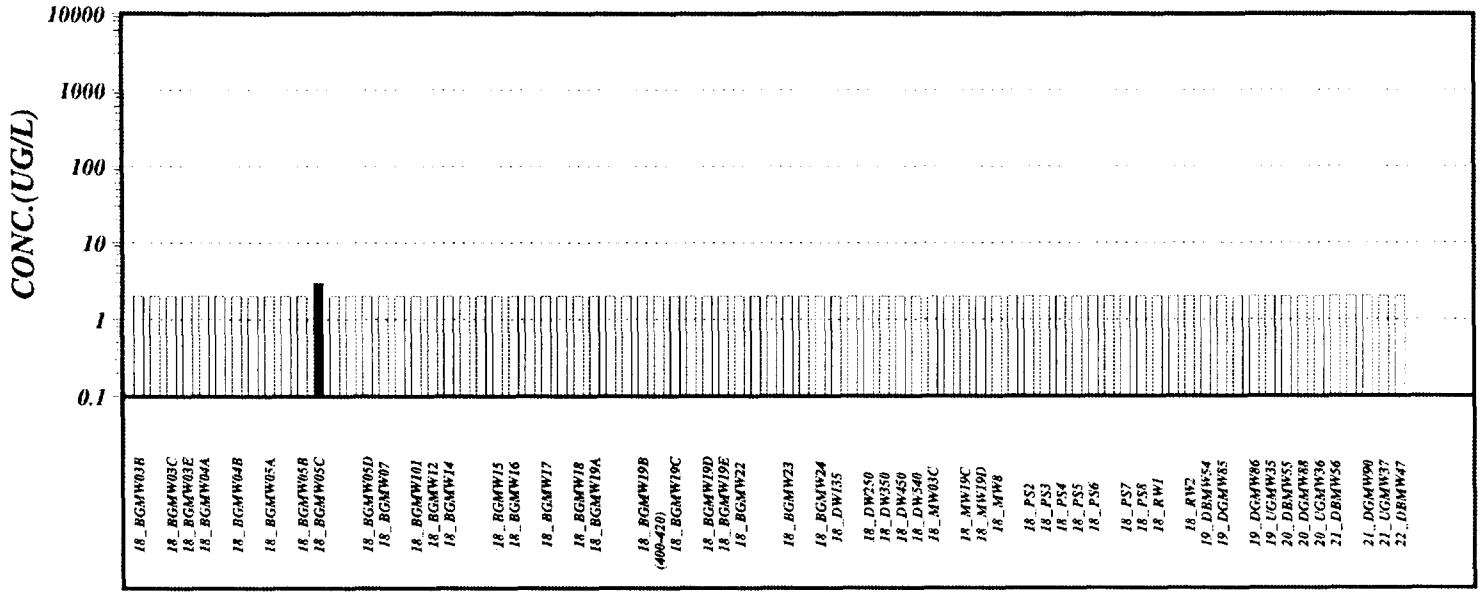


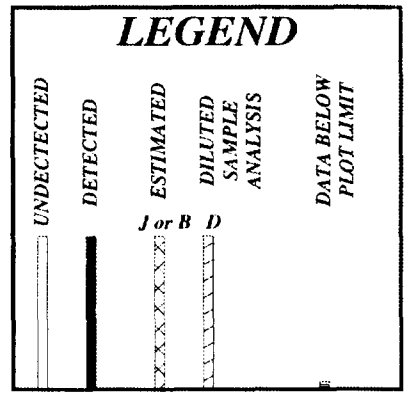



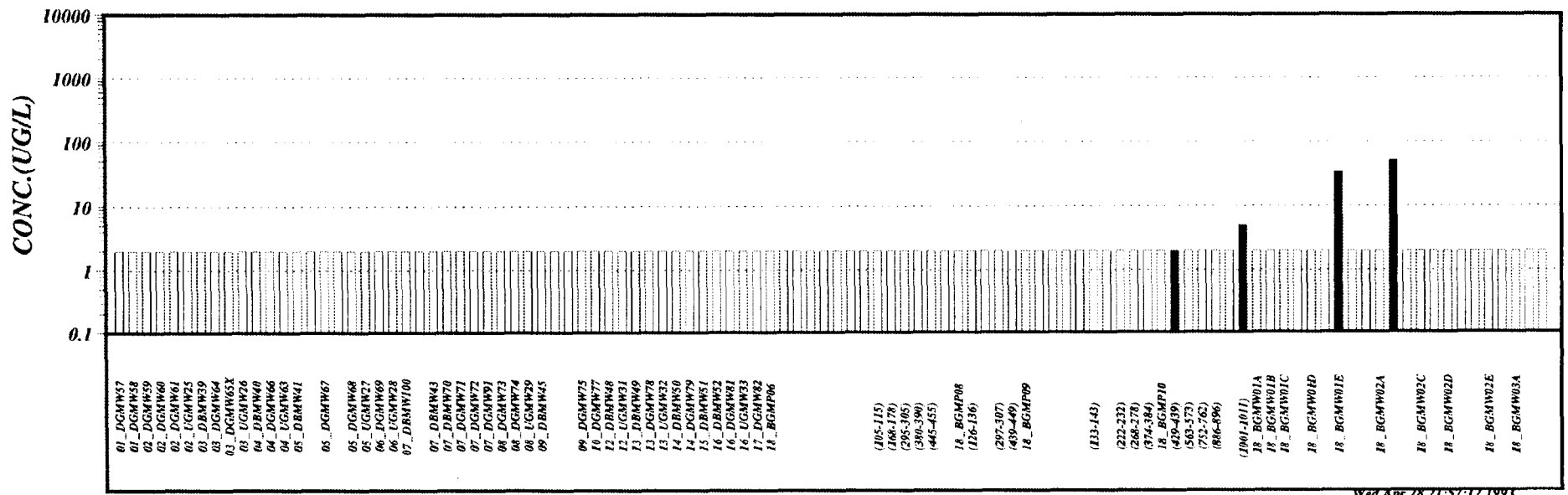



# MCAS EL TORO Phase 1 RI Technical Memorandum

## ACETONE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)

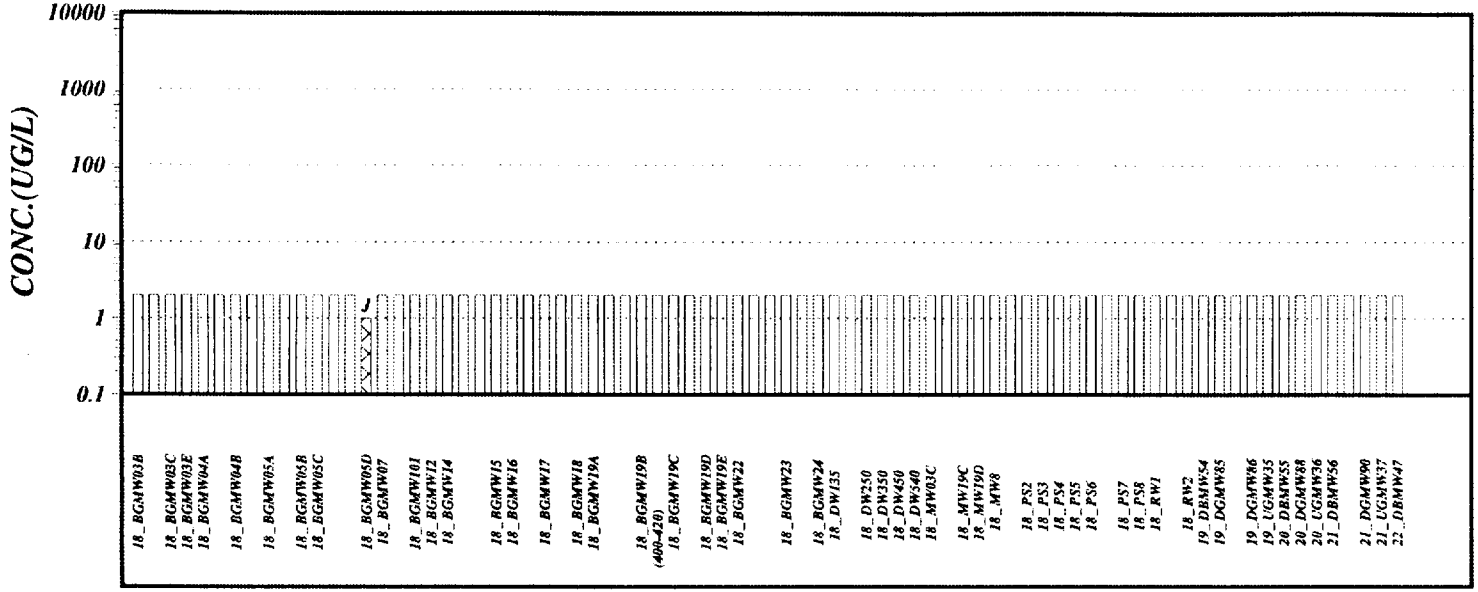


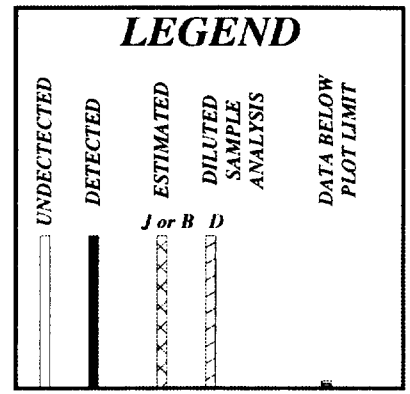



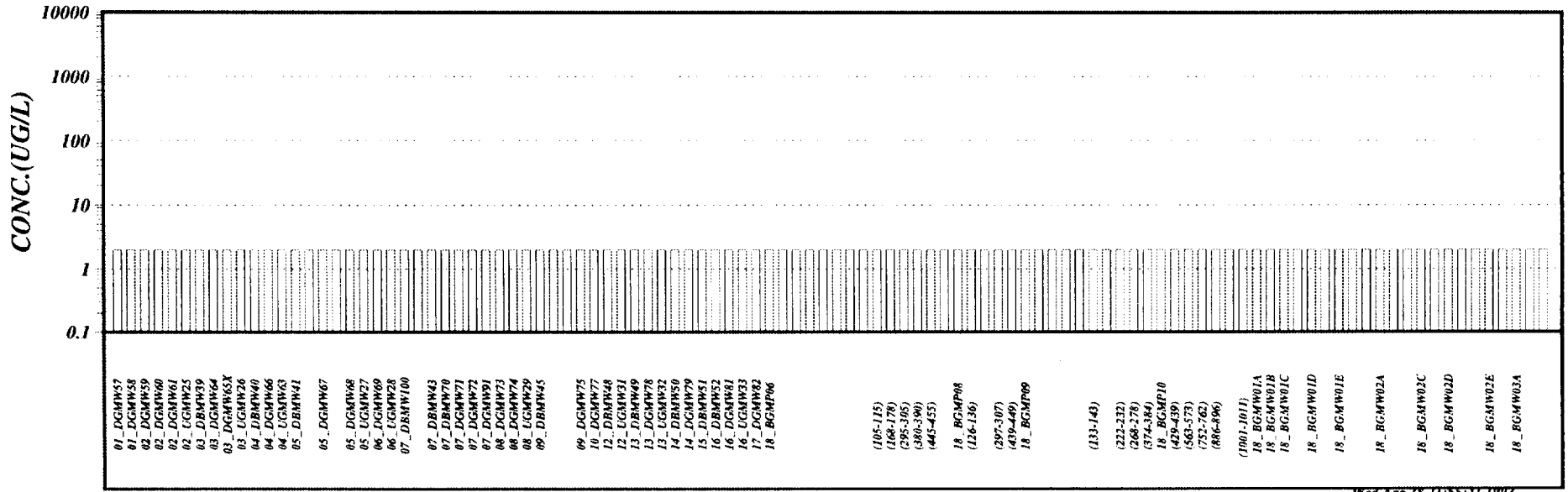



# MCAS EL TORO Phase 1 RI Technical Memorandum

## 2-BUTANONE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)

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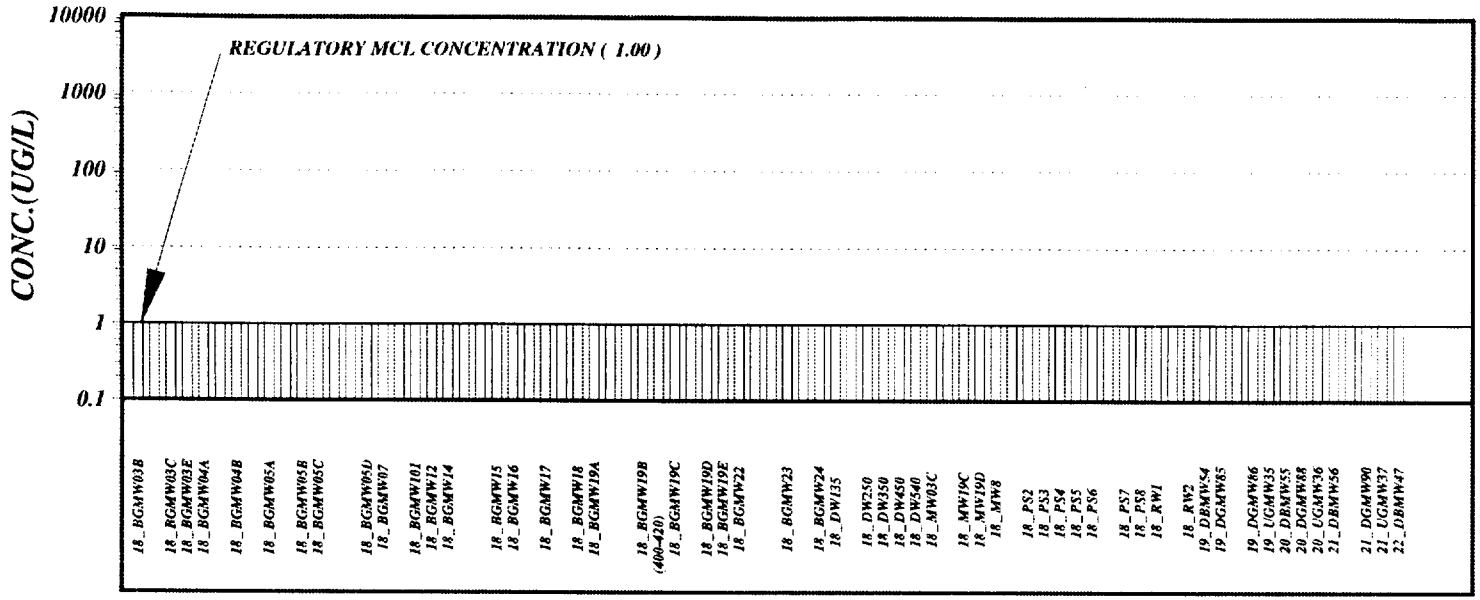
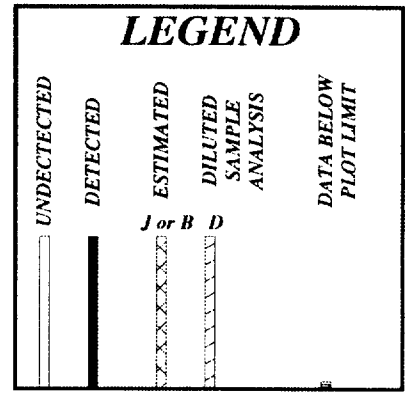
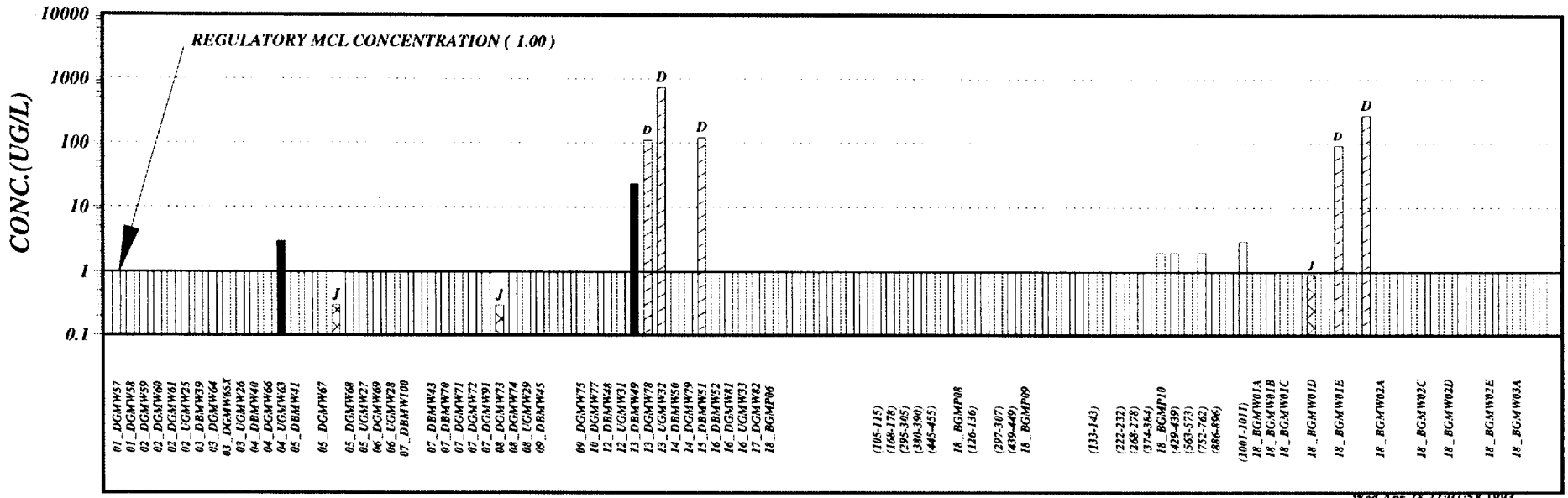
# MCAS EL TORO Phase 1 RI Technical Memorandum

## BENZENE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)



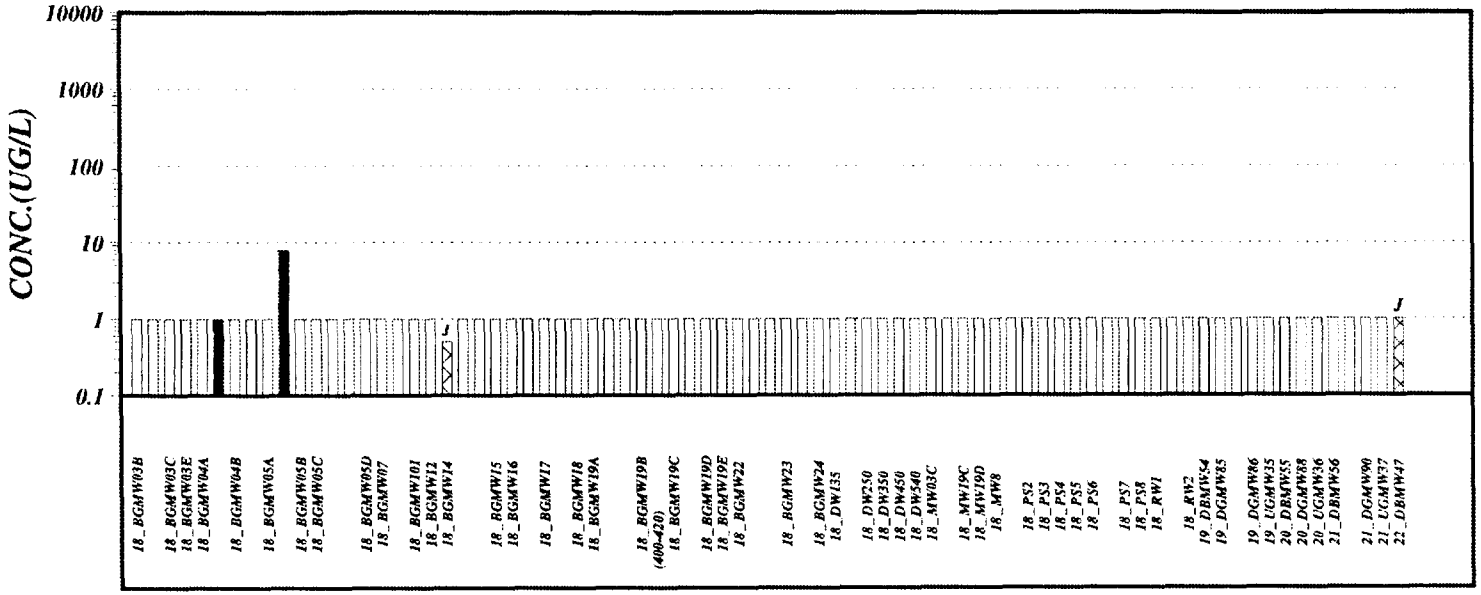



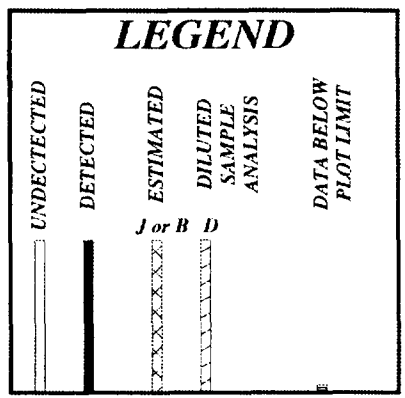



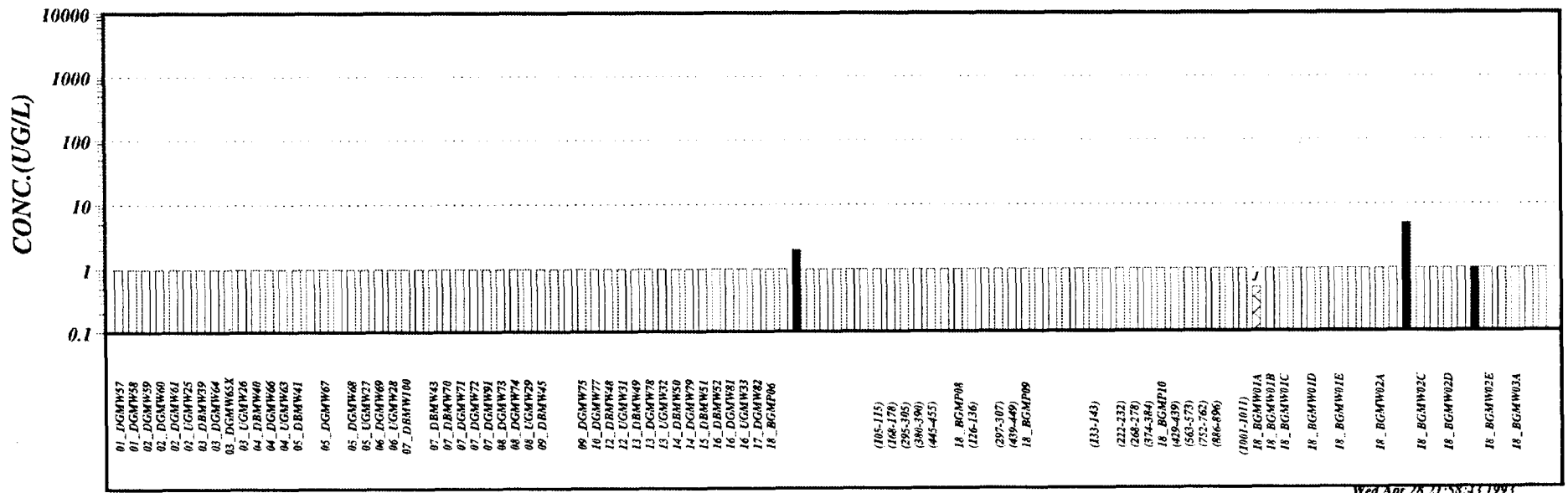

Wed Apr 28 22:07:58 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## CARBON DISULFIDE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)



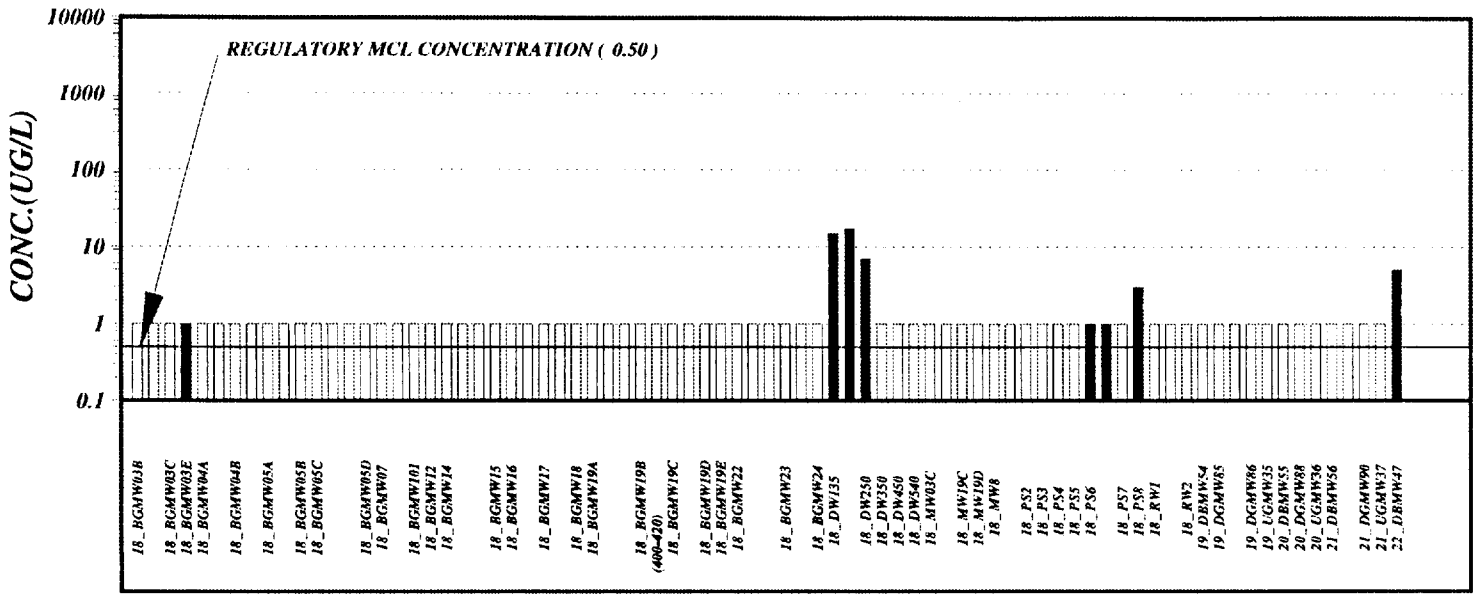



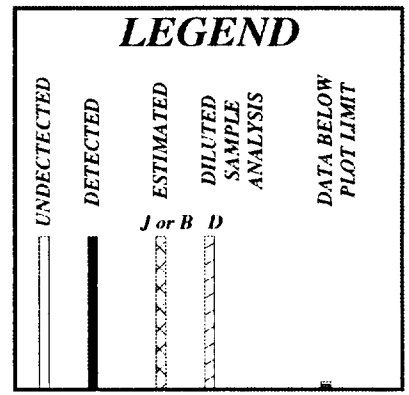



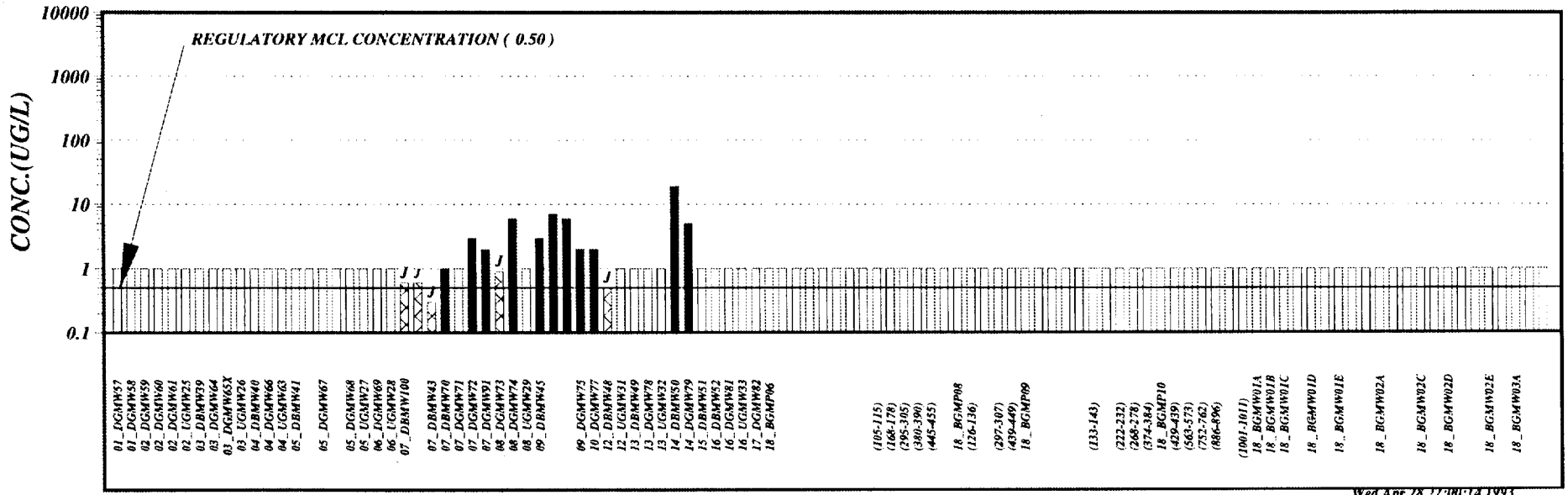

Wed Apr 28 21:58:43 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## CARBON TETRACHLORIDE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)



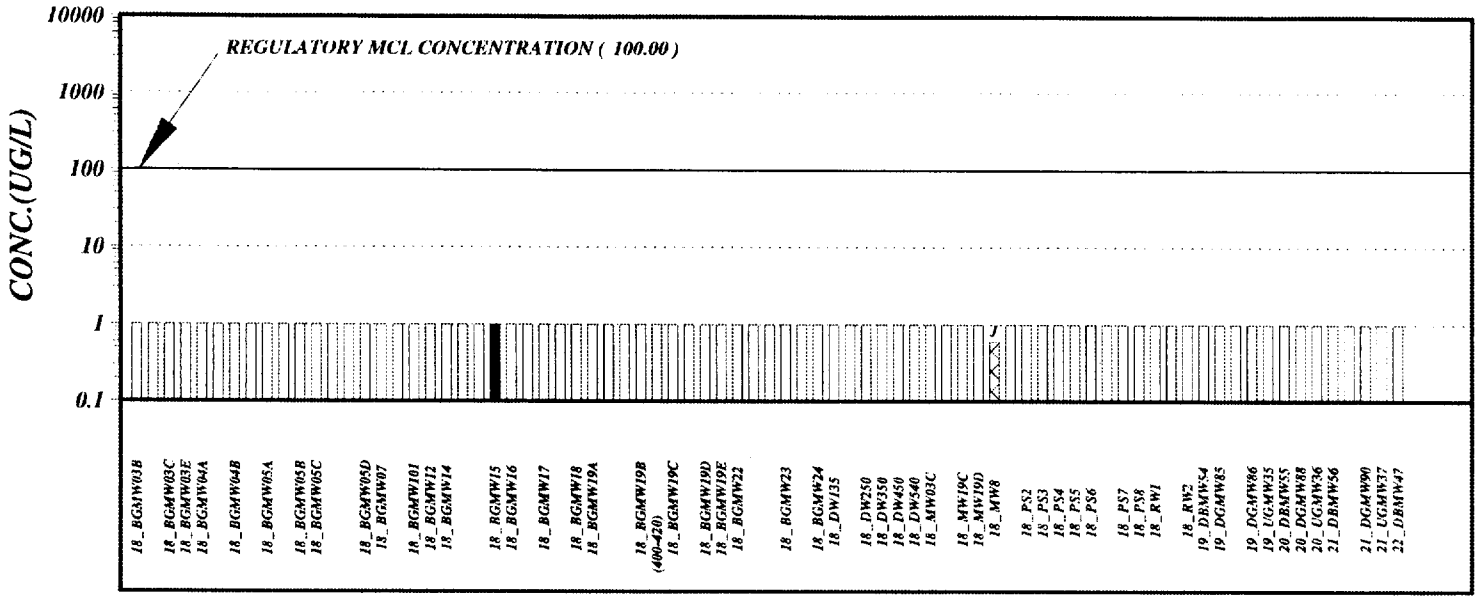



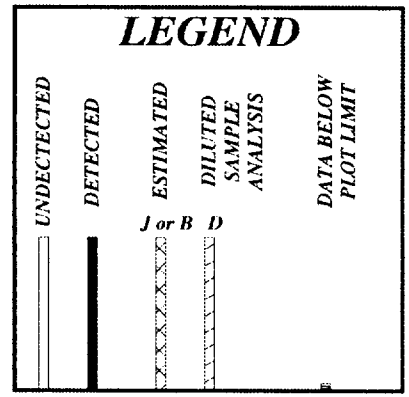



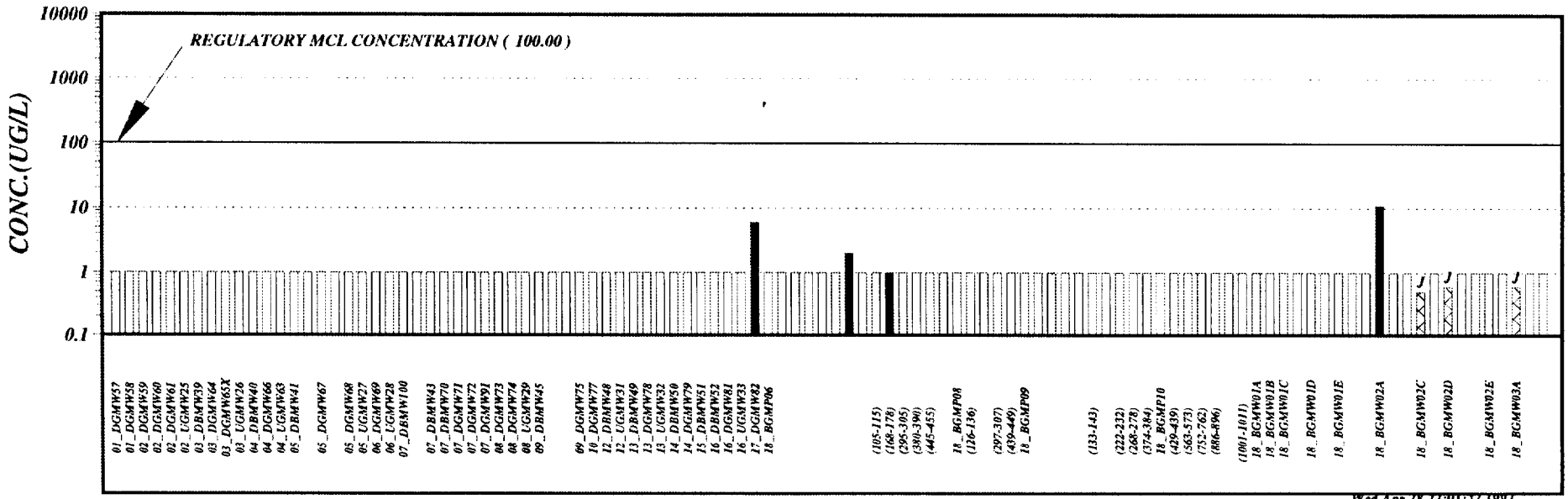

Wed Apr 28 22:00:14 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## CHLORODIBROMOMETHANE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)



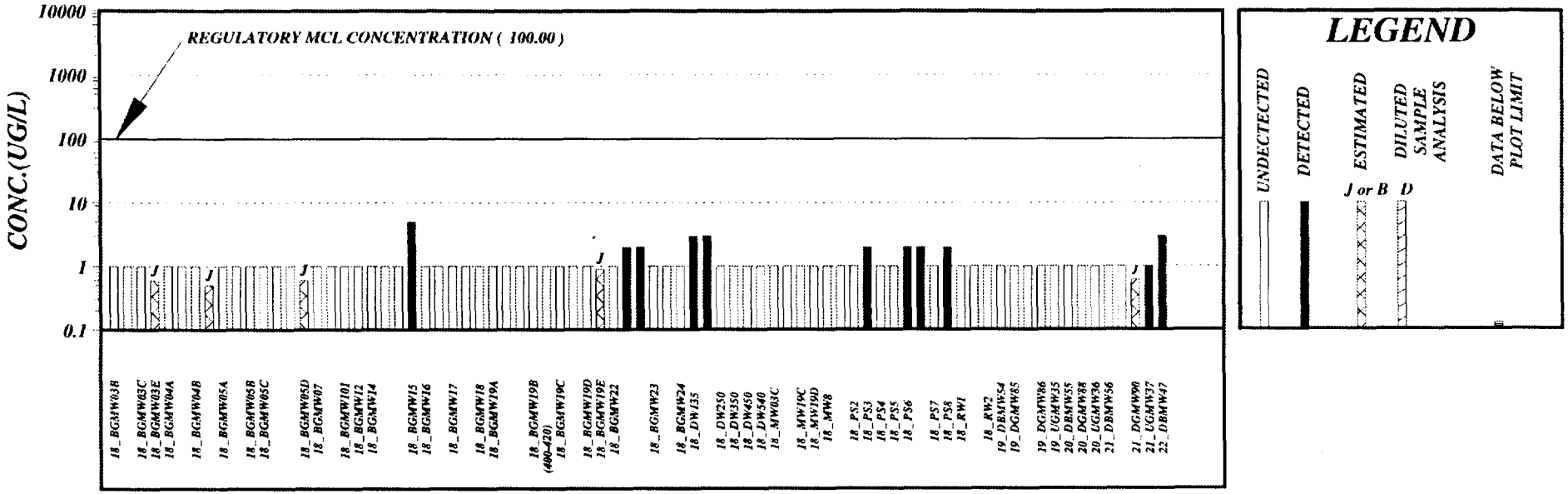



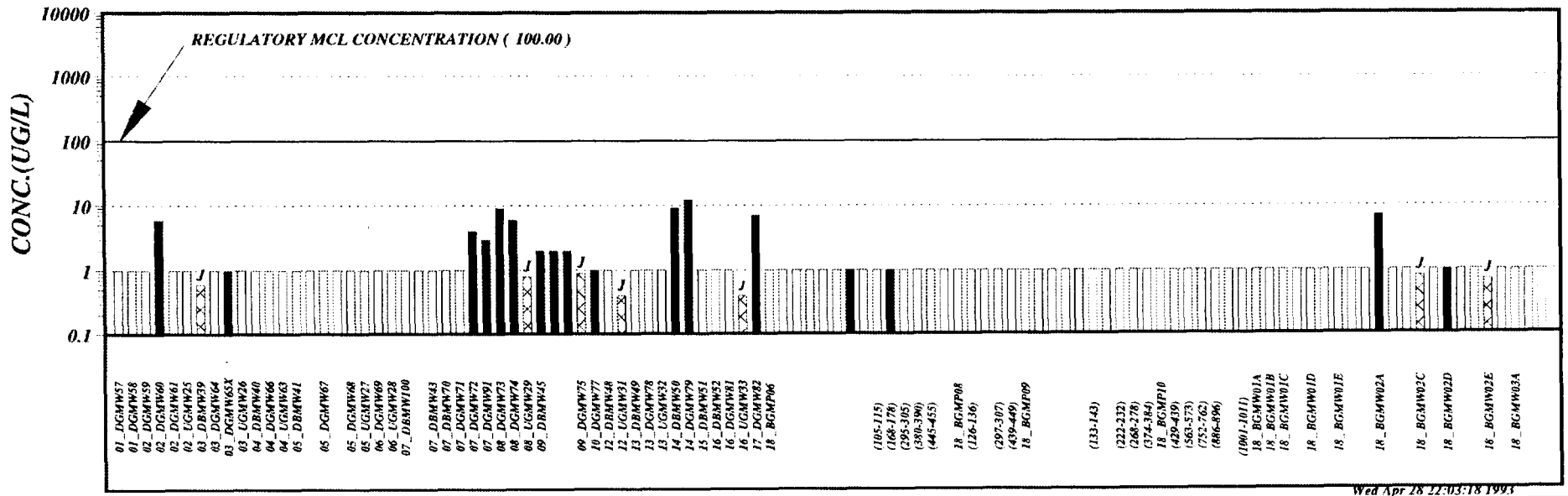




Wed Apr 28 22:01:47 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

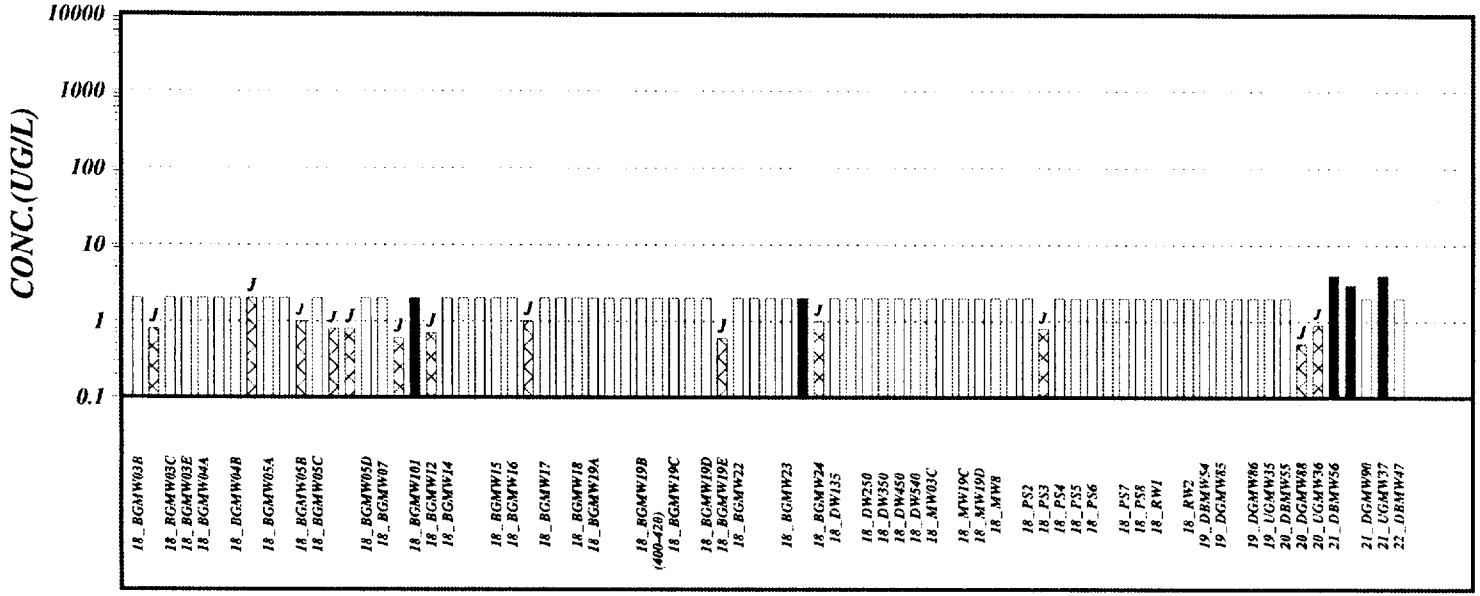
## CHLOROFORM Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)

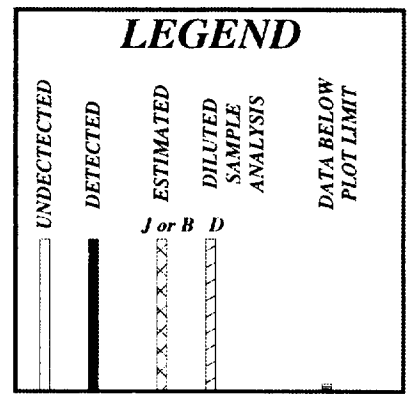


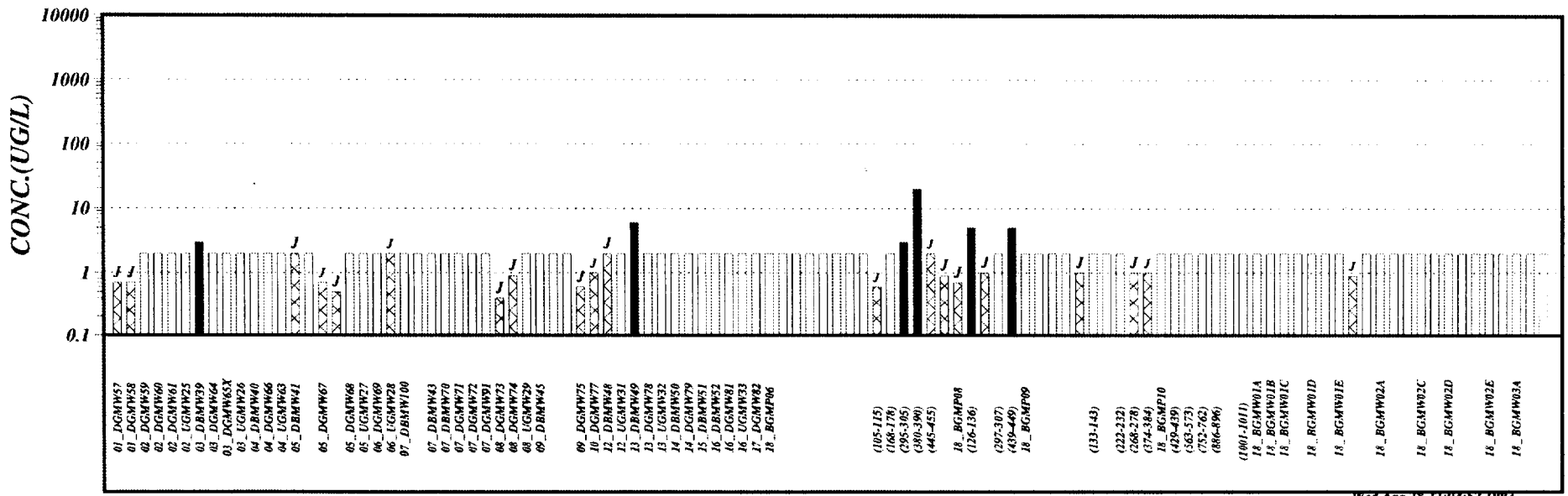



# MCAS EL TORO Phase 1 RI Technical Memorandum

## CHLOROMETHANE (METHYL CHLORIDE) Concentration in Ground Water-Sampling Duration(06/0



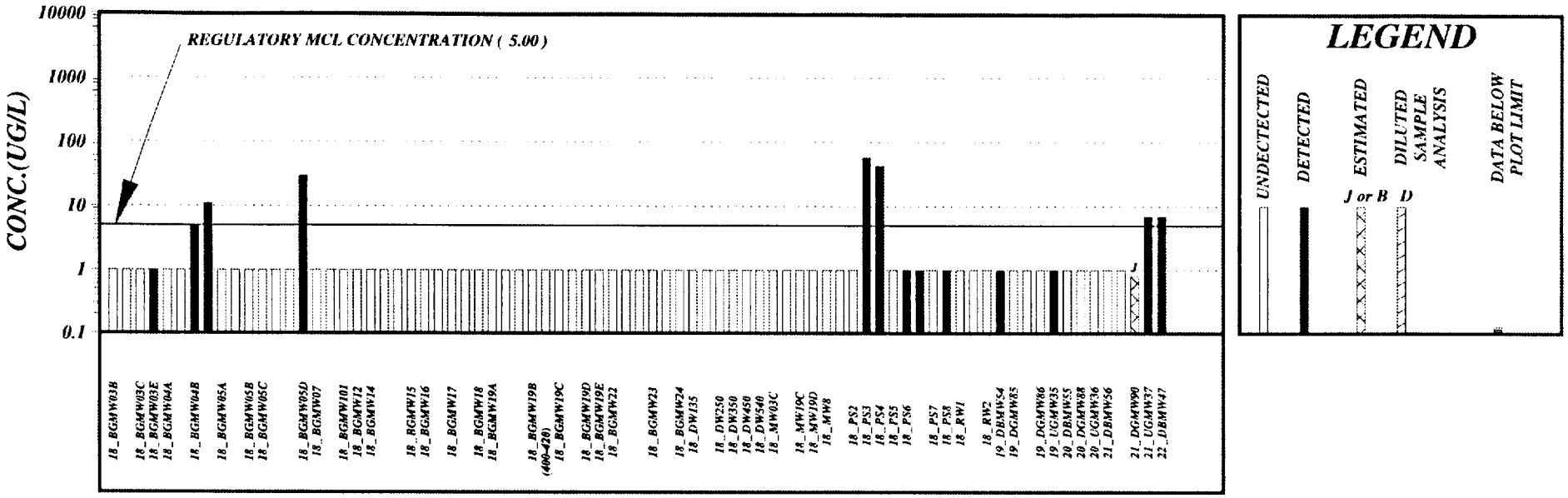



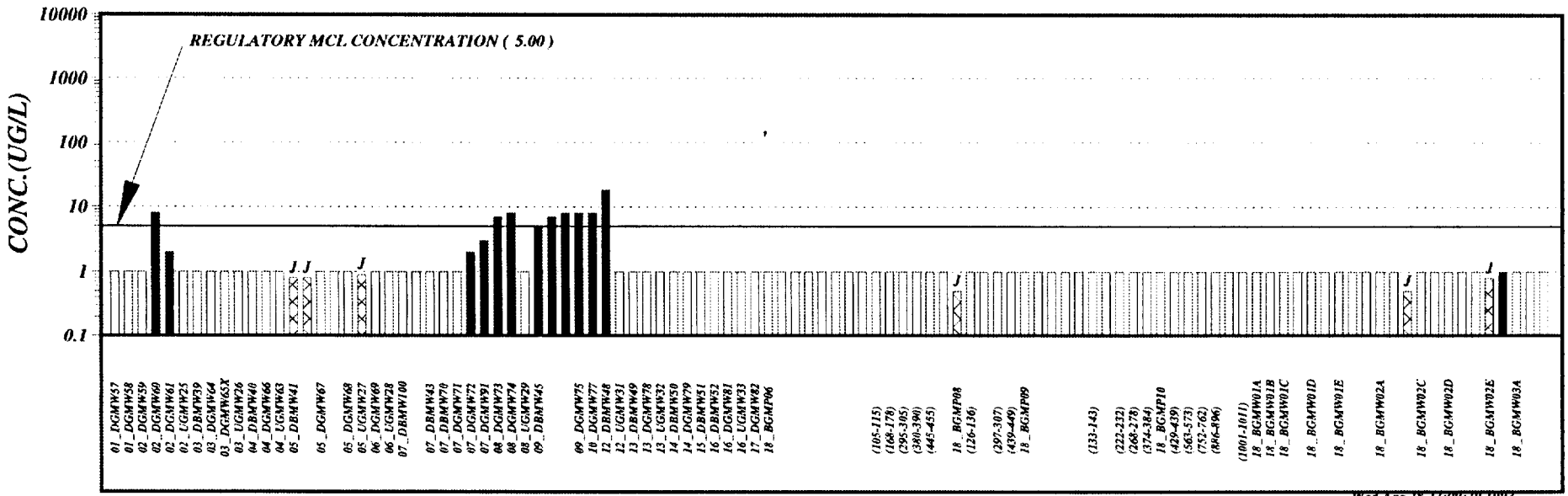




Wed Apr 28 22:04:53 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

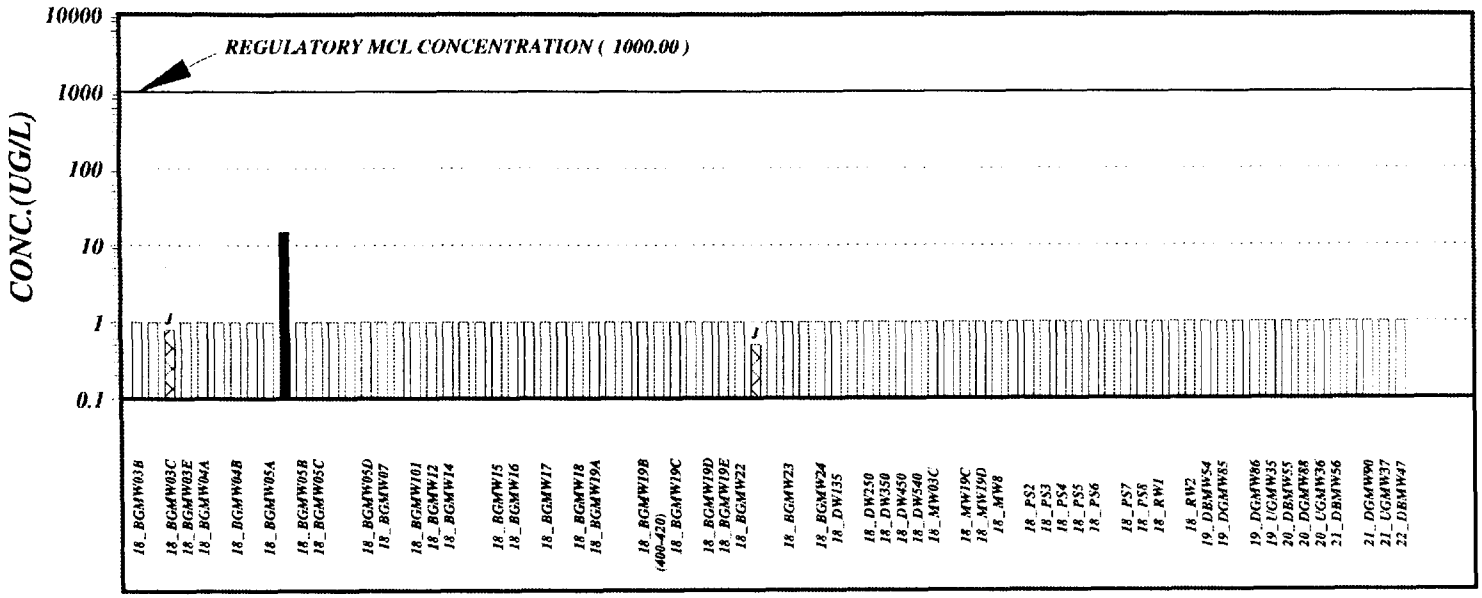
## TETRACHLOROETHENE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)

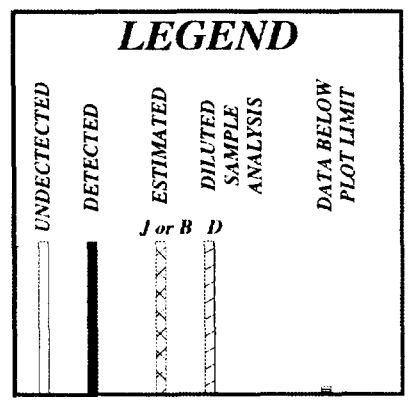


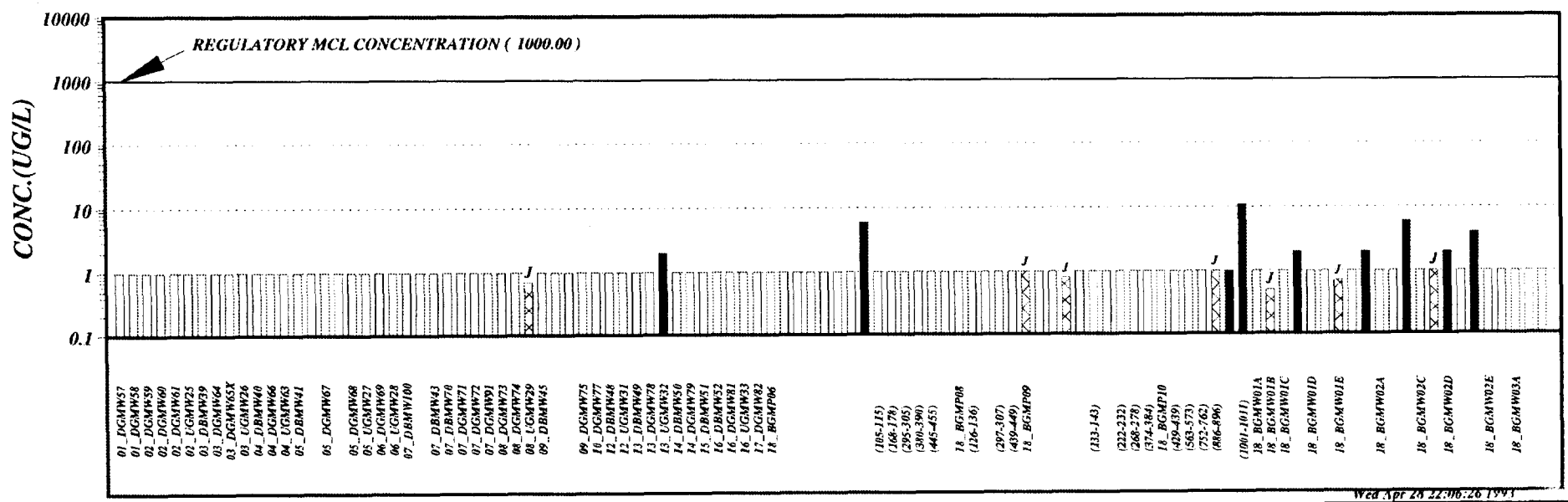



# MCAS EL TORO Phase 1 RI Technical Memorandum

## TOLUENE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)

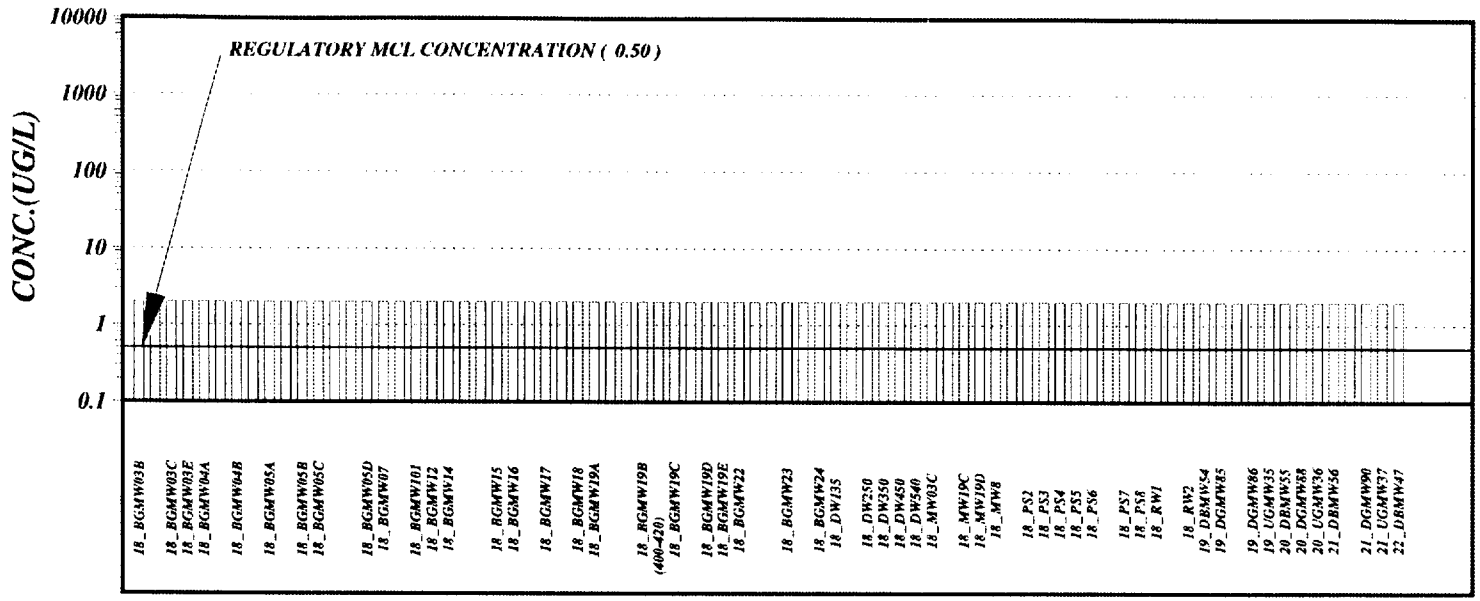


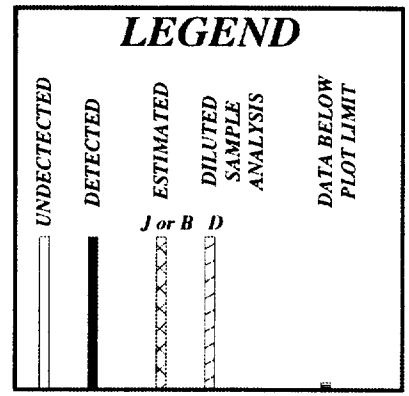



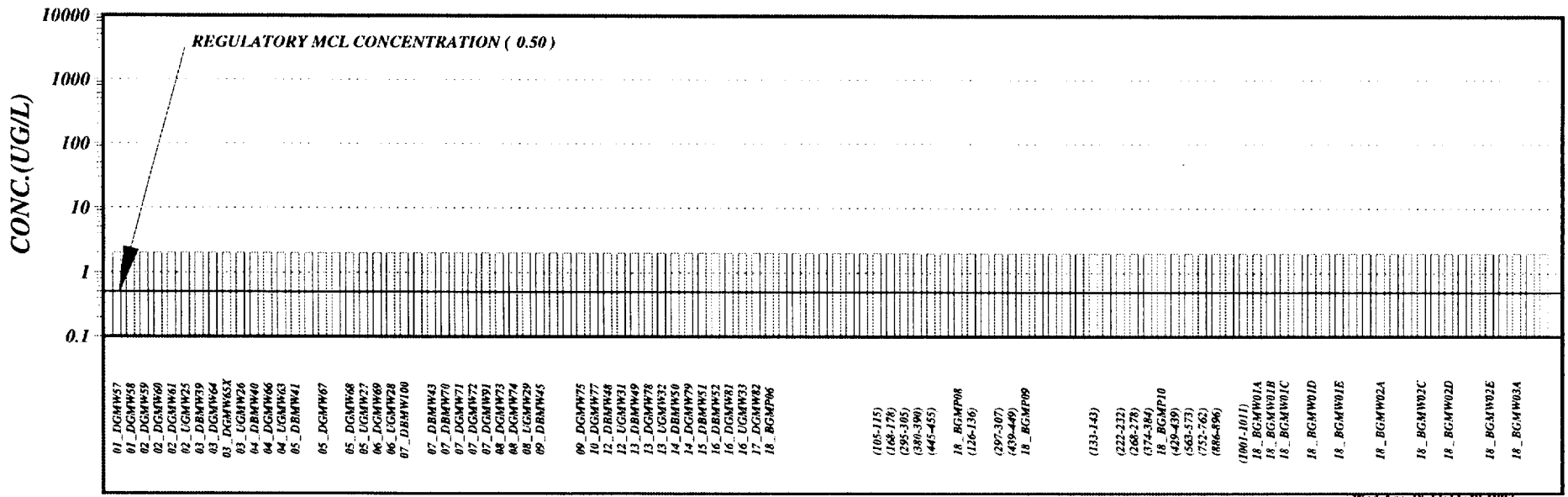



# MCAS EL TORO Phase 1 RI Technical Memorandum

## VINYL CHLORIDE Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)

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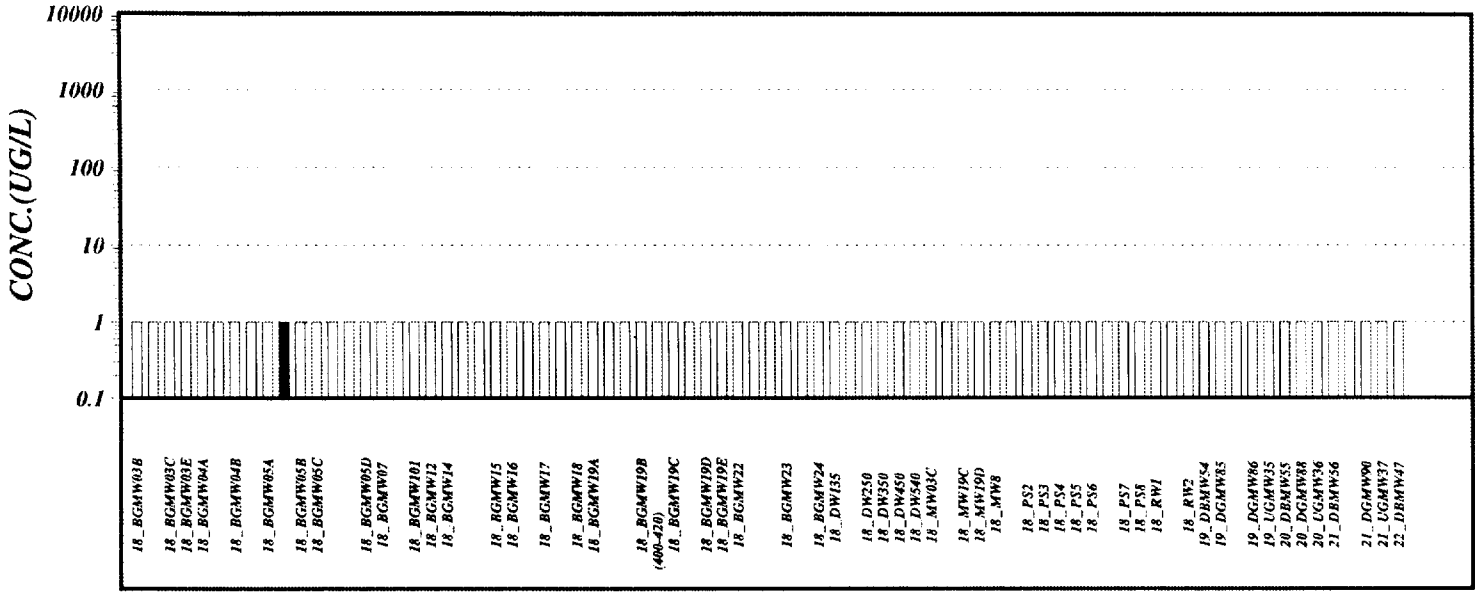
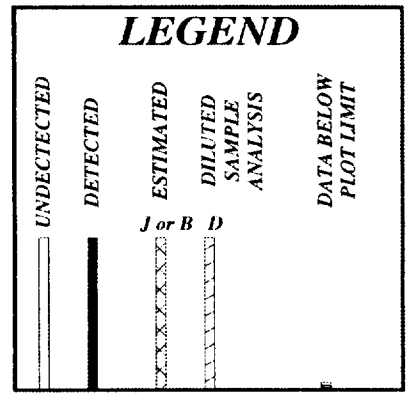
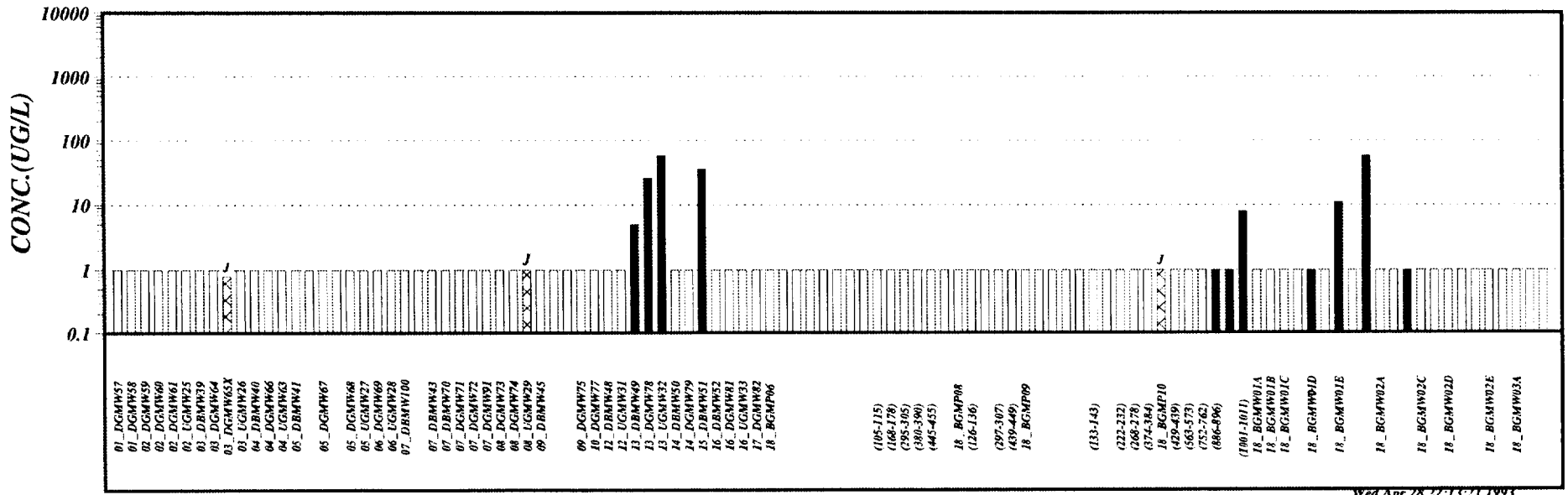
# MCAS EL TORO Phase 1 RI Technical Memorandum

## XYLENE (TOTAL) Concentration in Ground Water-Sampling Duration (06/04/92-02/08/93)



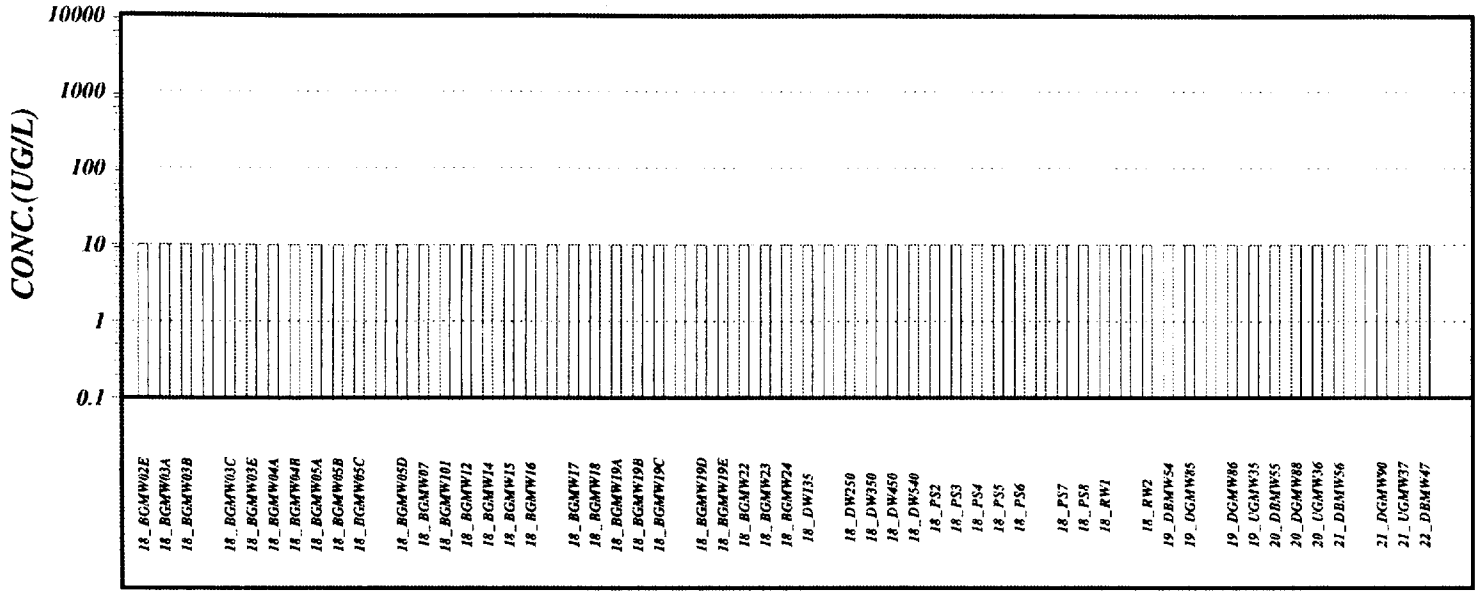



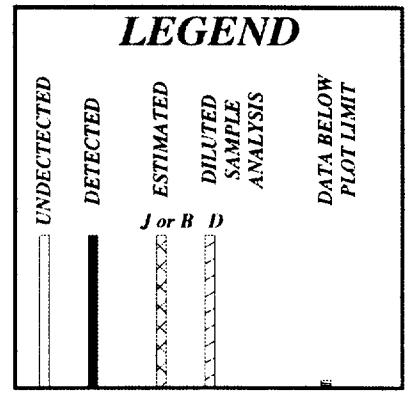



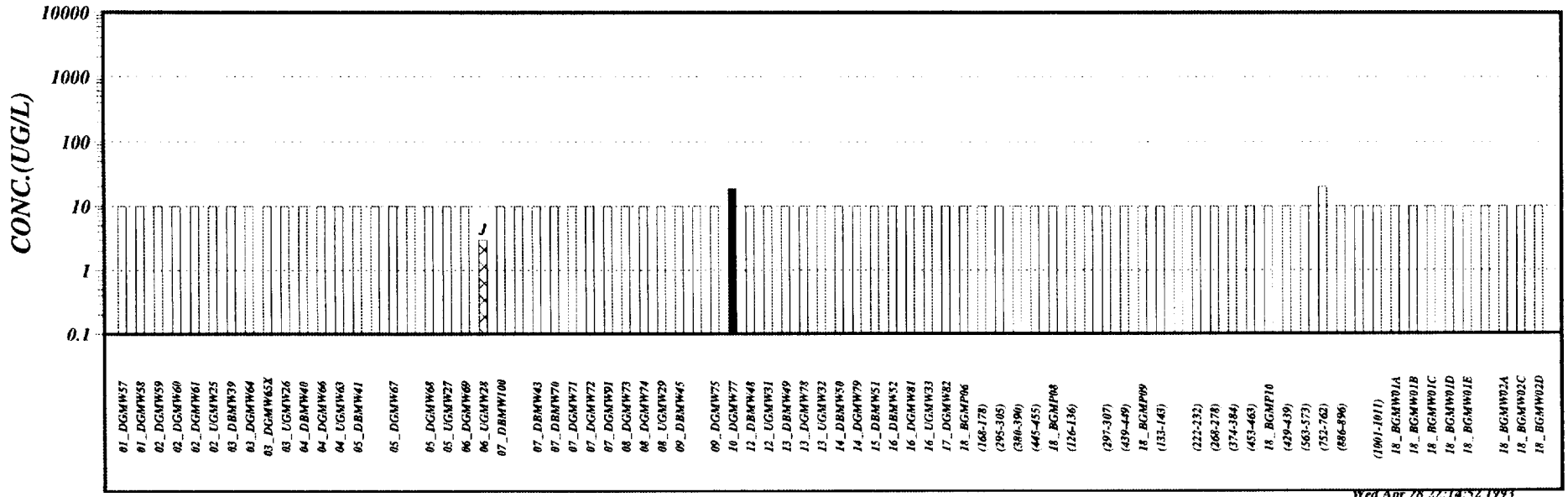

Wed Apr 28 22:13:21 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## BENZYL BUTYL PHTHALATE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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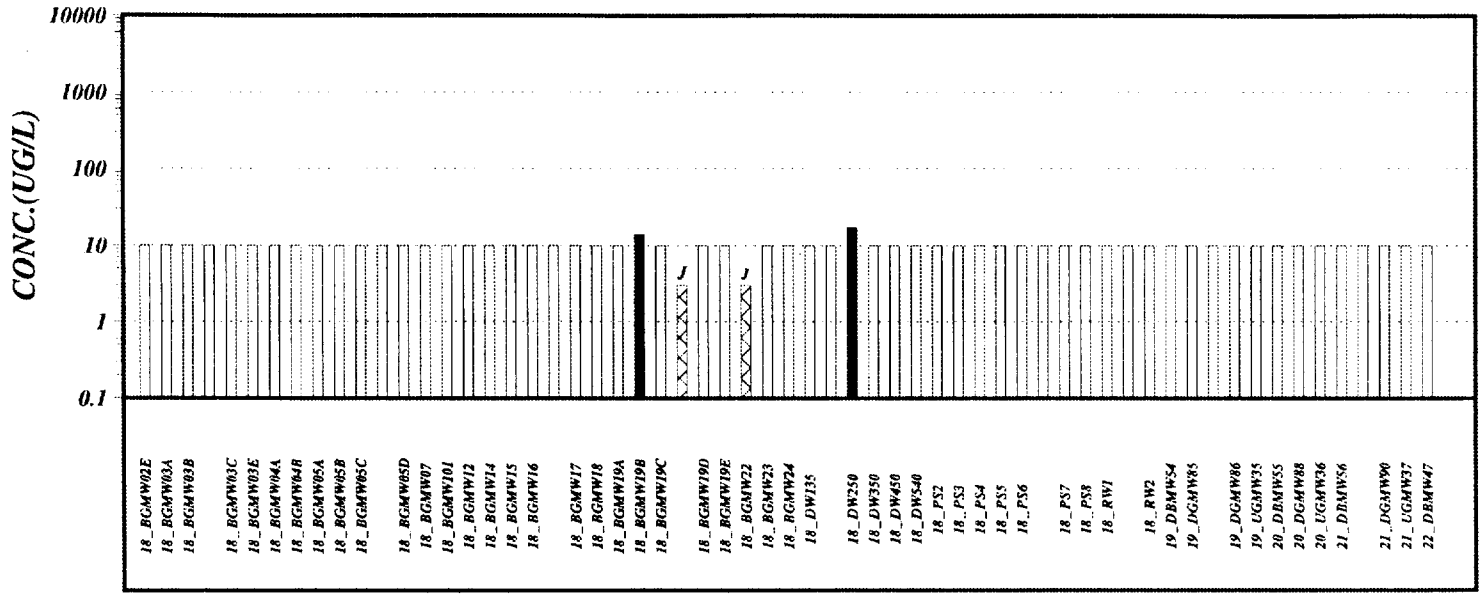
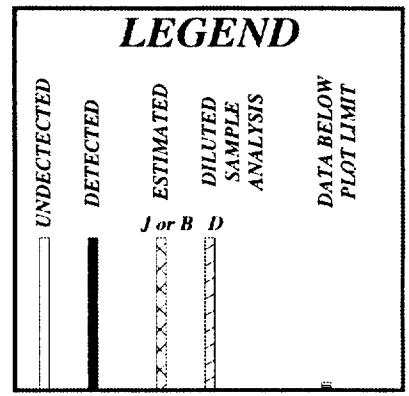
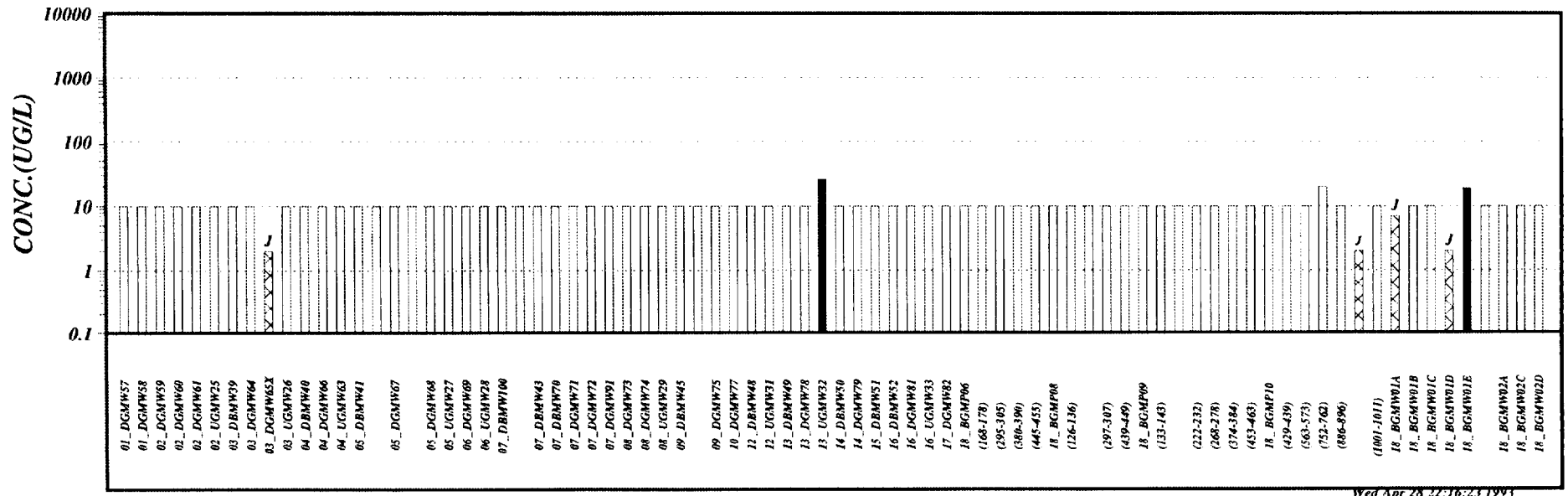
# MCAS EL TORO Phase 1 RI Technical Memorandum

## BIS(2-ETHYLHEXYL)PHTHALATE Concentration in Ground Water-Sampling Duration(09/21/92-02/

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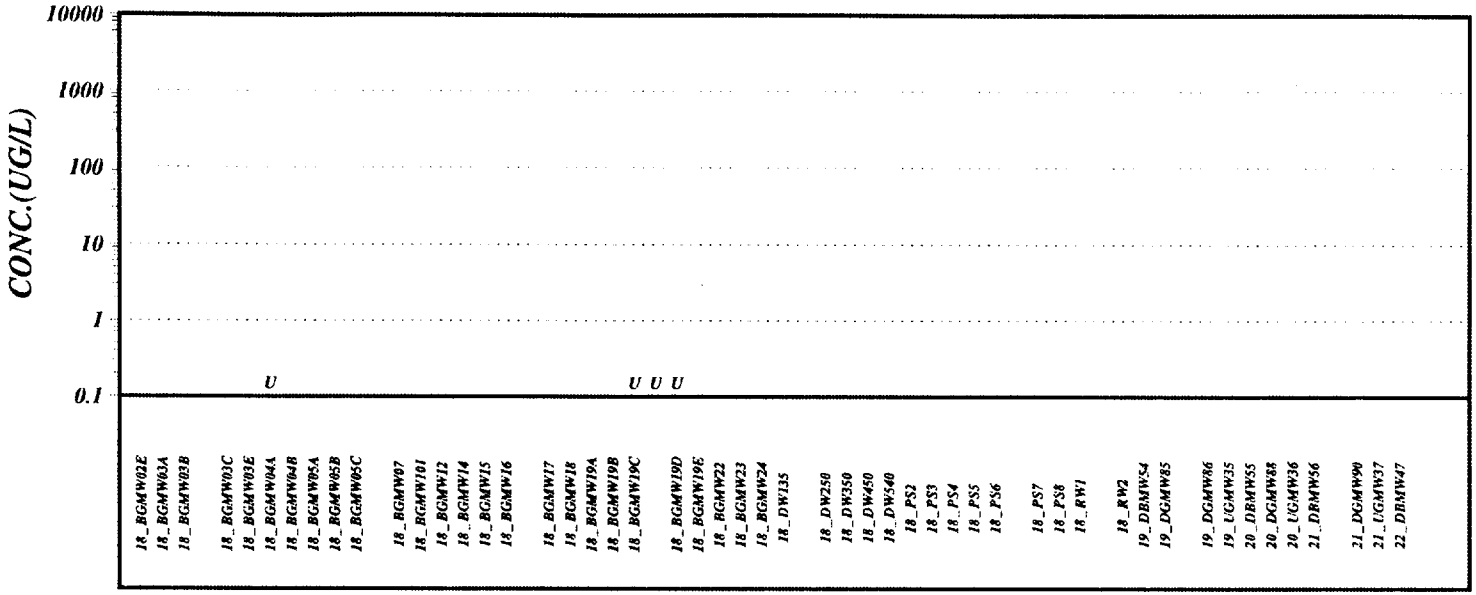
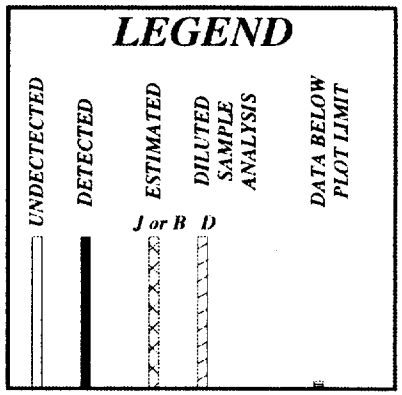
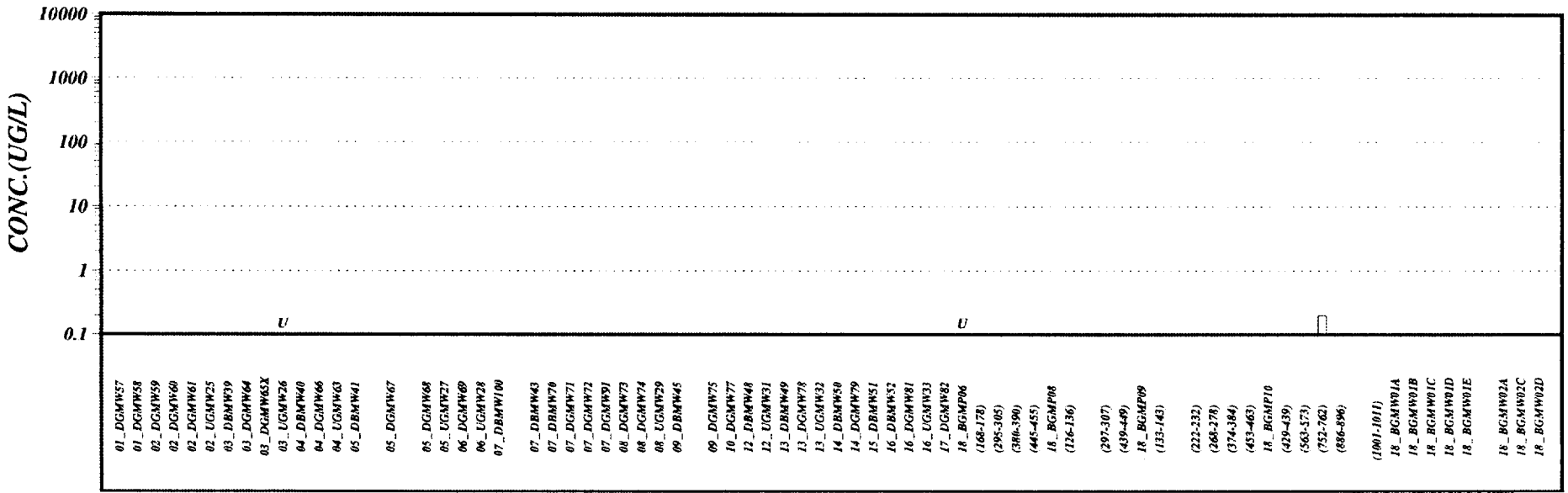
# MCAS EL TORO Phase 1 RI Technical Memorandum

## 4,4'-DDE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)




Wed Apr 28 22:17:53 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## 4,4'-DDT Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)





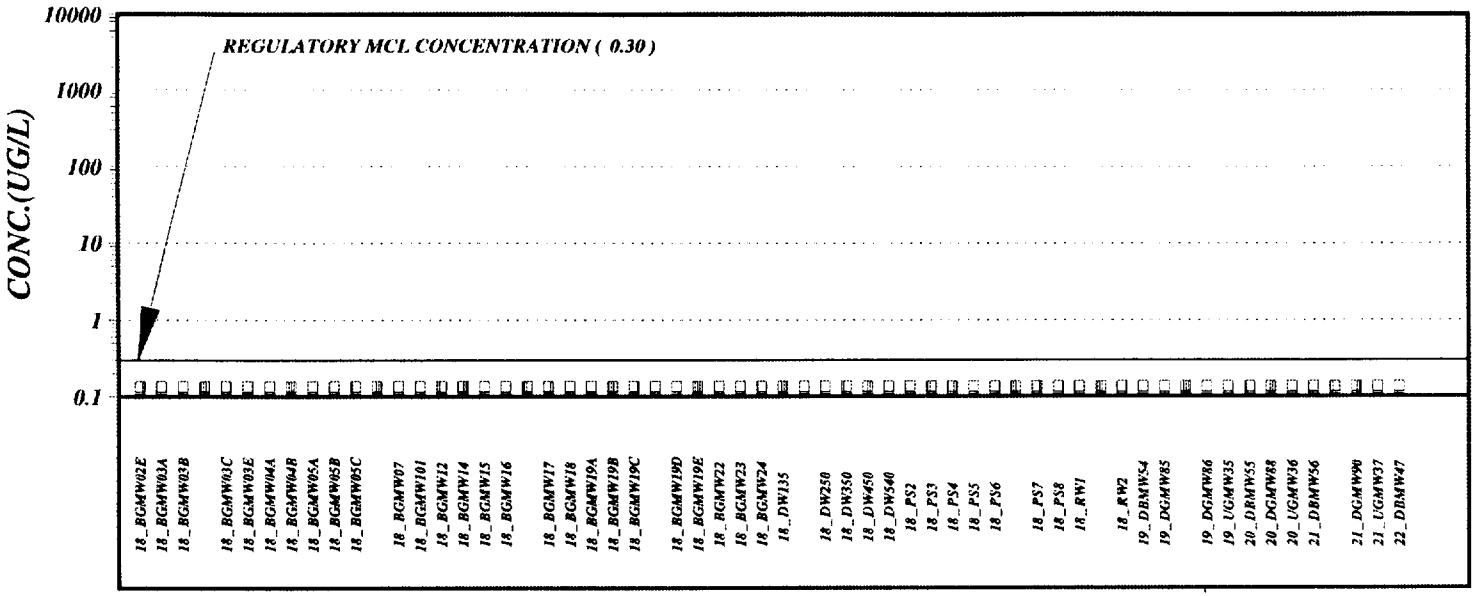


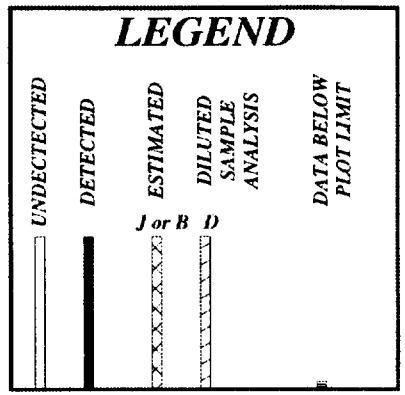


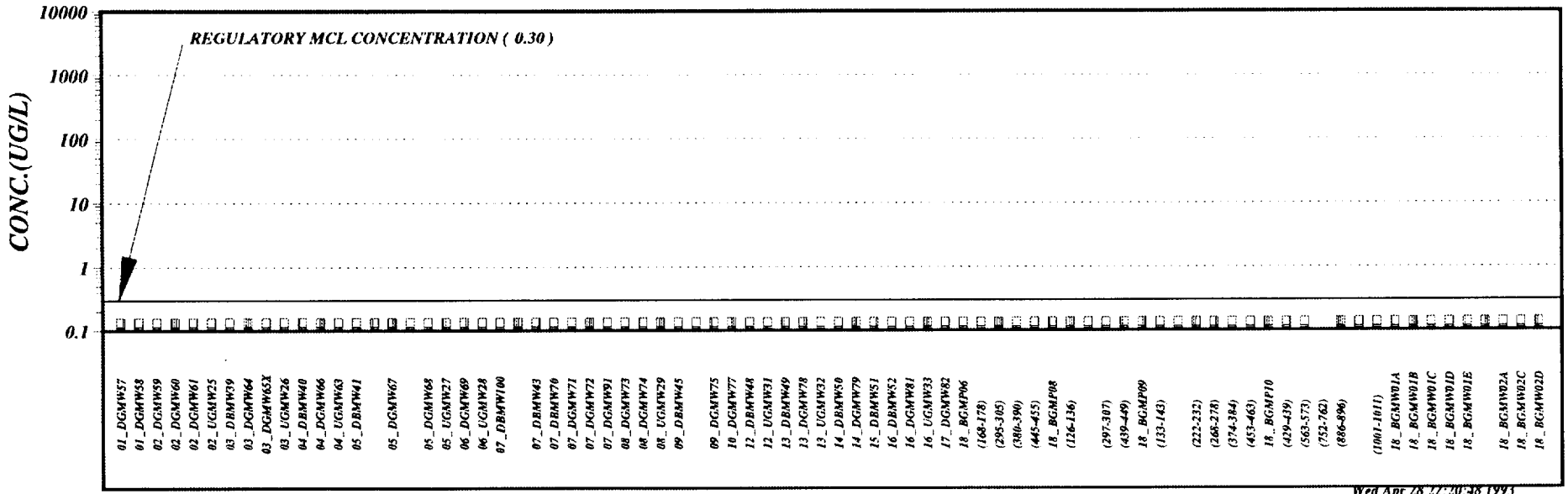

Wed Apr 28 22:19:20 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## BHC-BETA Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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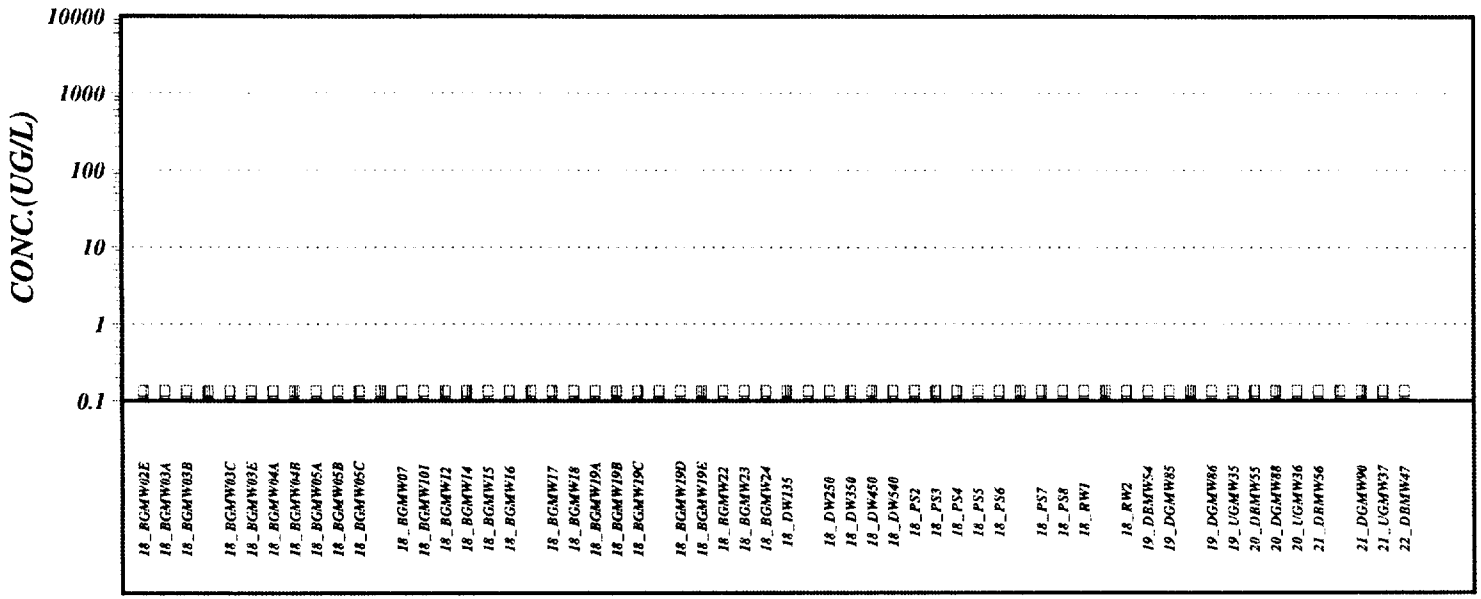
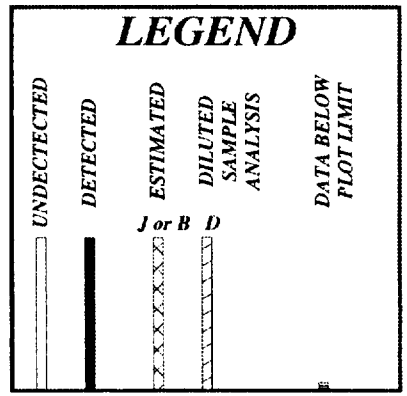
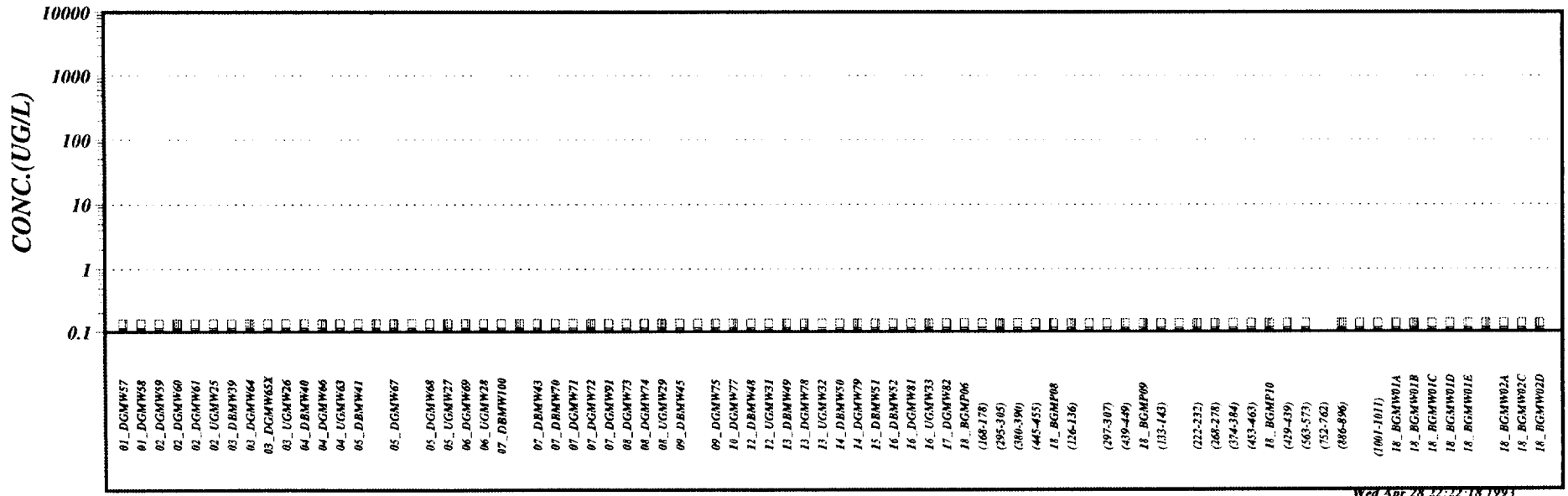
# MCAS EL TORO Phase 1 RI Technical Memorandum

## GAMMA-CHLORDANE Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

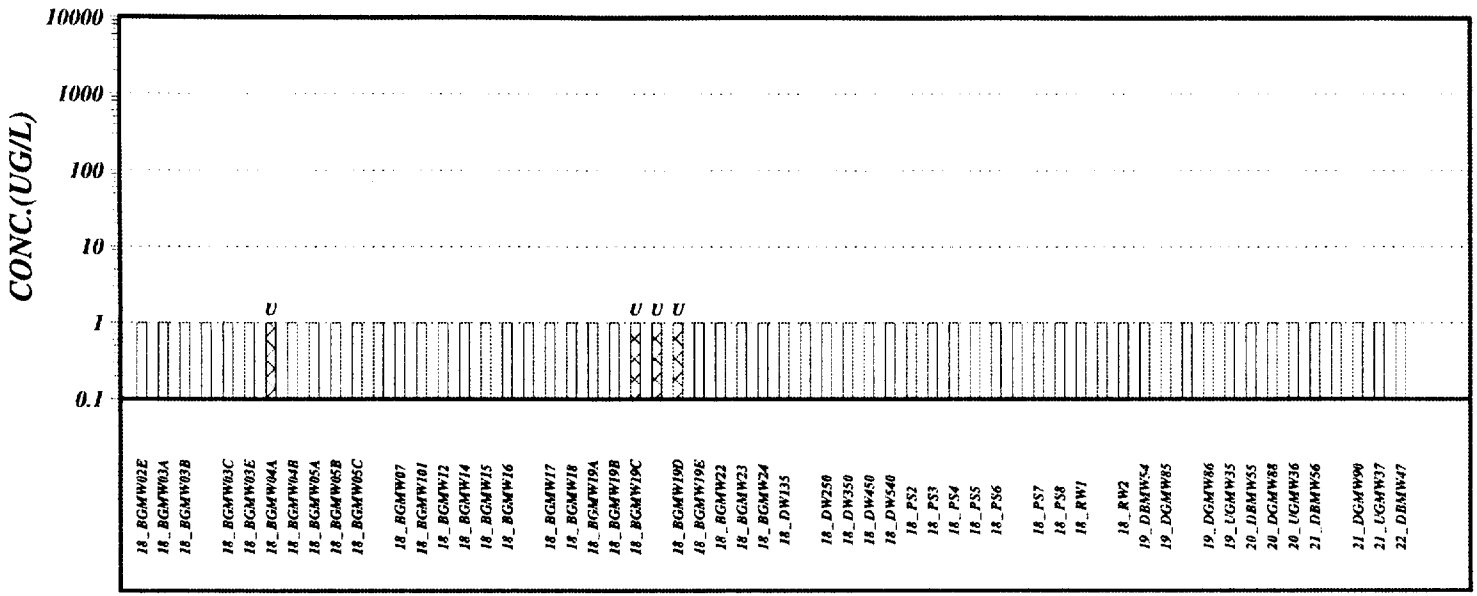


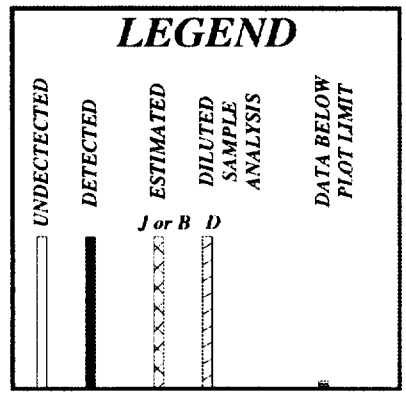



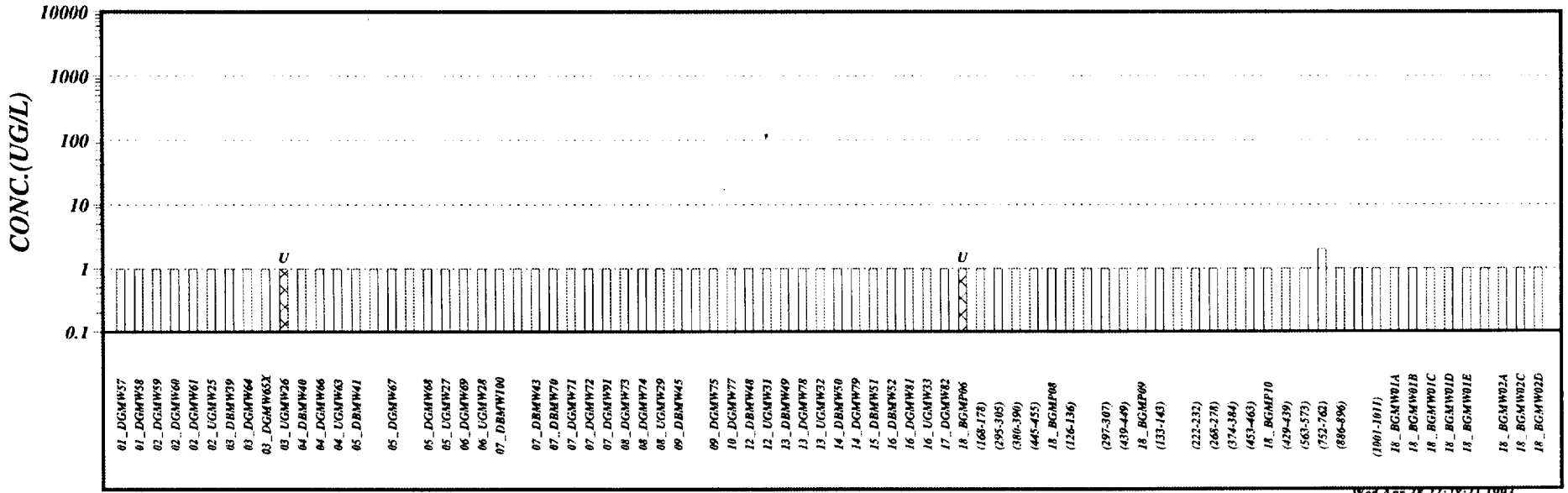



# MCAS EL TORO Phase 1 RI Technical Memorandum

## PCB-1016 Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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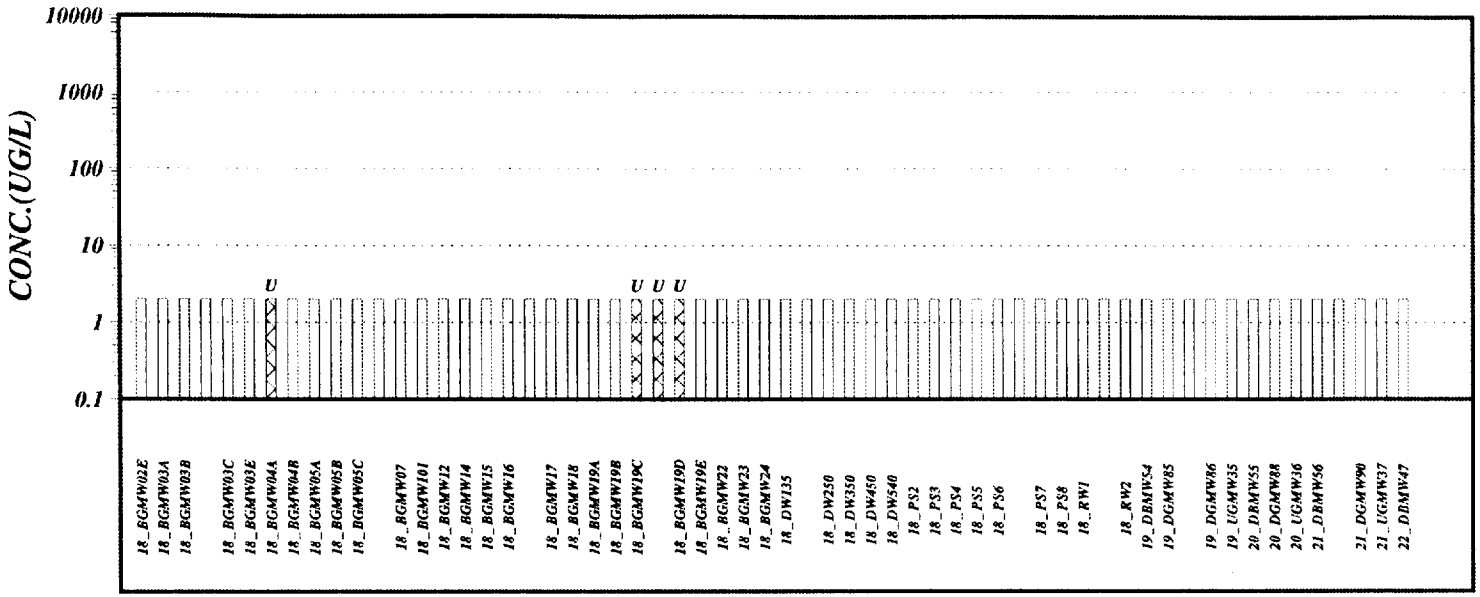
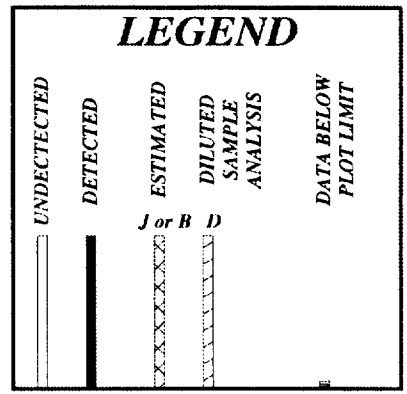
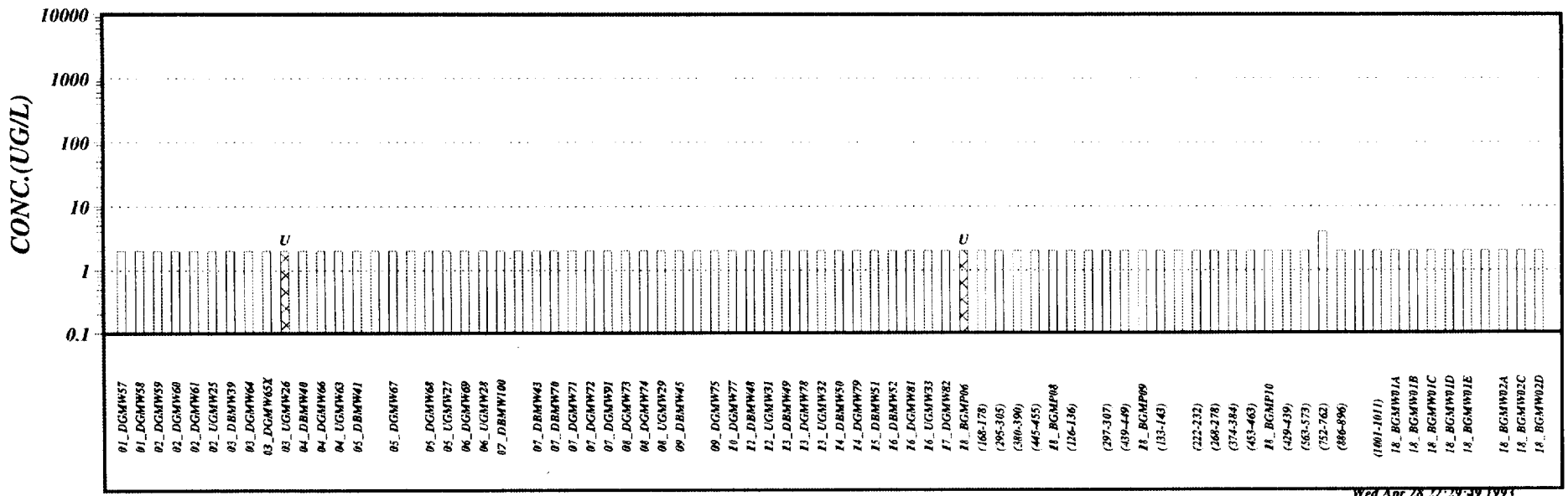
# MCAS EL TORO Phase 1 RI Technical Memorandum

## PCB-1221 Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)



# MCAS EL TORO Phase 1 RI Technical Memorandum

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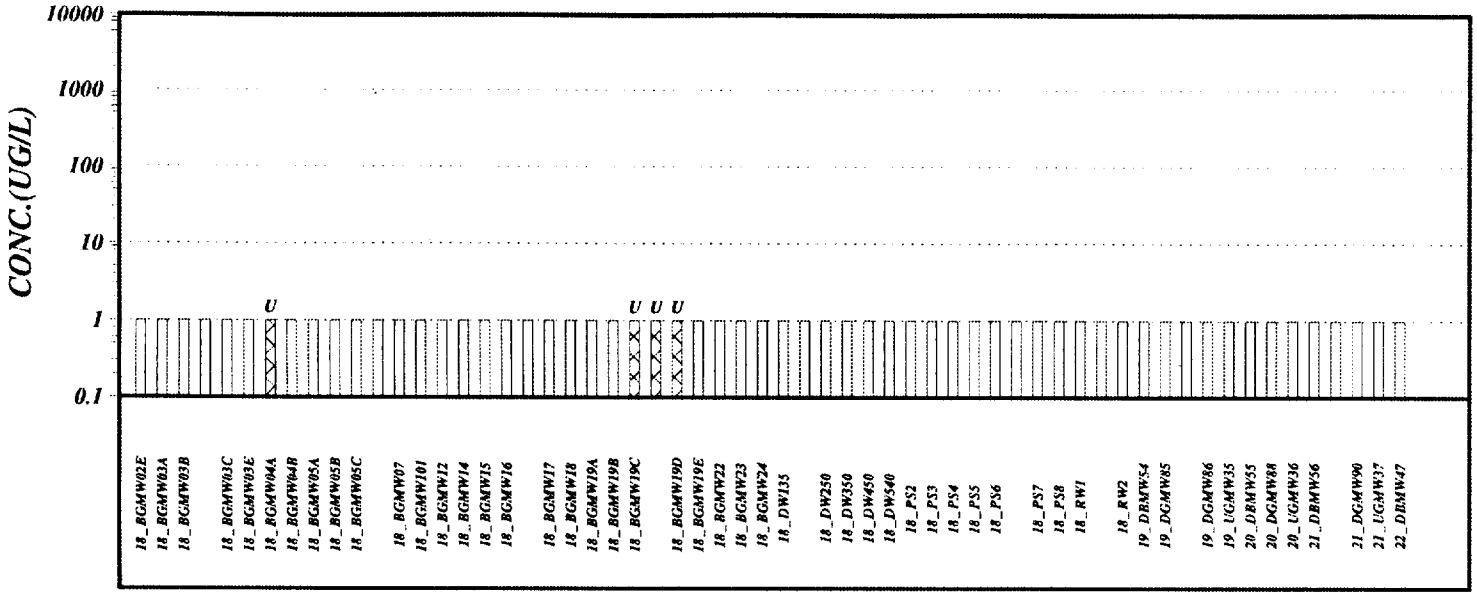


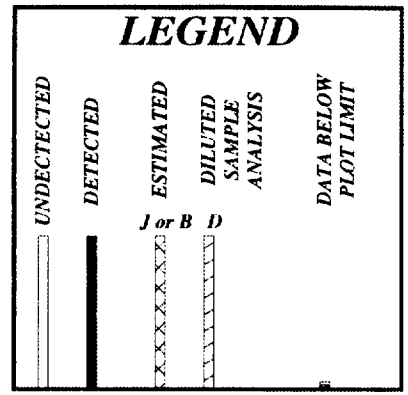


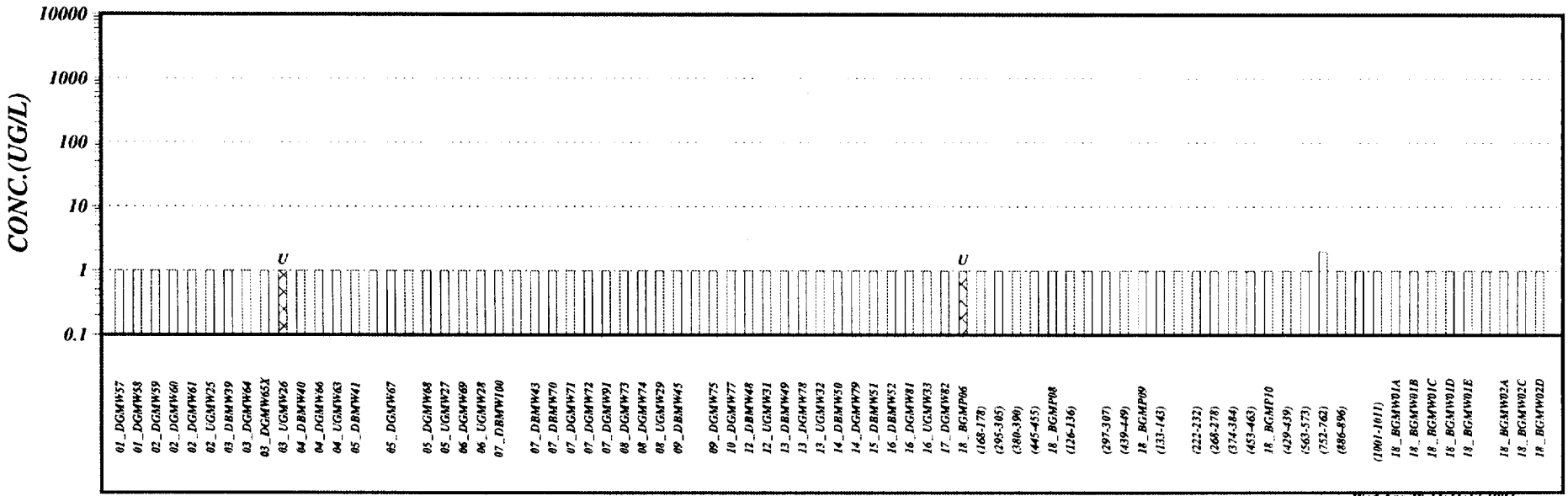


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# MCAS EL TORO Phase 1 RI Technical Memorandum

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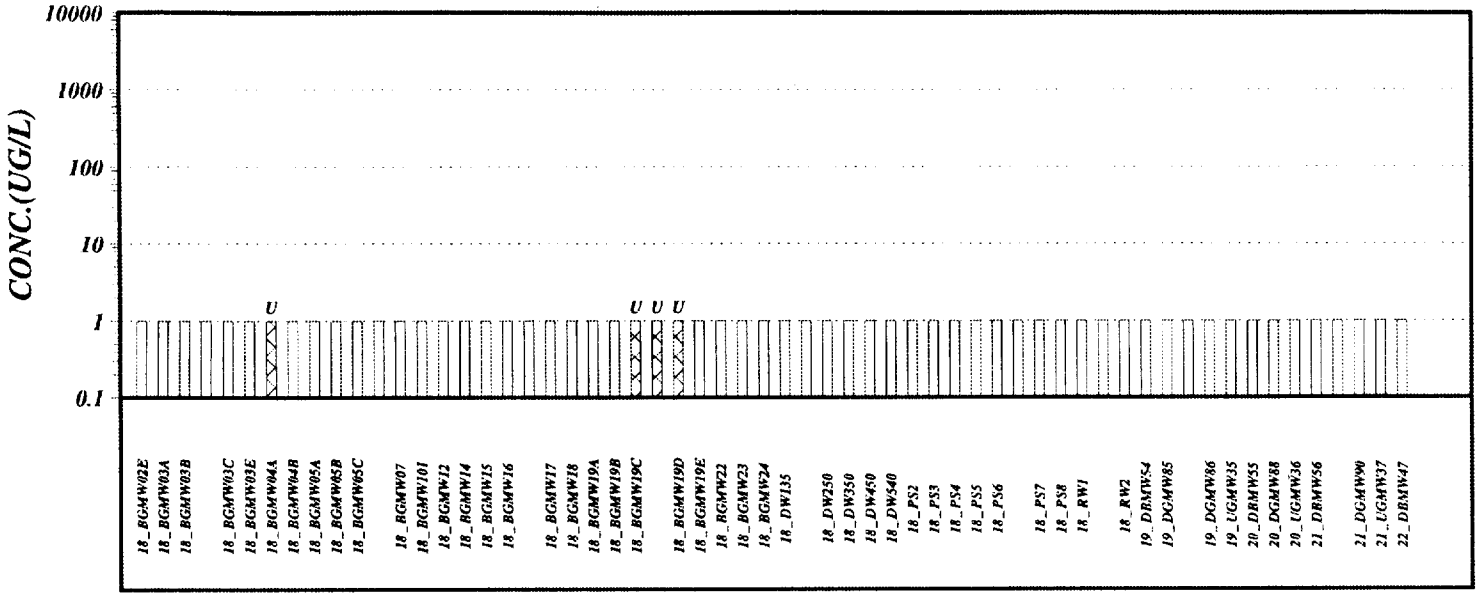


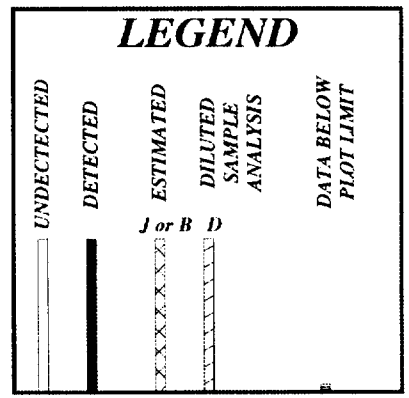


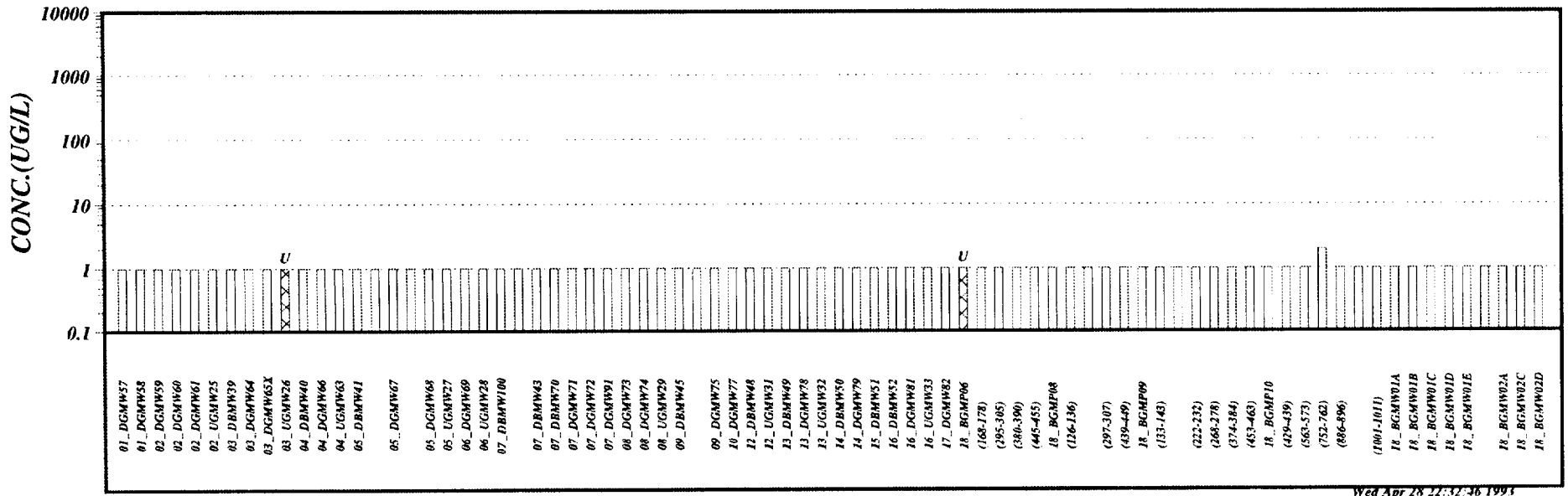


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# MCAS EL TORO Phase 1 RI Technical Memorandum

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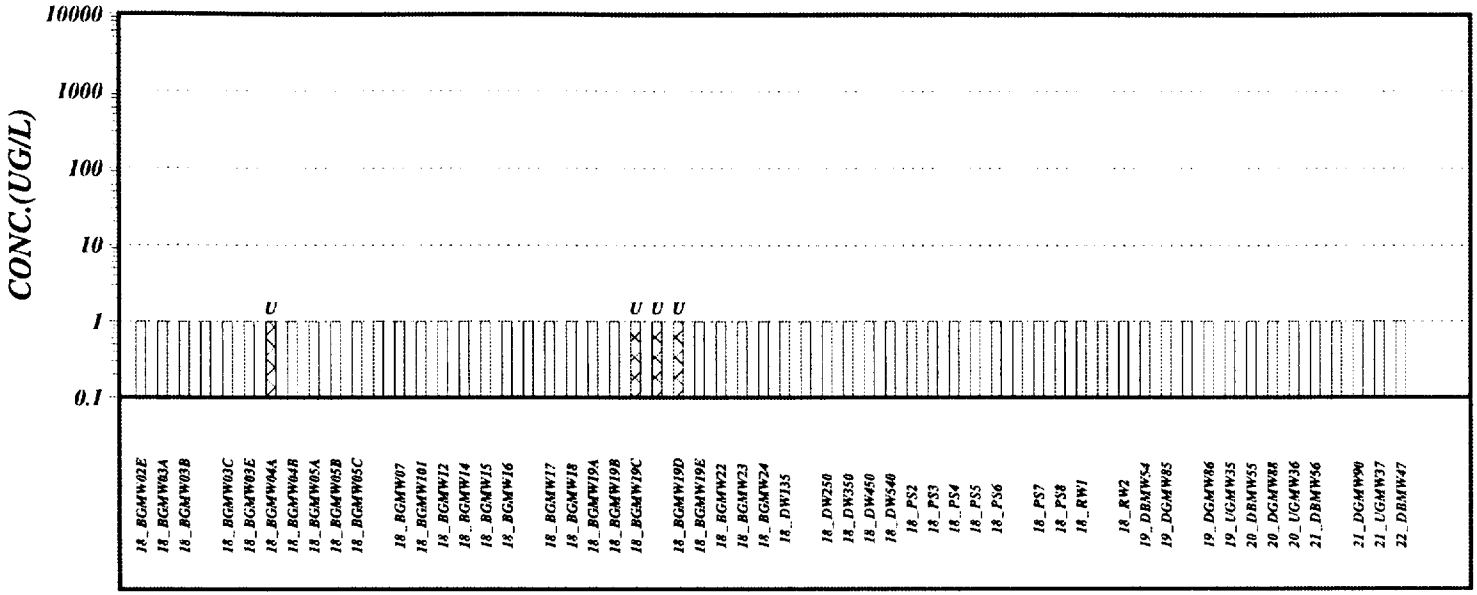


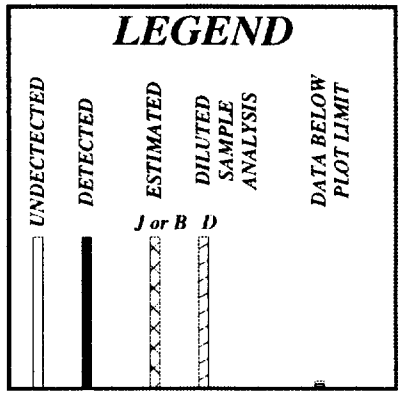


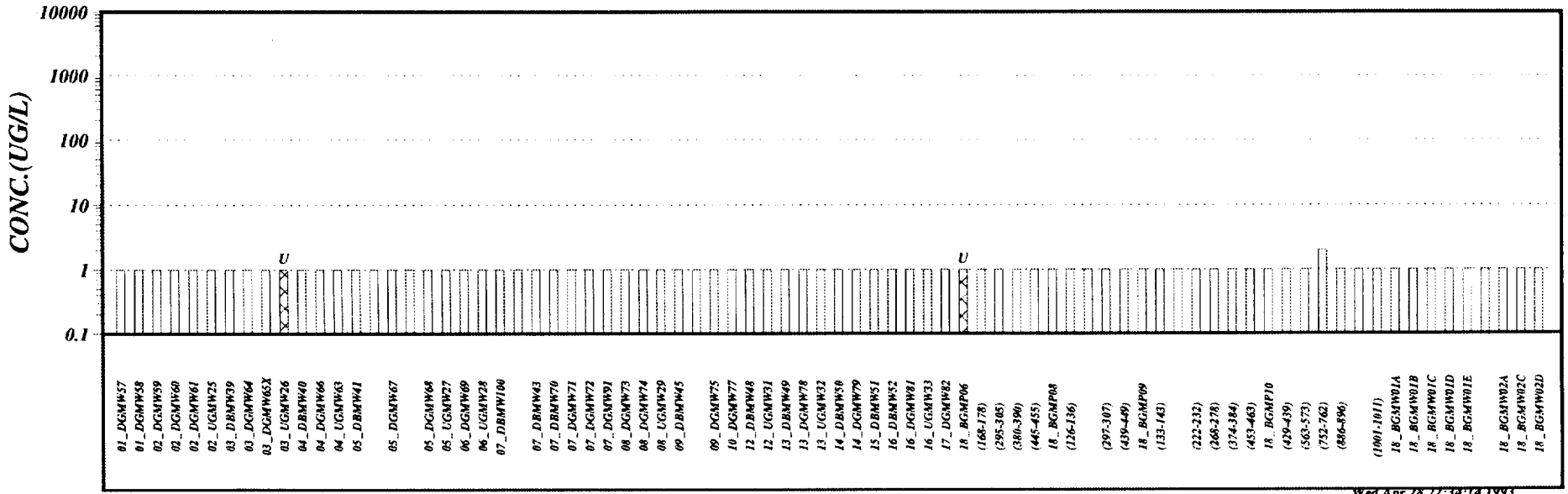


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# MCAS EL TORO Phase 1 RI Technical Memorandum

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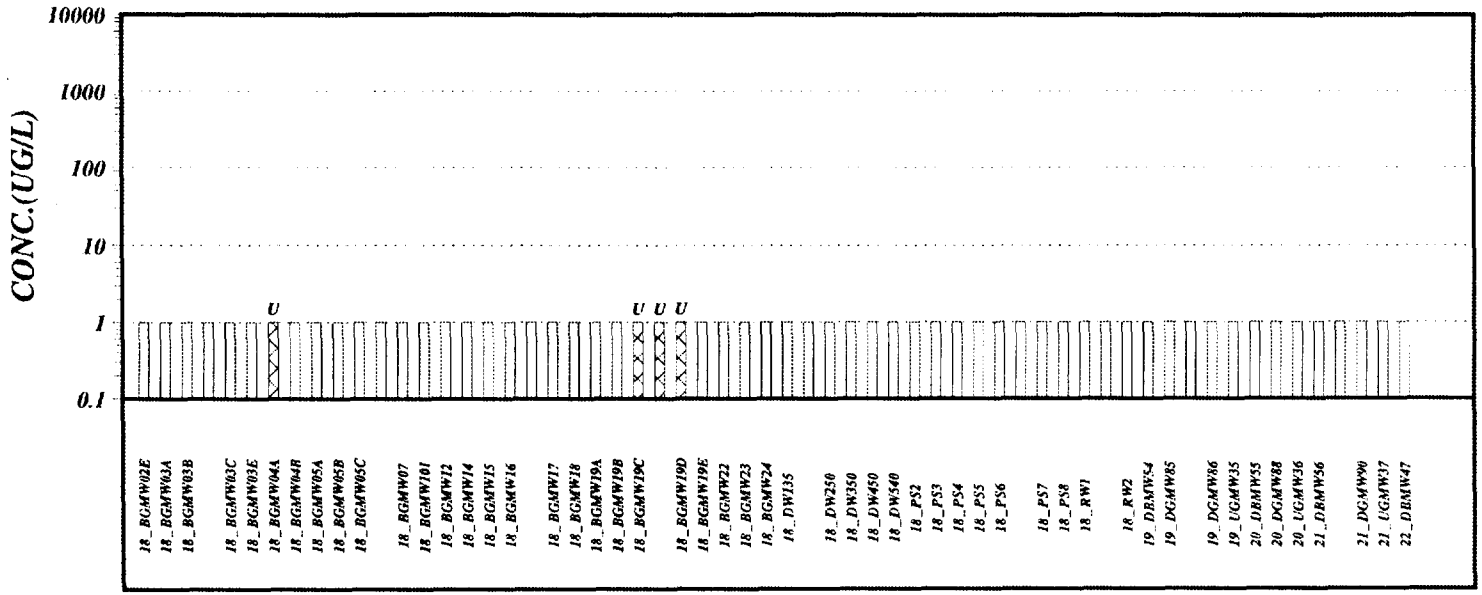


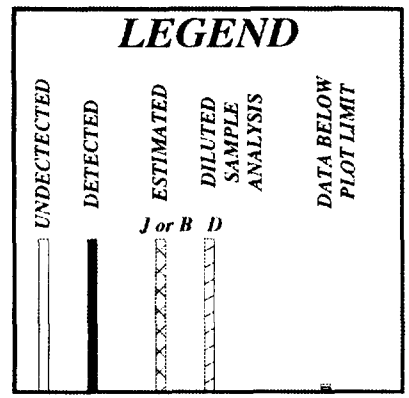


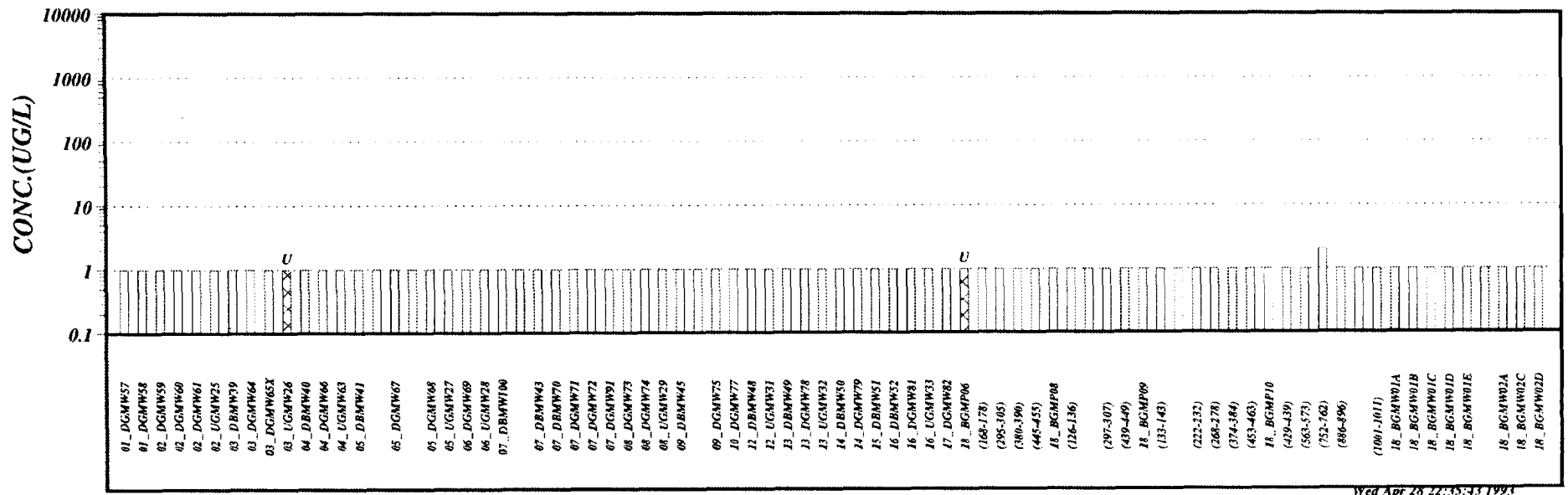

# MCAS EL TORO Phase 1 RI Technical Memorandum

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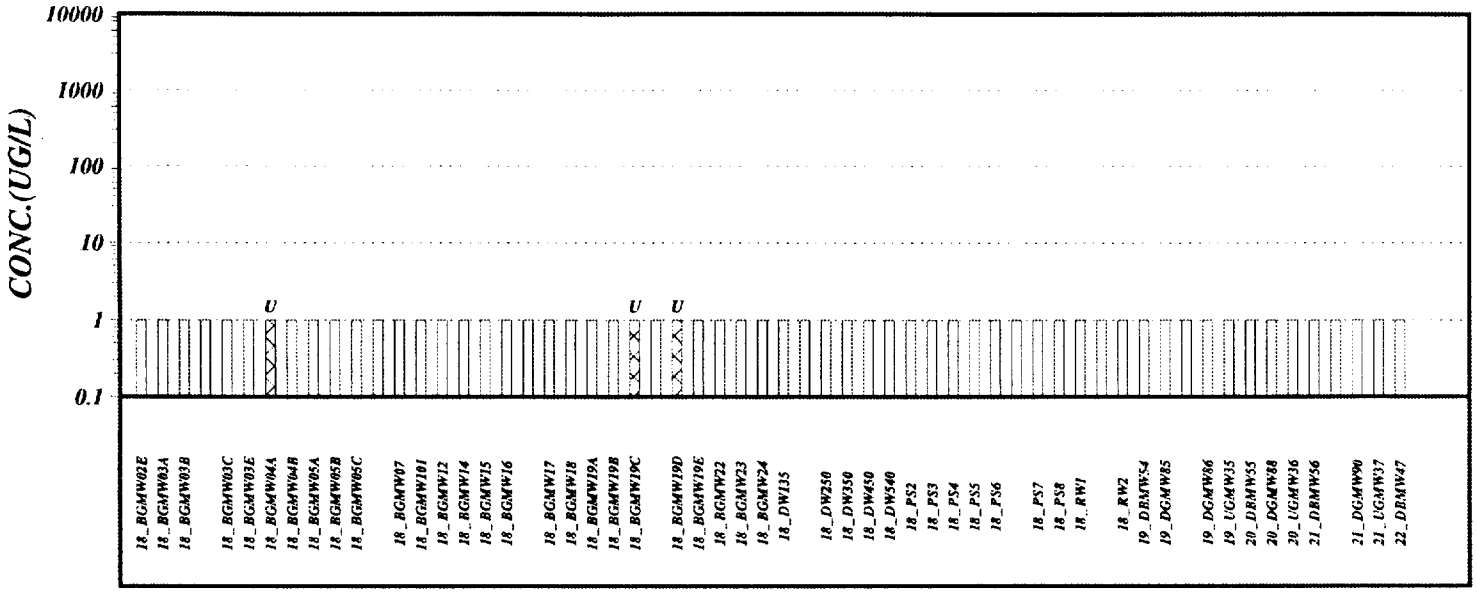


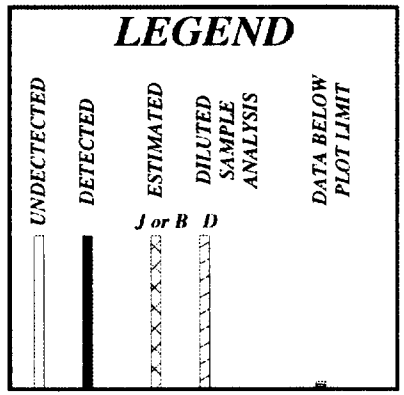


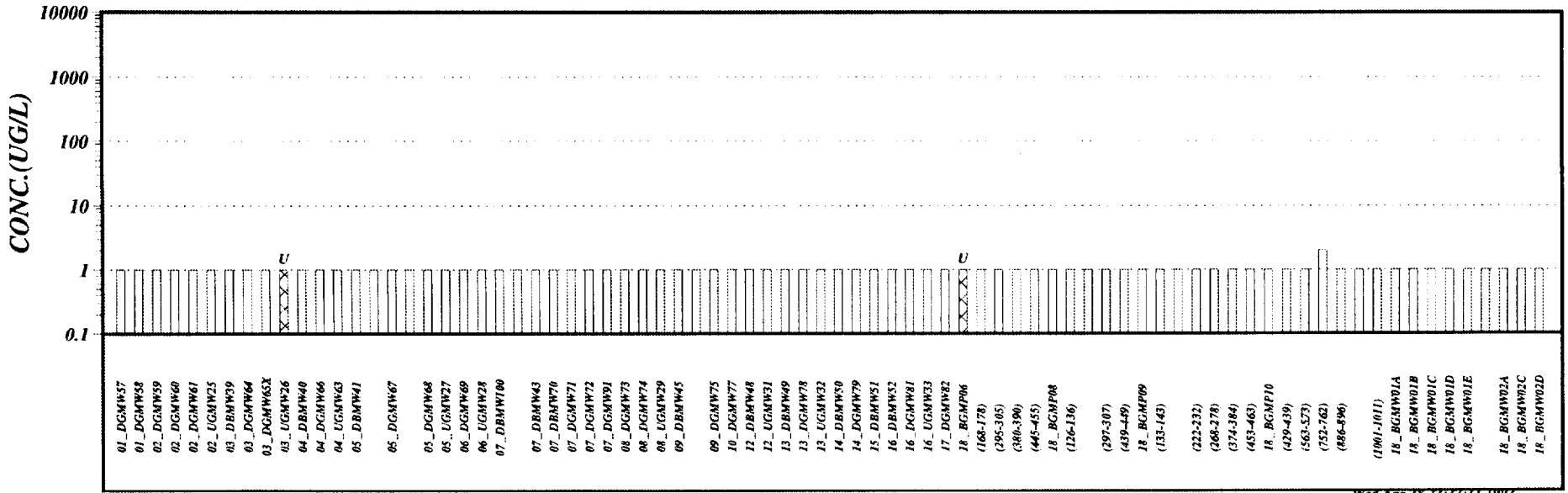


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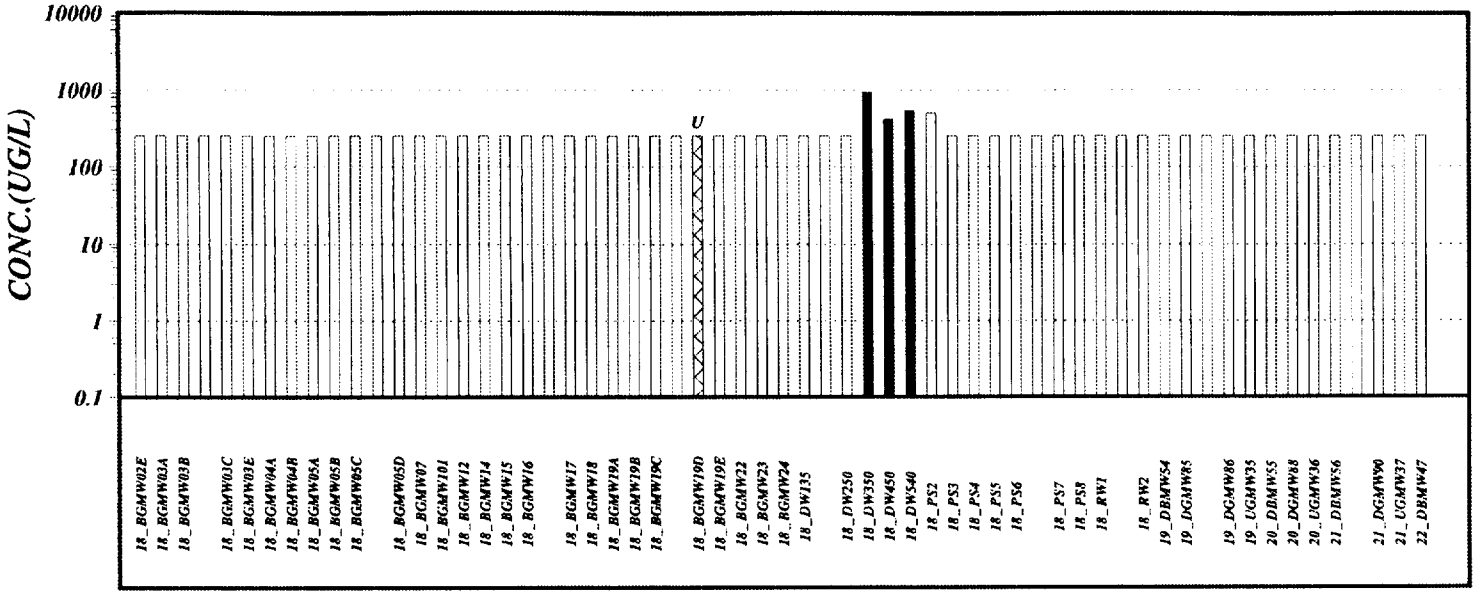
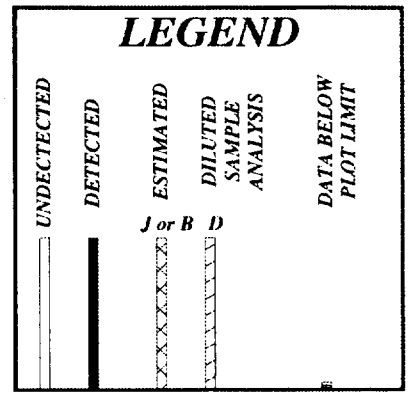
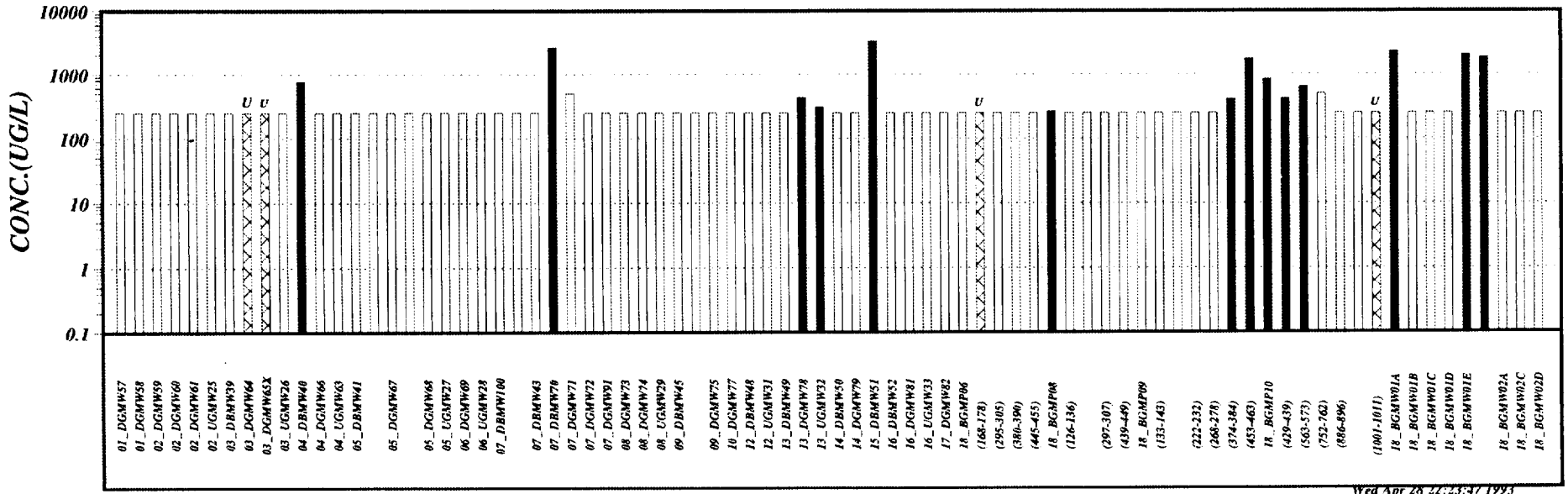
# MCAS EL TORO Phase 1 RI Technical Memorandum

## TPH DIESEL Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)

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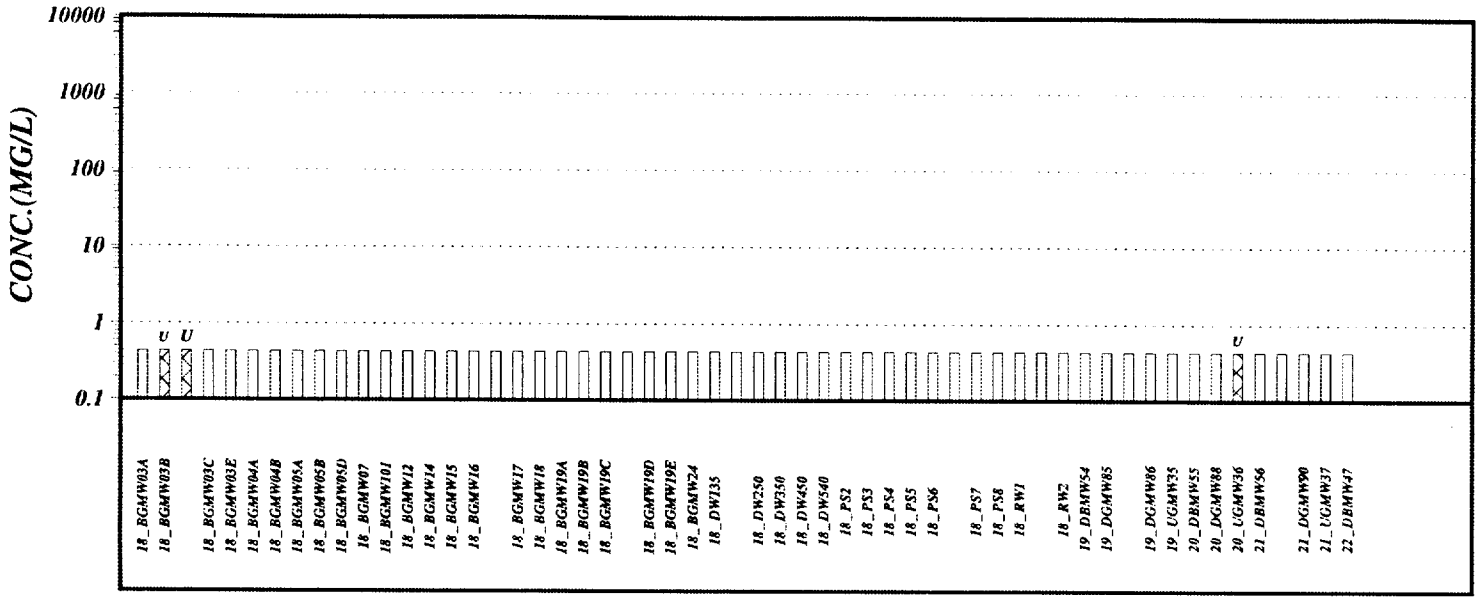
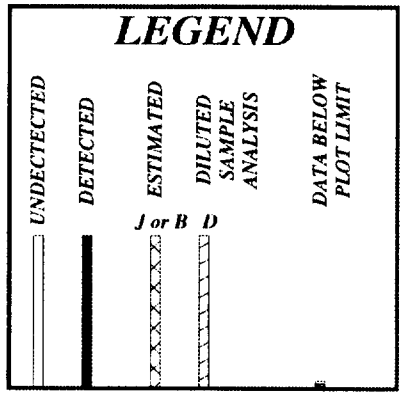
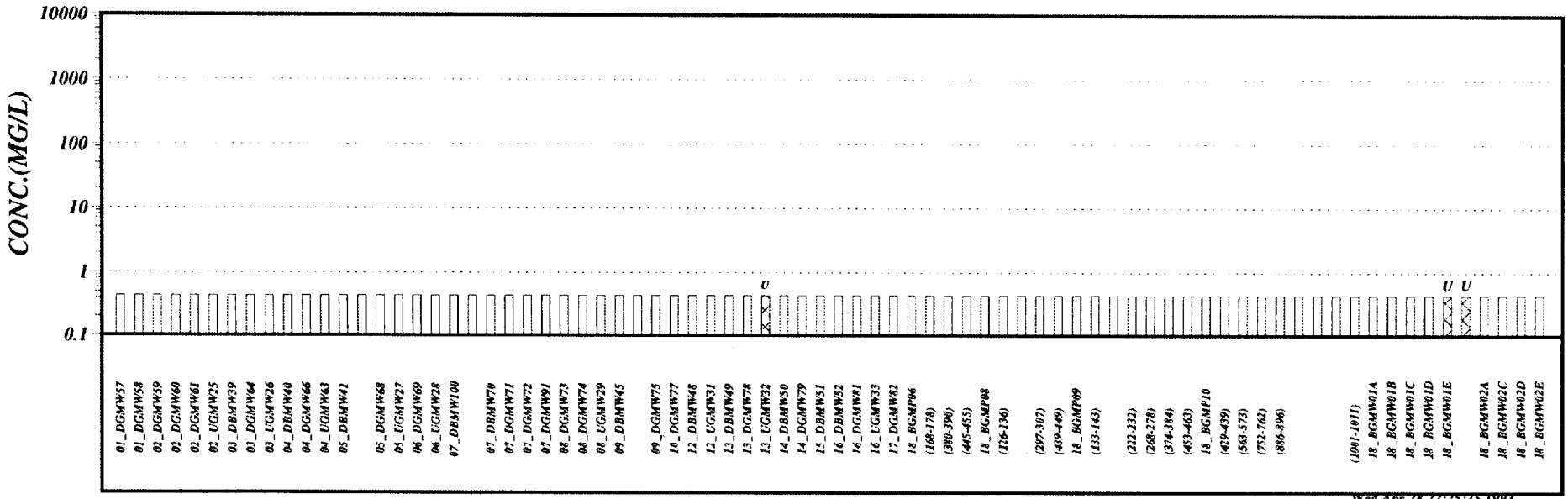
# MCAS EL TORO Phase 1 RI Technical Memorandum

## TOTAL RECOVERABLE PETROLEUM HYDROCARON Concentration in Ground Water-Sampli



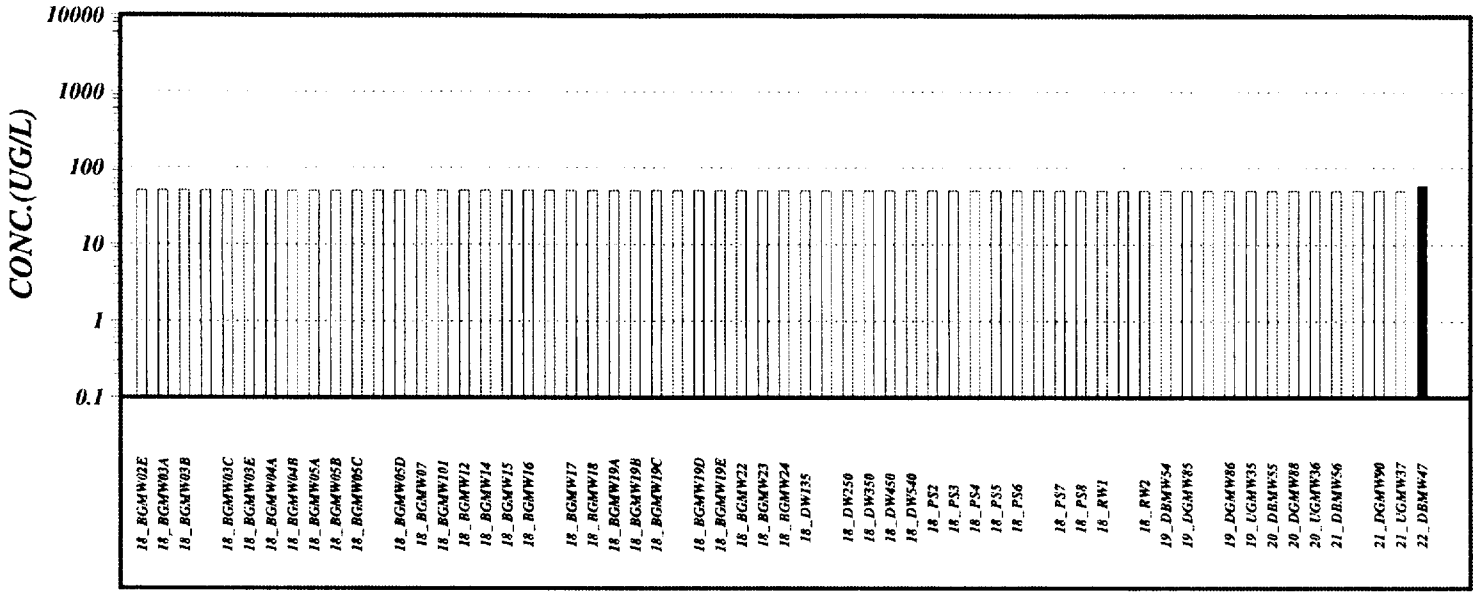



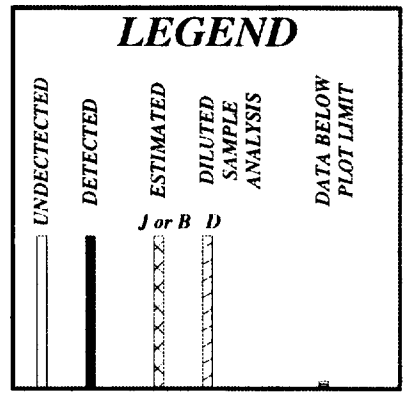



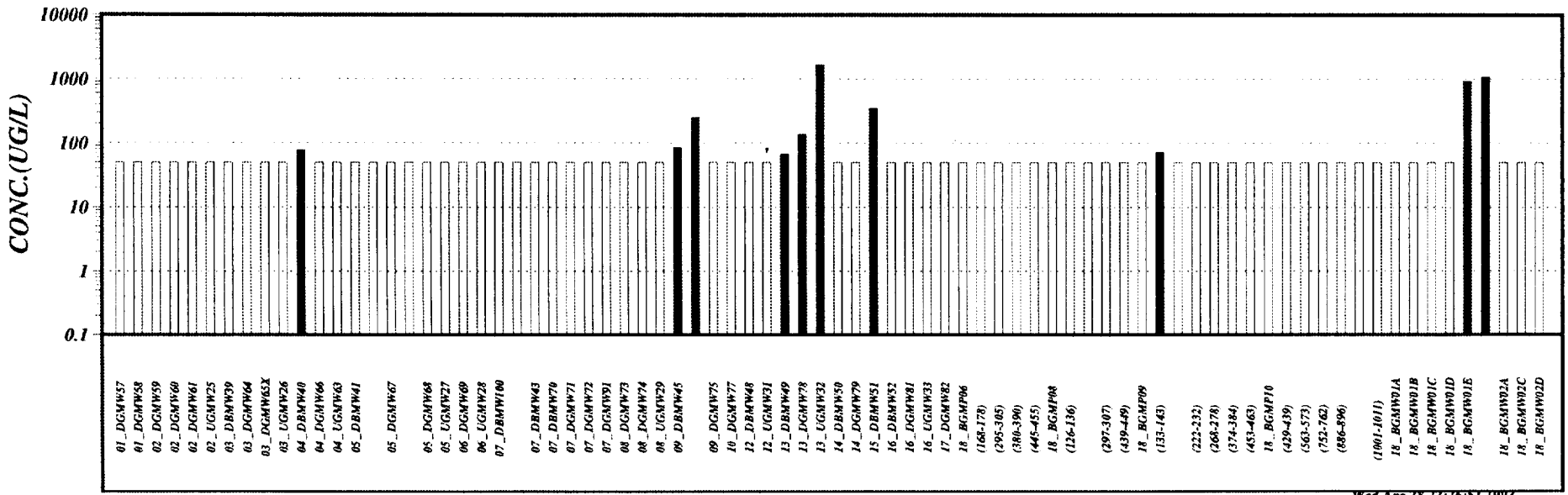

Wed Apr 28 22:25:25 1993

# MCAS EL TORO Phase 1 RI Technical Memorandum

## TPHVOA Concentration in Ground Water-Sampling Duration (09/21/92-02/08/93)




Wed Apr 28 22:26:51 1993

# Appendix D2

## Bar Concentration Plots for Detected Chemicals in OCWD Wells

# D2 ORANGE COUNTY WATER DISTRICT DATA

Orange County Water District (OCWCD) groundwater quality and water level data includes historical data. Plots of OCWD groundwater quality and water level data are presented in Section D2.1 and D2.2 respectively. A different format than the concentration plots presented in Section D1, is used to represent OCWD historical data (multiple samples for a given monitoring station).

Following are some of the key features of OCWD data display:

- Each monitoring station (well or different depth of sampling from a given well) is displayed in a separate subplot with sampling time in the x-axis and logarithmic concentrations in the y-axis.
- If a given well has been sampled at different depths (referred to as multi-port well), all the related data is plotted. Wells with increasing depth are arranged left to right and followed by a second row. Therefore, top most perforation interval data is plotted in the top left corner, followed by next depth interval on the right. For a multi-port well, the last (bottom right) plot represents the data from the lowest perforation interval. Multi-port well concentration plots provide a visual interpretation of concentration variations with depth.
- An approximate location map is plotted on the left top corner of each chemical concentration plot.

## D2.1 OCWD Groundwater Quality Data

This section includes concentration plots of chemicals listed in Table D2-1. Concentration plots for all available data for volatile organic compounds are included in this section. This section also includes concentration plots of nitrate, total dissolved solids, selenium, and zinc.

Figure D-3 is an illustrative page of an OCWD groundwater quality data plot. Figure D-4 shows details of features included in the approximate well location maps. For a given chemical, there are 11 pages of concentration plots representing multi-port and wells with a single perforation interval.

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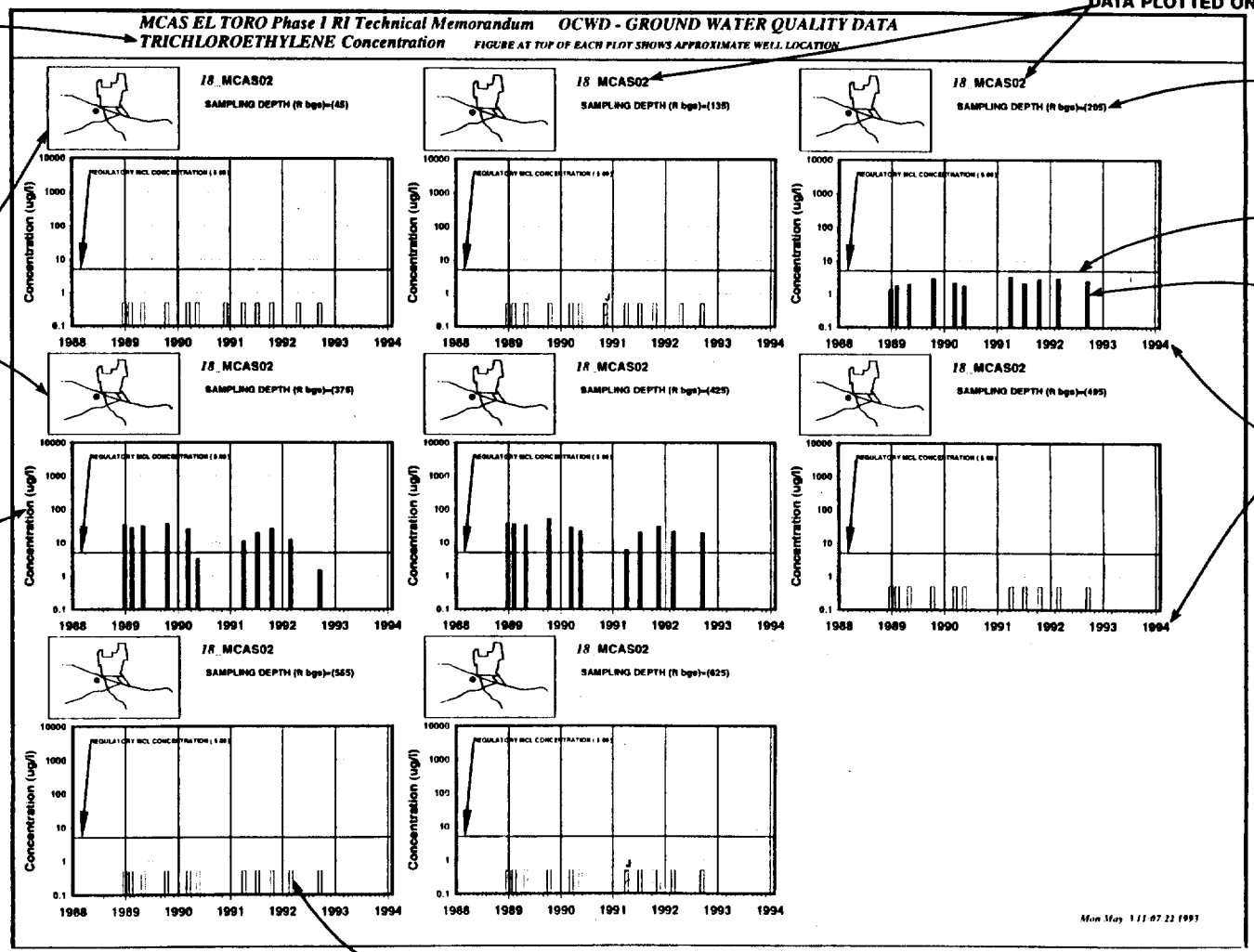


CHEMICAL NAME

MULTIPLE-PORT WELL DATA PLOTTED ON ONE PAGE

SAMPLING DEPTH

APPROXIMATE WELL LOCATION MAP (SEE DETAILED MAP FIGURE)

REGULATORY MCL

SOLID BAR REPRESENTS DETECTED VALUES

CHEMICAL CONCENTRATIONS ARE DISPLAYED IN LOGARITHMIC SCALE

TIME SCALE

BLANK BAR REPRESENTS CONCENTRATION BELOW DETECTION LIMIT

**FIGURE D-3**
**AN ILLUSTRATIVE PLOT OF OCWD GROUNDWATER QUALITY DATA**
**MCAS EL TORO PHASE I RI TECHNICAL MEMORANDUM**

SCCS1991.RV.40

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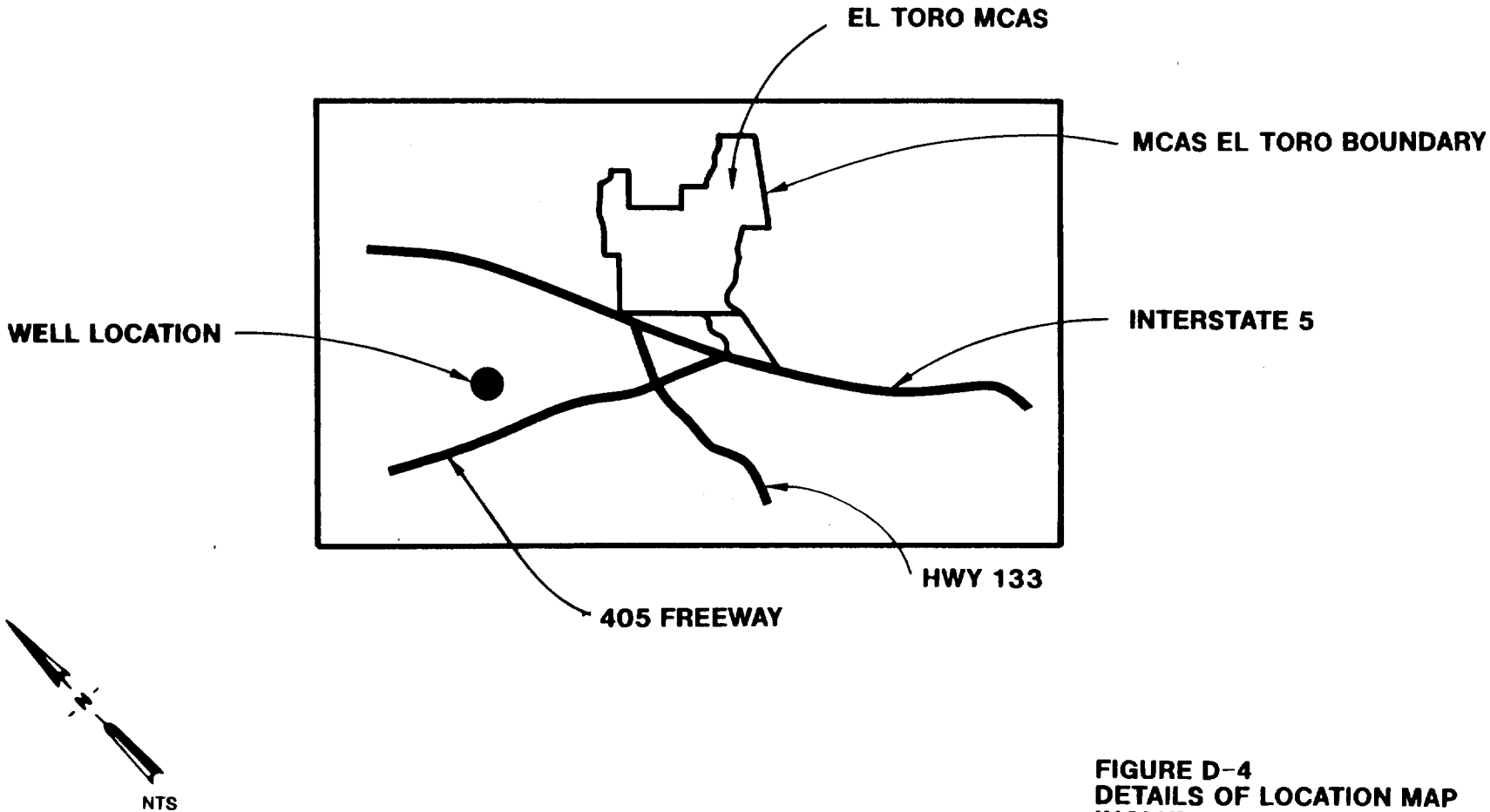


FIGURE D-4
DETAILS OF LOCATION MAP
INCLUDED IN HYDROGRAPH
AND CONCENTRATION PLOT

MCAS EL TORO PHASE I RI
TECHNICAL MEMORANDUM

SCO31981.RV.40

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TABLE D2-1

Orange County Water District (OCWD) Water Quality Data

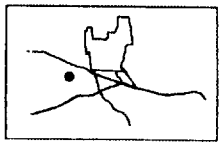
CHEMICALS SELECTED (BOLD LETTERS) FOR GROUND WATER QUALITY PLOTS

| CHEMICAL NAME | UNITS | TOTAL NUMBER OF DATA POINTS | DATA ABOVE DETECTION LIMIT | CONCENTRATION | | | | DETECT -ION LIMIT | REGULATORY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MINIMUM | FLAG | MAXIMUM | FLAG | | LIMIT | CODE |
| **GENERAL CHEMISTRY** | | | | | | | | | | |
| **NITRATE AS N** | MG/L | 366 | 283 | 0.1 | U | 63 | | 0.1 | 10 | 2 |
| **TOTAL DISSOLVED SOLIDS** | MG/L | 368 | 368 | 320 | | 3480 | | 0 | 500 | 3 |
| **METALS** | | | | | | | | | | |
| **SELENIUM** | UG/L | 225 | 97 | 1 | U | 61 | | 5 | 10 | 1 |
| **ZINC** | UG/L | 228 | 69 | 2 | U | 950 | | 50 | 5000 | 2 |
| **VOLATILE ORGANIC COMPOUNDS** | | | | | | | | | | |
| **1,1,1-TRICHLOROETHANE** | UG/L | 635 | 13 | 0.5 | U | 0.9 | | 0.5 | 200 | 2 |
| **1,2-DICHLOROETHANE** | UG/L | 497 | 12 | 0.5 | U | 1 | | 0.5 | 0.5 | 1 |
| **1,2-DICHLOROETHENE (TOTAL)** | UG/L | 634 | 48 | 0.5 | U | 12.7 | | 0.5 | NA | NA |
| **CARBON TETRACHLORIDE** | UG/L | 635 | 0 | 0.5 | U | 0.5 | U | 0.5 | 0.5 | 1 |
| **CHLOROBENZENE** | UG/L | 635 | 34 | 0.5 | U | 1.6 | | 0.5 | 30 | 1 |
| **CHLOROFORM** | UG/L | 635 | 104 | 0.1 | | 9.7 | | 0.5 | 100 | 2 |
| **ETHYLBENZENE** | UG/L | 635 | 43 | 0.5 | U | 1.5 | | 0.5 | NA | NA |
| **TETRACHLOROETHENE** | UG/L | 635 | 47 | 0.1 | | 19 | | 0.5 | 5 | 2 |
| **TOLUENE** | UG/L | 634 | 53 | 0.5 | U | 34 | | 0.5 | 1000 | 2 |
| **TRICHLOROETHYLENE** | UG/L | 646 | 342 | 0.5 | U | 88.7 | | 0.5 | 5 | 2 |

# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA

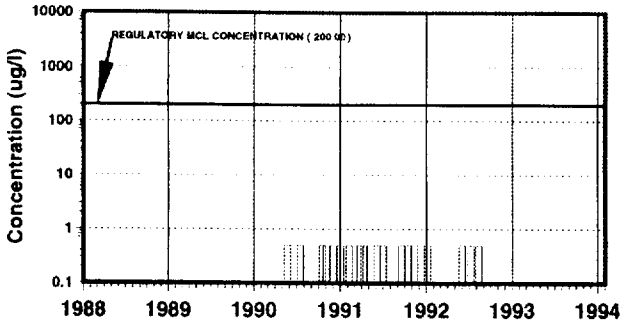
## 1,1,1-TRICHLOROETHANE Concentration

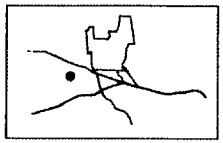
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_ET1

SAMPLING DEPTH (ft bgs)=(220-490)



18_ET1

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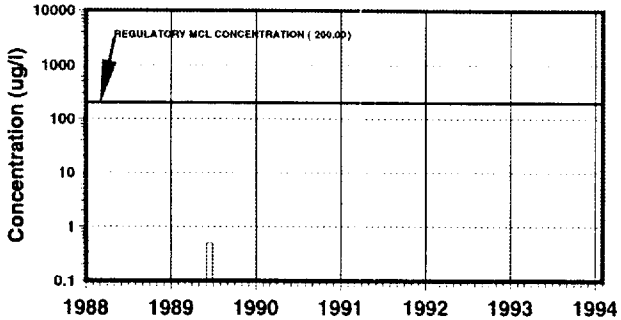
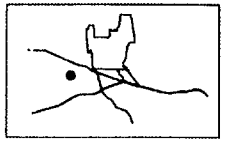
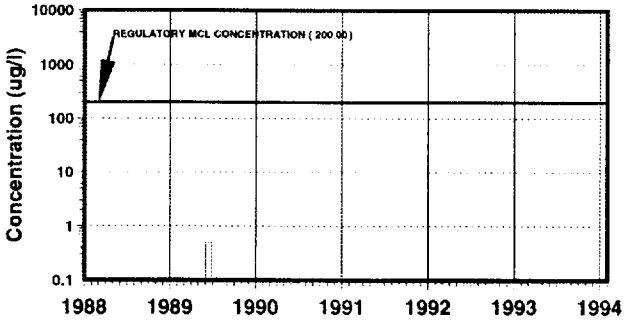
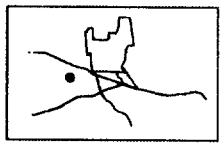


18_ET1

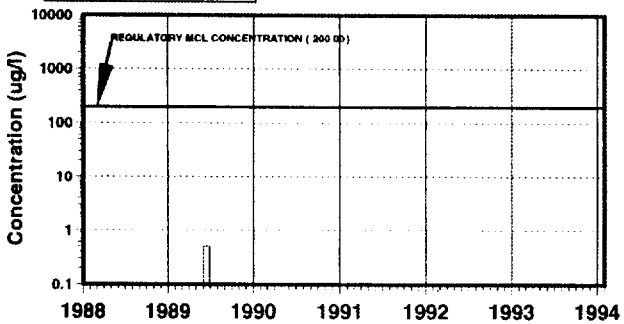
SAMPLING DEPTH (ft bgs)=(300)

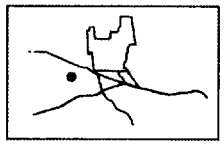


18_ET1

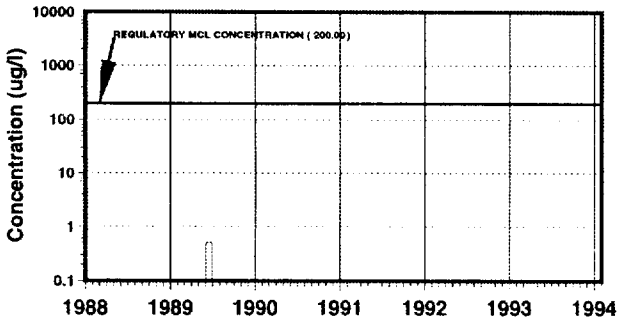
SAMPLING DEPTH (ft bgs)=(390)



18_ET1

SAMPLING DEPTH (ft bgs)=(440)

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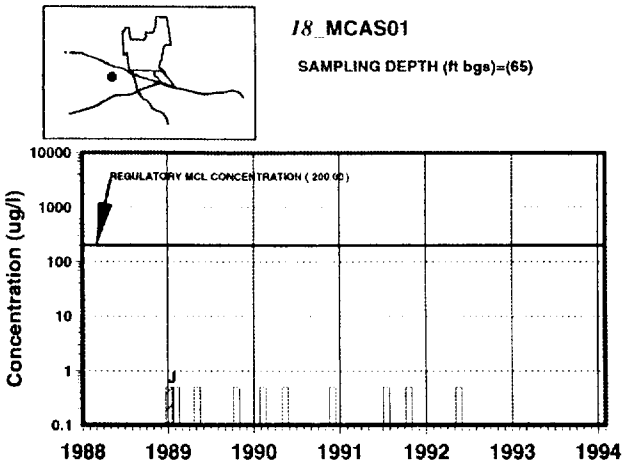
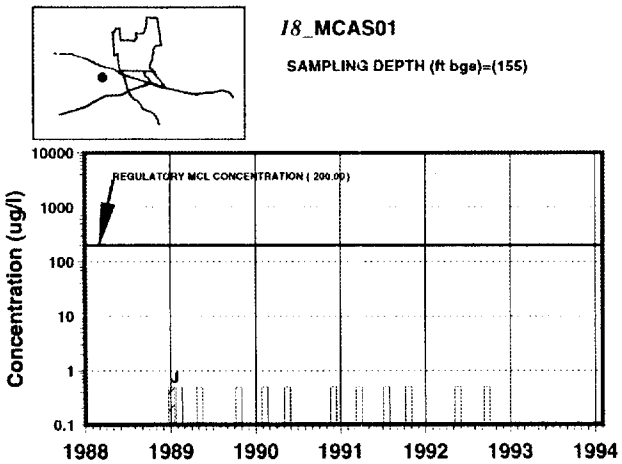
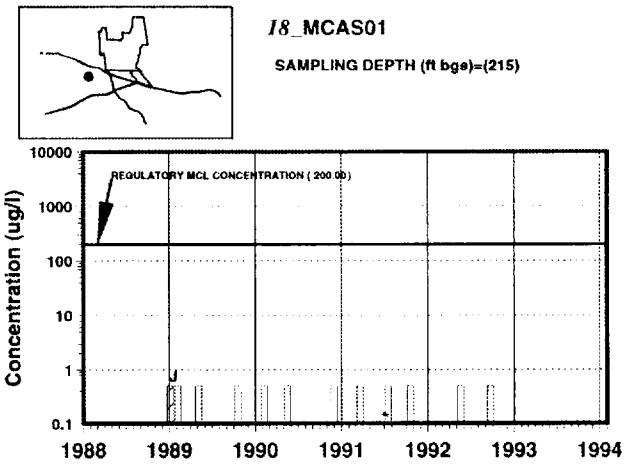
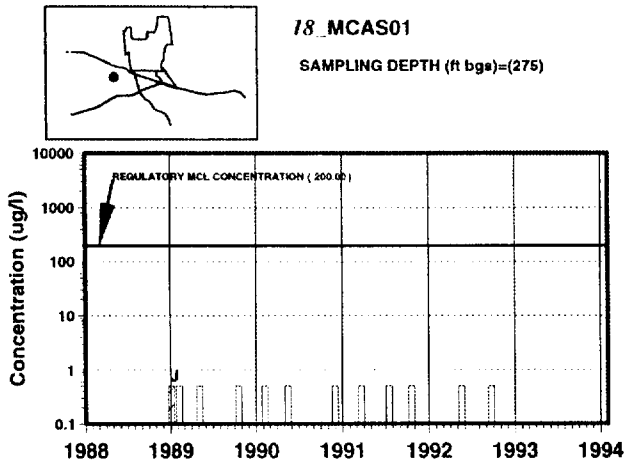
## 1,1,1-TRICHLOROETHANE Concentration

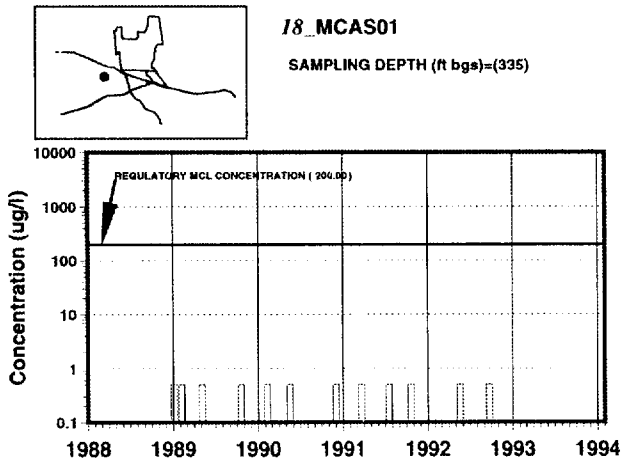
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

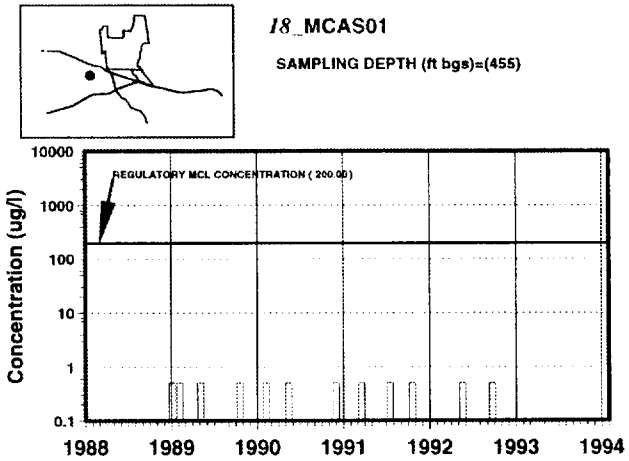


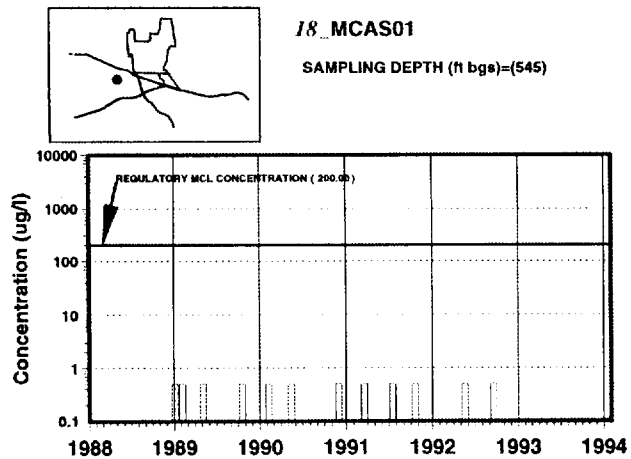

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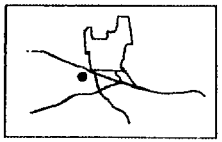
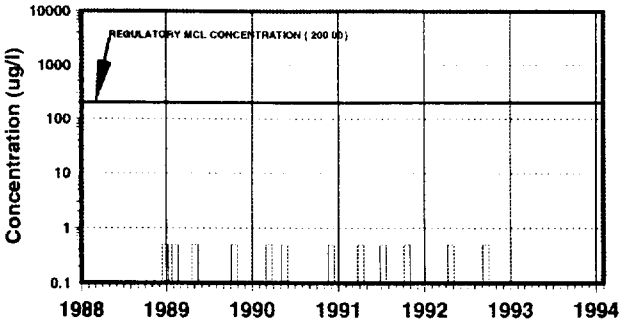
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

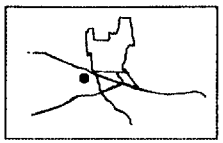
*1,1,1-TRICHLOROETHANE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

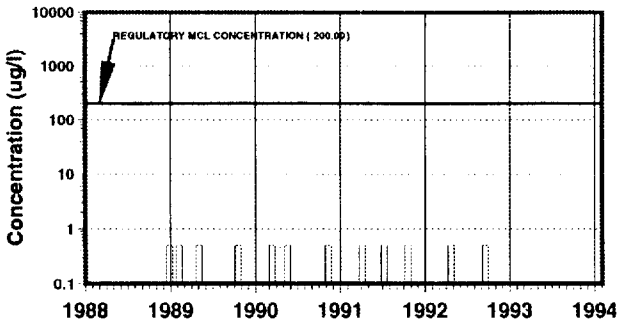
SAMPLING DEPTH (ft bgs)=(45)

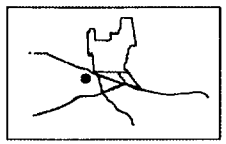


*18*_MCAS02

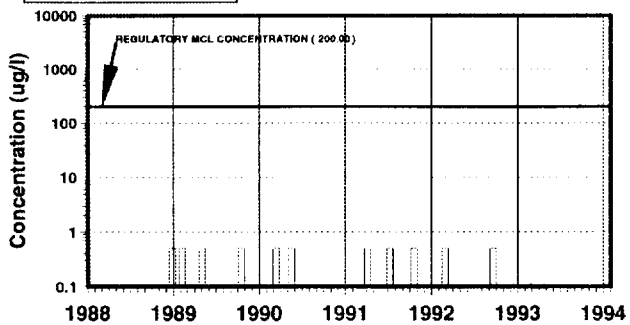
SAMPLING DEPTH (ft bgs)=(135)

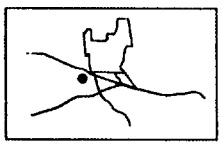


*18*_MCAS02

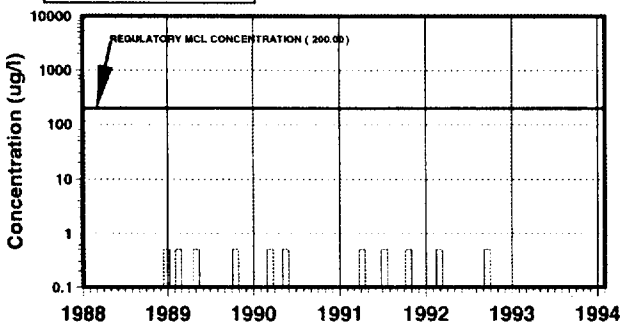
SAMPLING DEPTH (ft bgs)=(205)

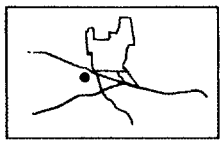


*18*_MCAS02

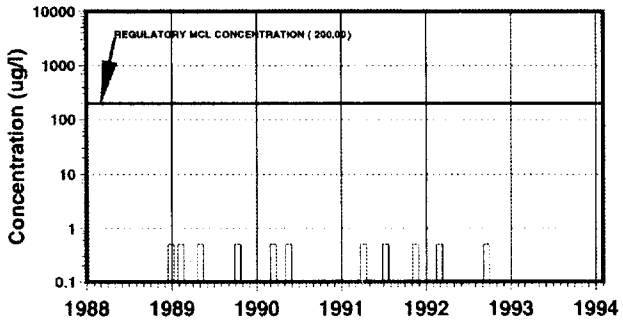
SAMPLING DEPTH (ft bgs)=(375)

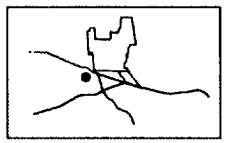


*18*_MCAS02

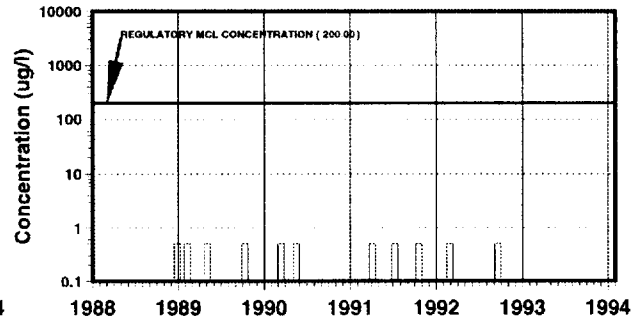
SAMPLING DEPTH (ft bgs)=(425)

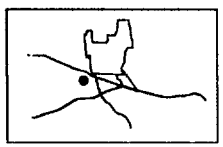


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(495)



*18*_MCAS02

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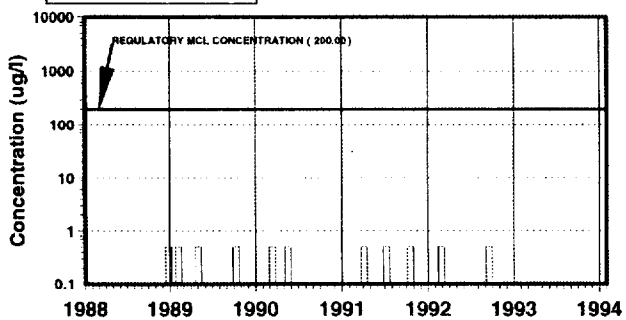
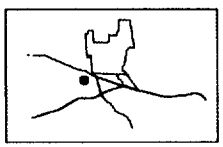
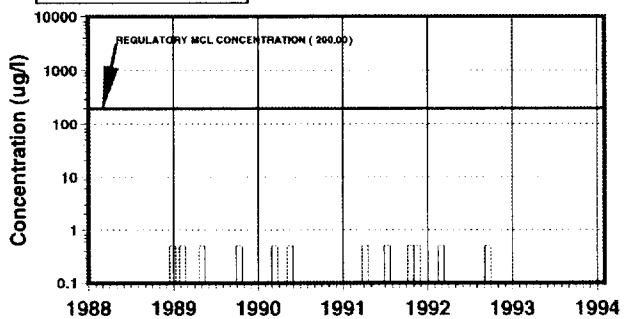


*18*_MCAS02

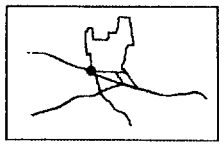
SAMPLING DEPTH (ft bgs)=(625)




*Fri Apr 30 21:24:11 1993*

## 1,1,1-TRICHLOROETHANE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS03

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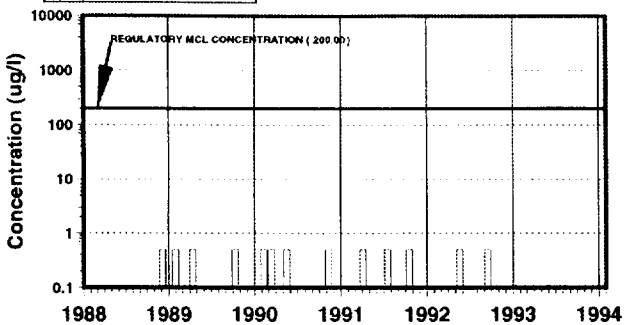


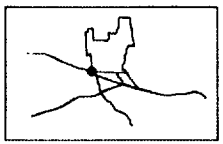

18_MCAS03

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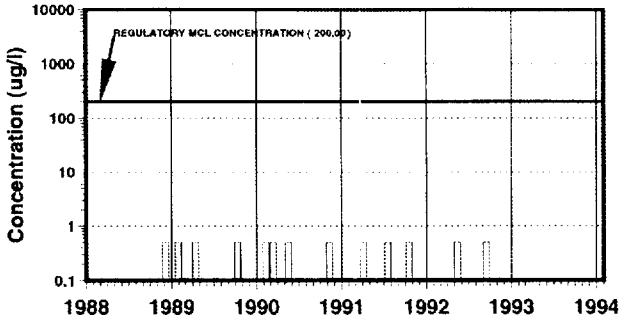
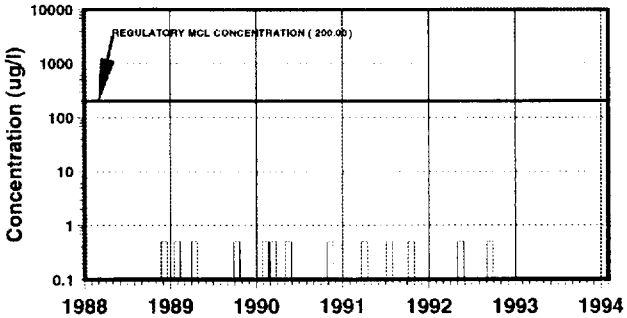
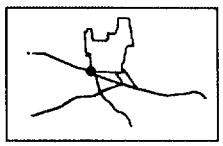


18_MCAS03

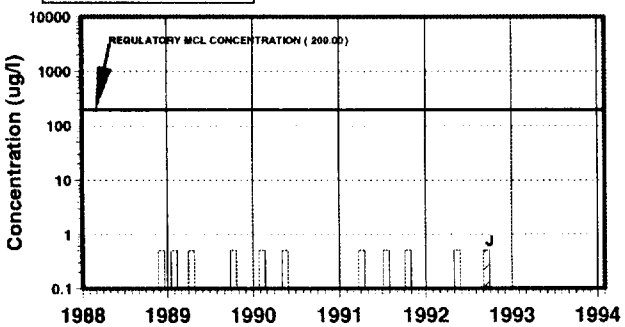
SAMPLING DEPTH (ft bgs)=(225)



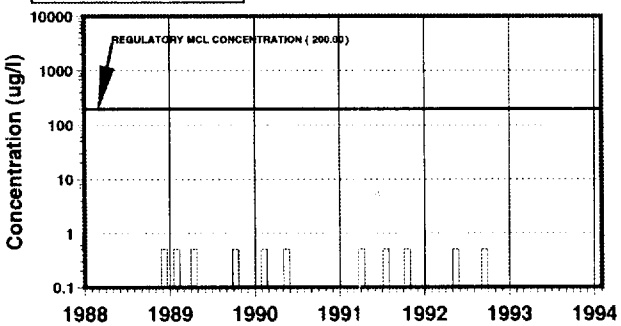
18_MCAS03

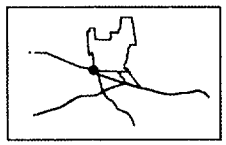
SAMPLING DEPTH (ft bgs)=(345)



18_MCAS03

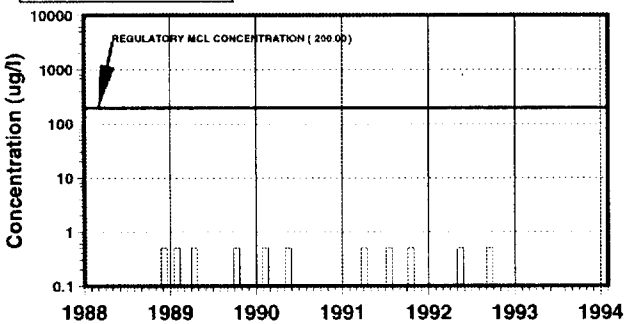
SAMPLING DEPTH (ft bgs)=(425)



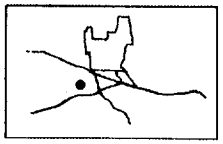
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



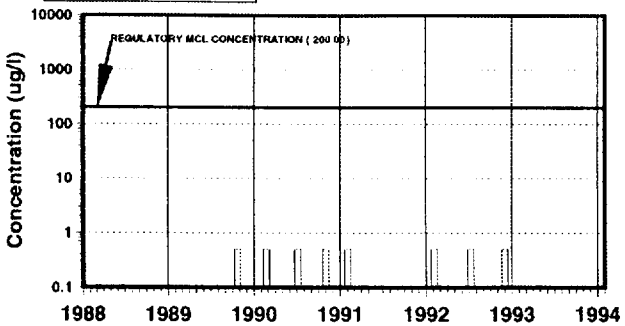
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

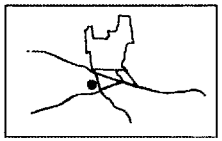
*1,1,1-TRICHLOROETHANE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

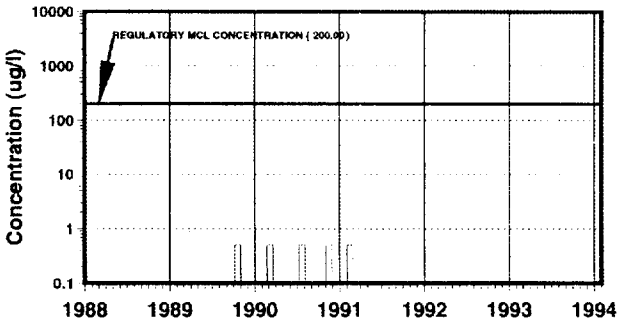
SAMPLING DEPTH (ft bgs)=(161-236)

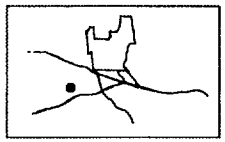


*18*_MCAS05

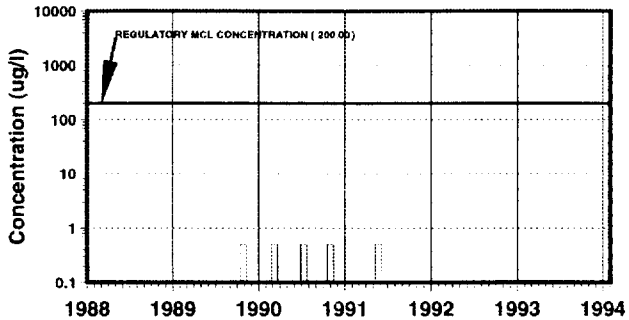
SAMPLING DEPTH (ft bgs)=(142-146)

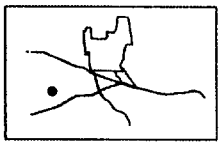


*18*_MCAS06

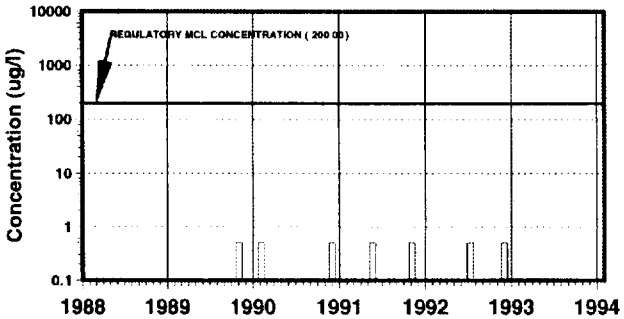
SAMPLING DEPTH (ft bgs)=(167-222)

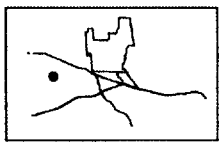


*18*_MCAS08

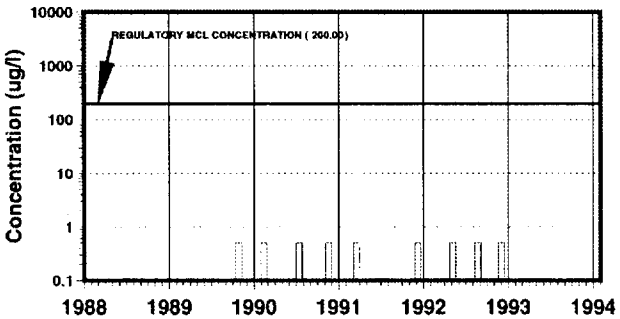
SAMPLING DEPTH (ft bgs)=(392-410)

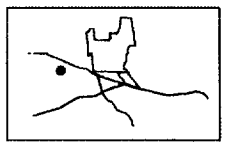


*18*_MCAS09

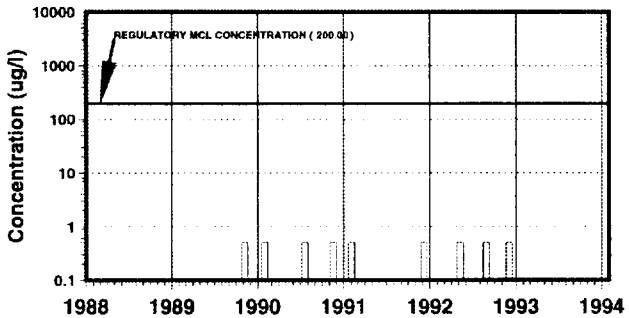
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

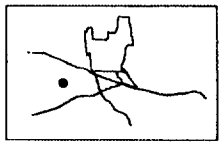
SAMPLING DEPTH (ft bgs)=(355-375)




*Fri Apr 30 21:27:14 1993*

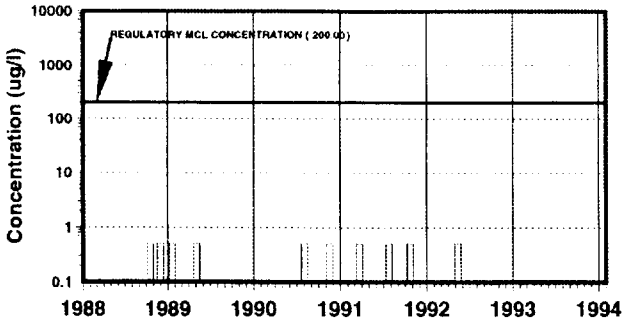
## .CAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## 1,1,1-TRICHLOROETHANE Concentration

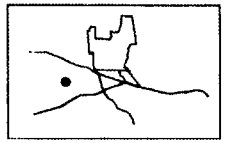
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

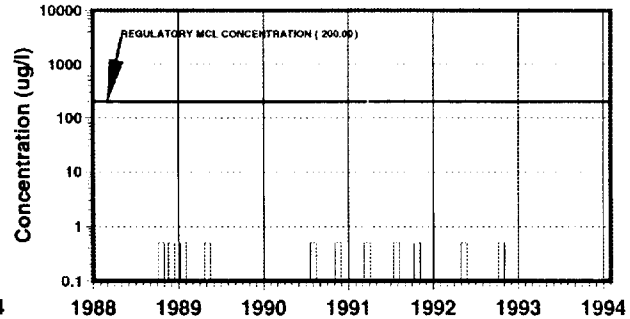
SAMPLING DEPTH (ft bgs)=(94)

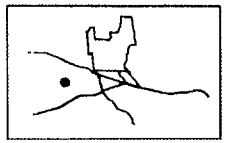


18_MCAS07

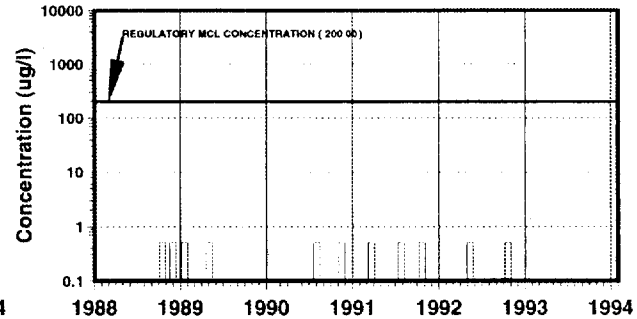
SAMPLING DEPTH (ft bgs)=(194)

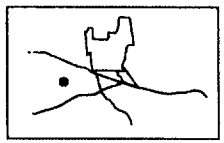


18_MCAS07

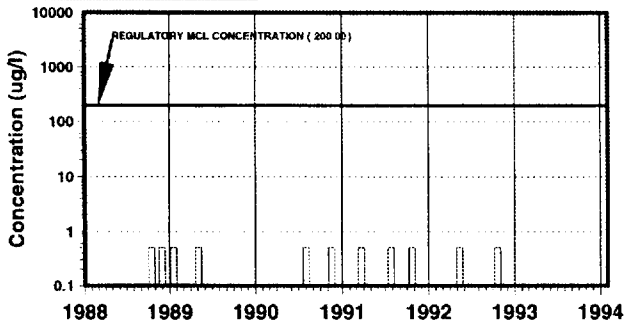
SAMPLING DEPTH (ft bgs)=(354)

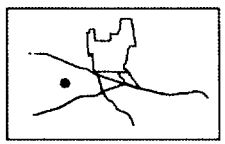


18_MCAS07

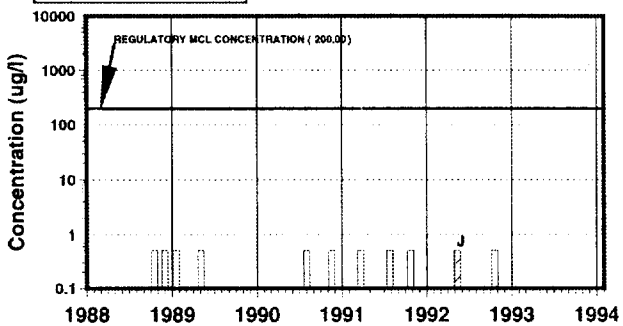
SAMPLING DEPTH (ft bgs)=(444)

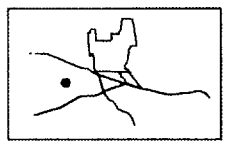


18_MCAS07

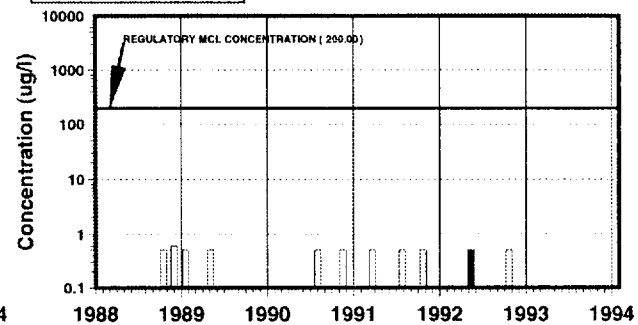
SAMPLING DEPTH (ft bgs)=(514)

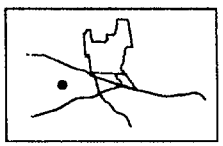


18_MCAS07

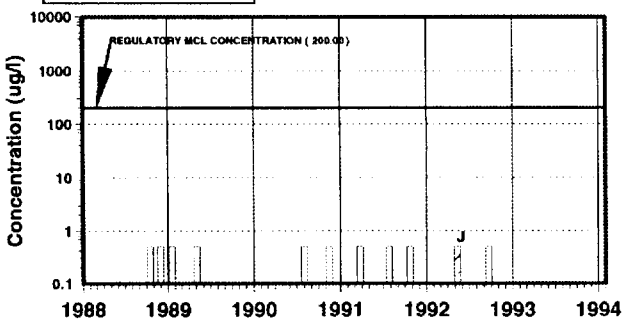
SAMPLING DEPTH (ft bgs)=(804)

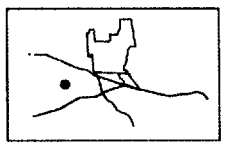


18_MCAS07

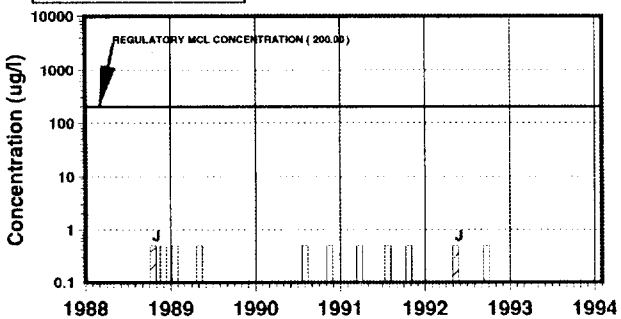
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 15:33:42 1993

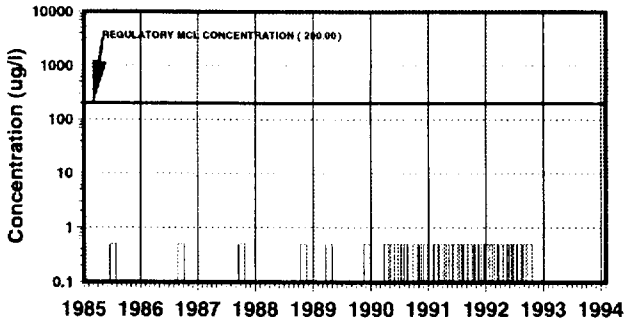
## *1,1,1-TRICHLOROETHANE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

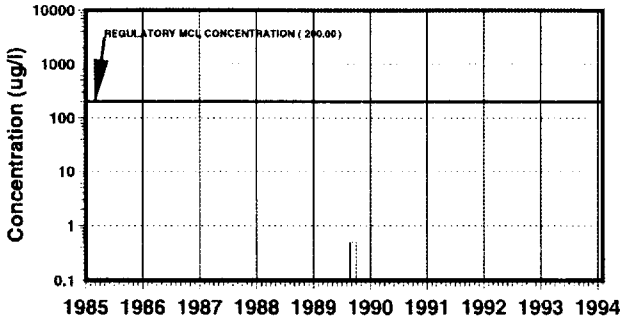
*NO X,Y DATA*

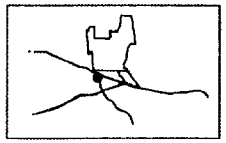
SAMPLING DEPTH (ft bgs)=(370-890)



### *18*_RW3

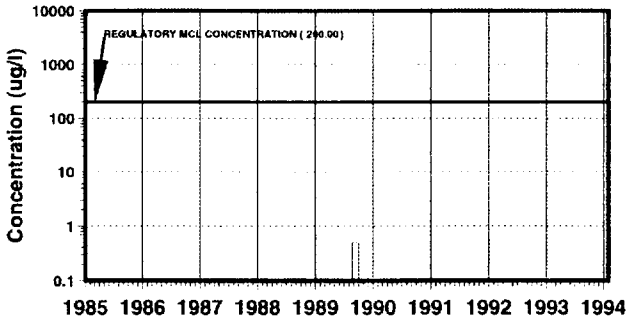
SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

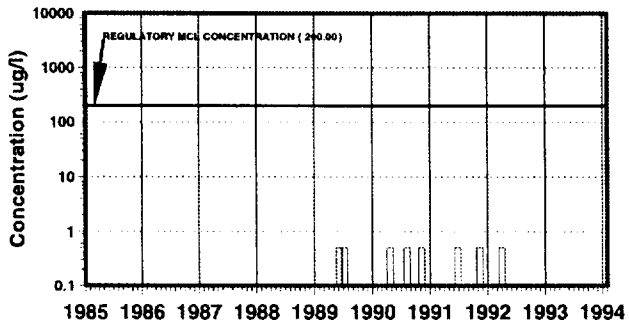
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

*NO X,Y DATA*

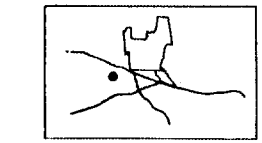
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 15:37:10 1993*

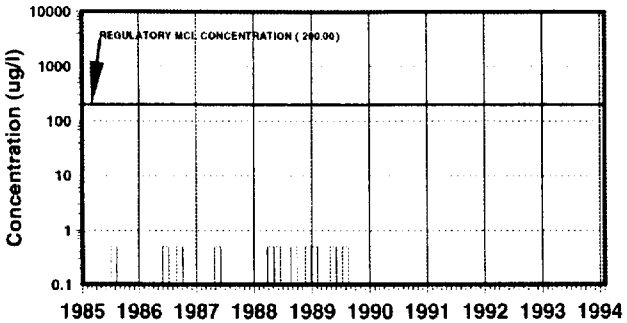
## 1,1,1-TRICHLOROETHANE Concentration

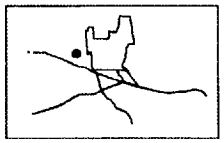
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

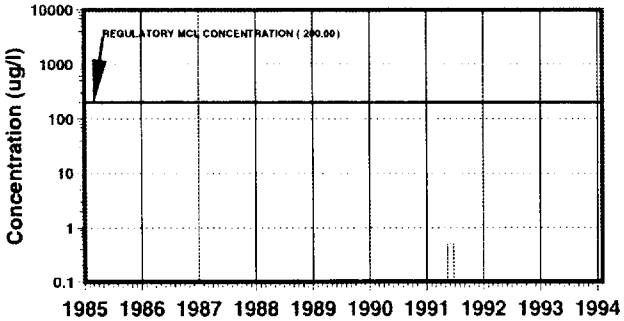
SAMPLING DEPTH (ft bgs)=(263-1503)

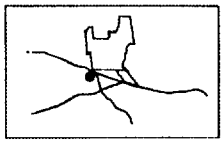


### 18_TIC037

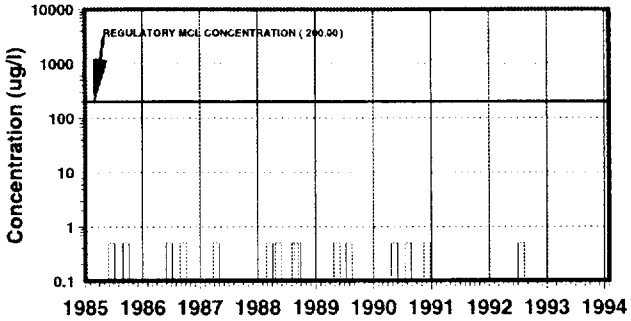
SAMPLING DEPTH (ft bgs)=(255-1560)

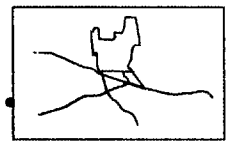


### 18_TIC047

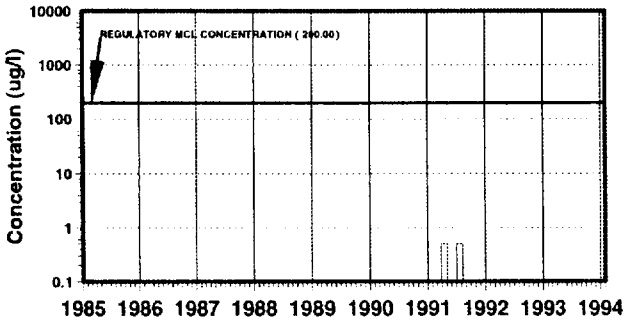
SAMPLING DEPTH (ft bgs)=(268-1107)

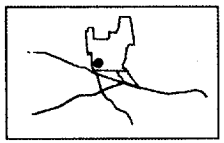


### 18_TIC051

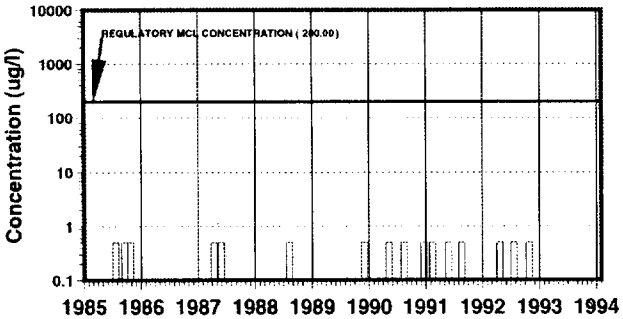
SAMPLING DEPTH (ft bgs)=(220-740)



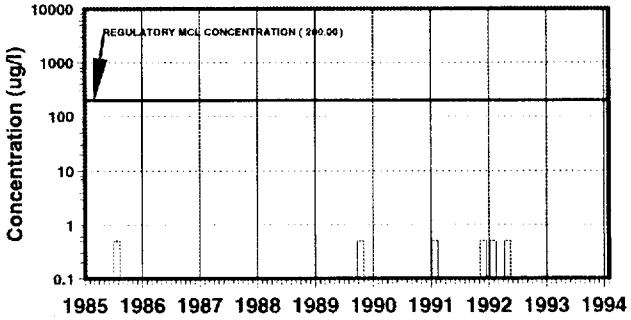
### 18_TIC055

SAMPLING DEPTH (ft bgs)=(496)



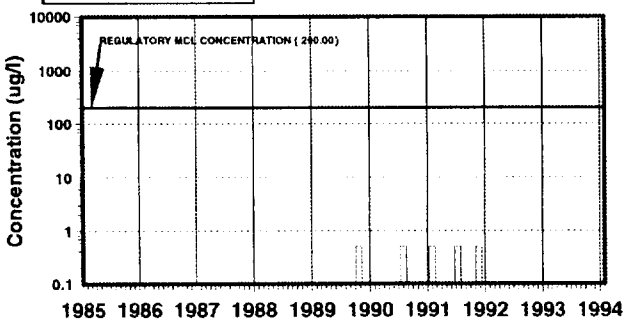
### 18_TIC056

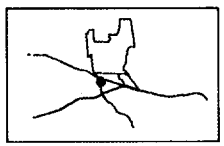
SAMPLING DEPTH (ft bgs)=(336-647)



### 18_TIC061

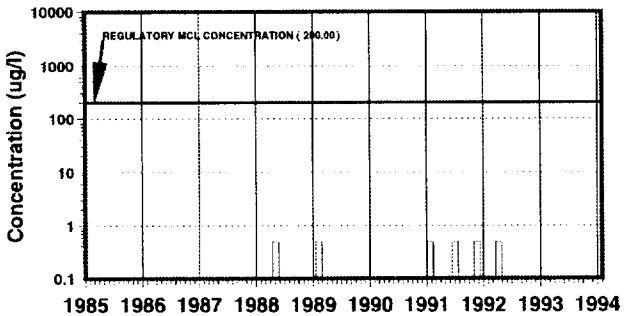
SAMPLING DEPTH (ft bgs)=(248-694)

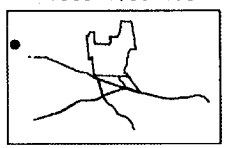


### 18_TIC068

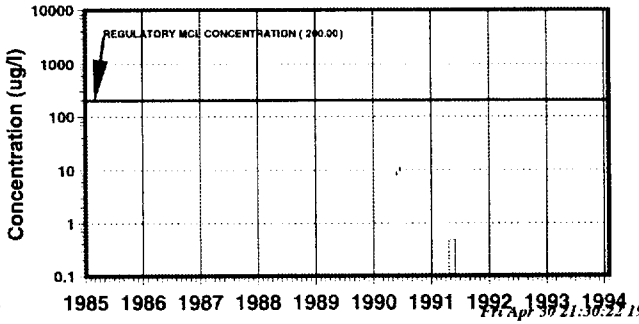
SAMPLING DEPTH (ft bgs)=(274-403)



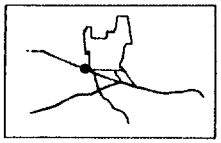
### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)



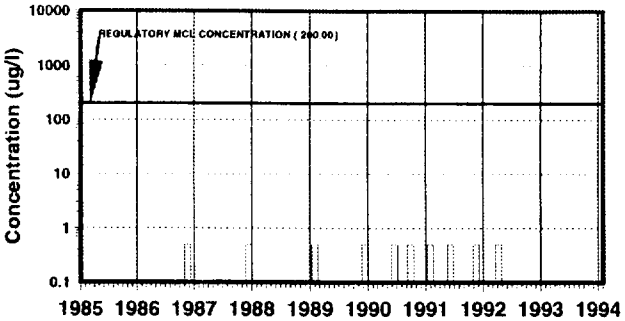
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

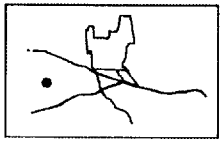
*1,1,1-TRICHLOROETHANE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

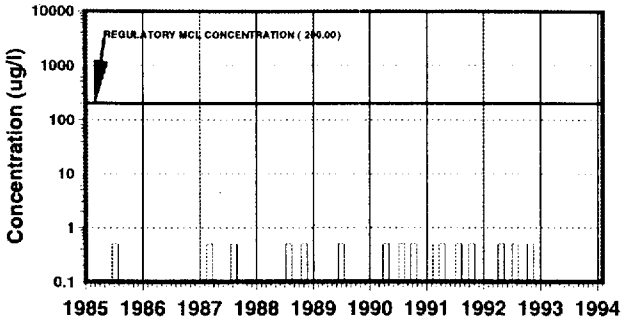
SAMPLING DEPTH (ft bgs)=(210-280)

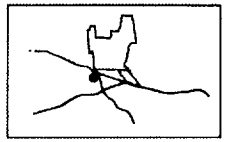


*18*_TIC078

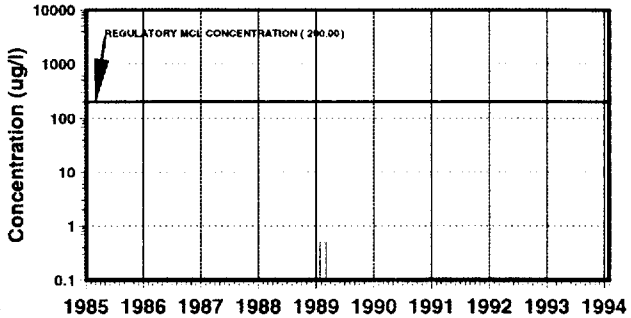
SAMPLING DEPTH (ft bgs)=(410-690)

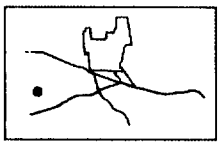


*18*_TIC083

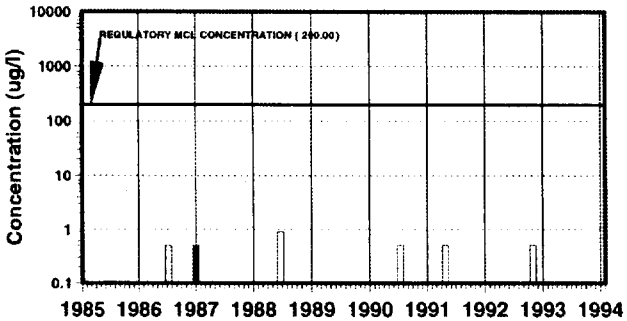
SAMPLING DEPTH (ft bgs)=(261-402)

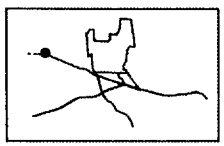


*18*_TIC106

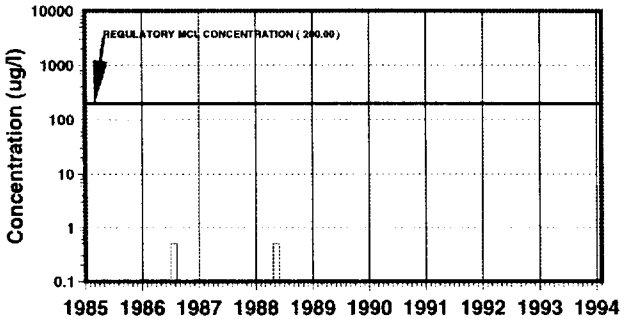
SAMPLING DEPTH (ft bgs)=(405-715)

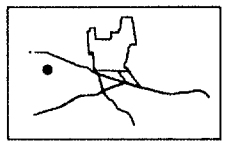


*18*_TIC107

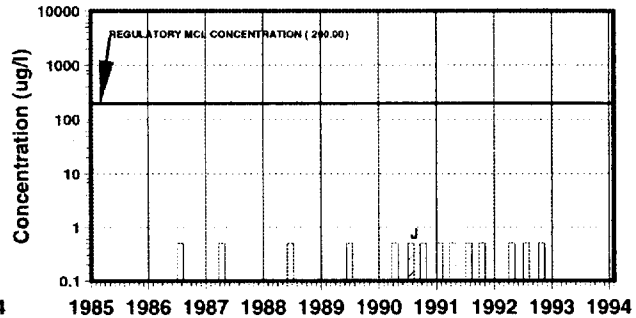
SAMPLING DEPTH (ft bgs)=(230-980)



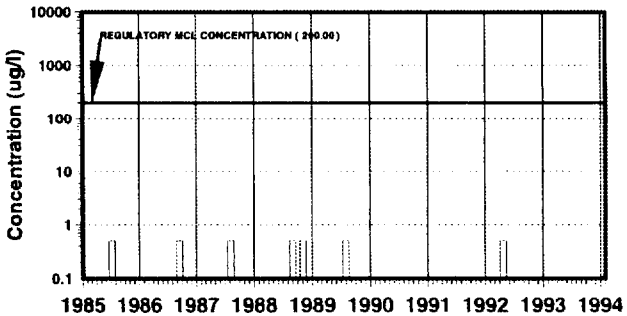
*18*_TIC108

SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



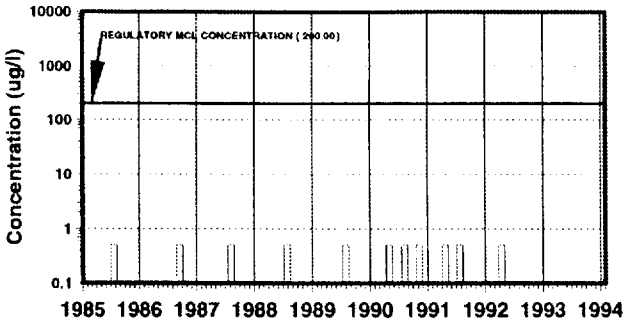

*Fri Apr 30 21:32:16 1993*

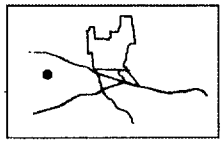
## 1,1,1-TRICHLOROETHANE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

### 18_TIC111

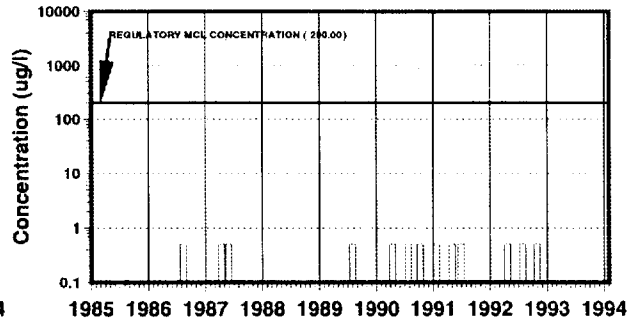
SAMPLING DEPTH (ft bgs)=(750)



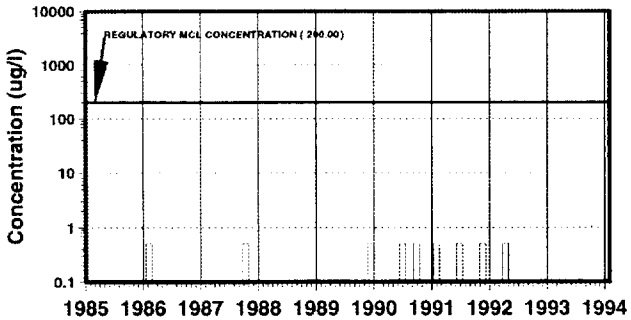
### 18_TIC113

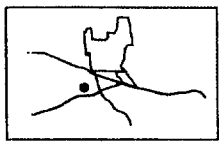
SAMPLING DEPTH (ft bgs)=(280-1080)



### 18_TIC117

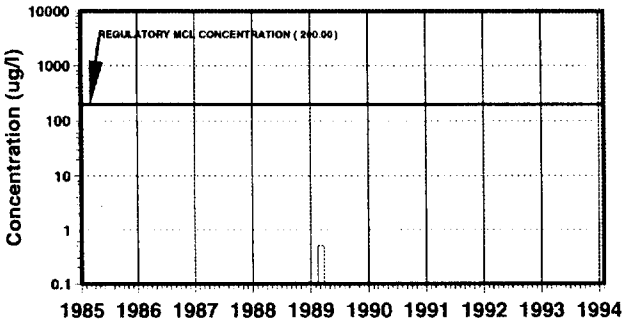
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



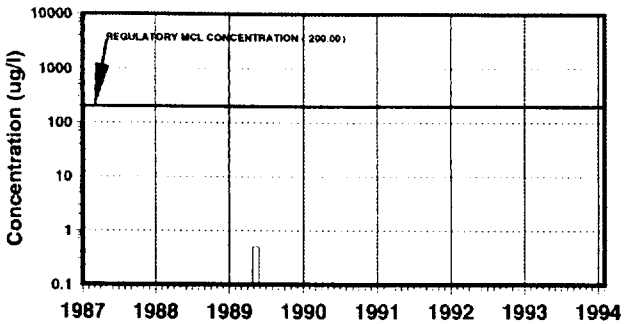
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*1,1,1-TRICHLOROETHANE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

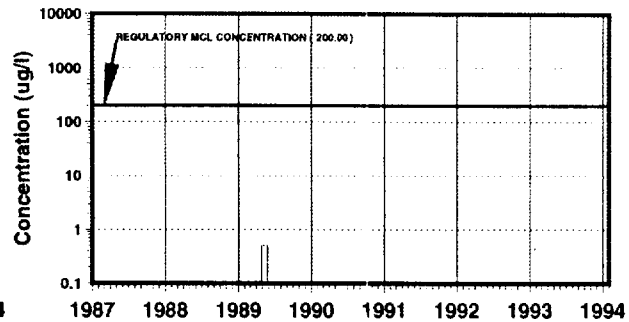
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

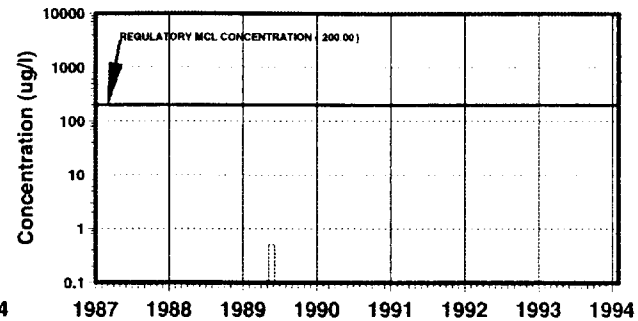
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

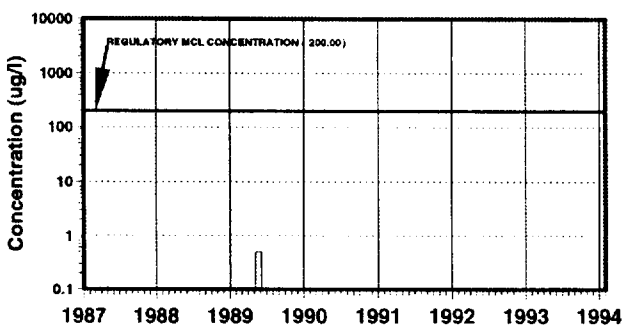
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

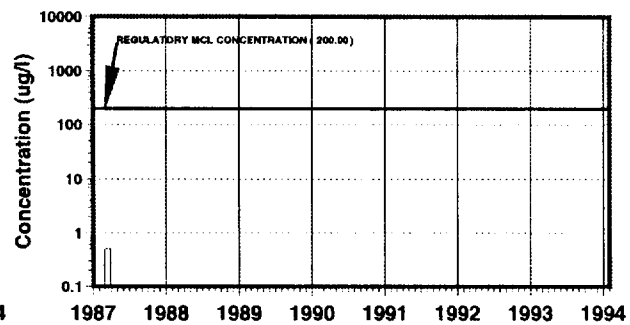
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(75-95)

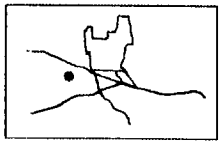



*Sat May 1 23:21:52 1993*

# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA

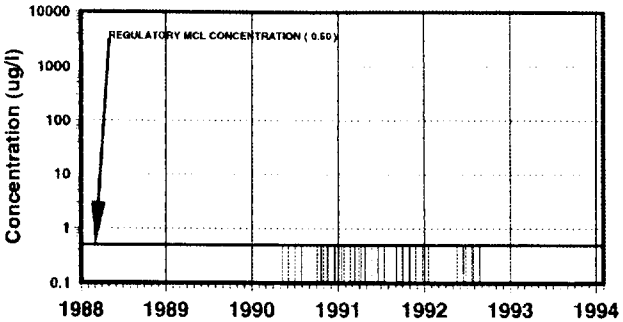
## 1,2-DICHLOROETHANE Concentration

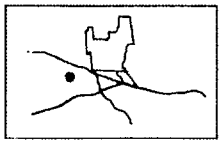
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

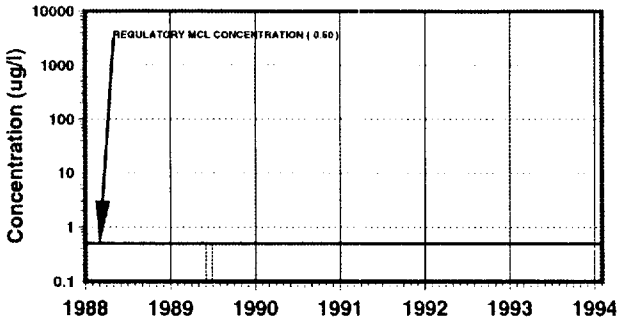
SAMPLING DEPTH (ft bgs)=(220-490)

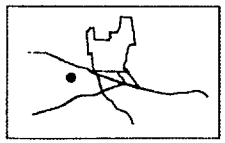


*18*_ET1

SAMPLING DEPTH (ft bgs)=(200)



*18*_ET1

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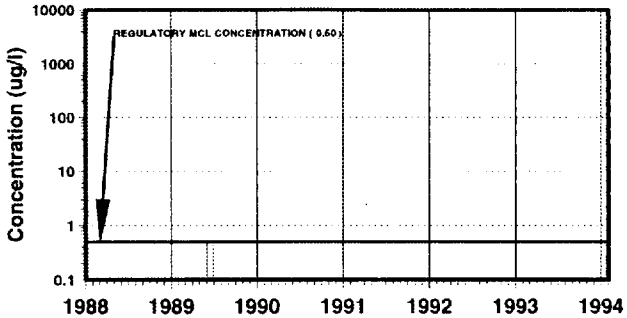
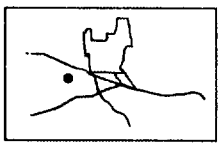
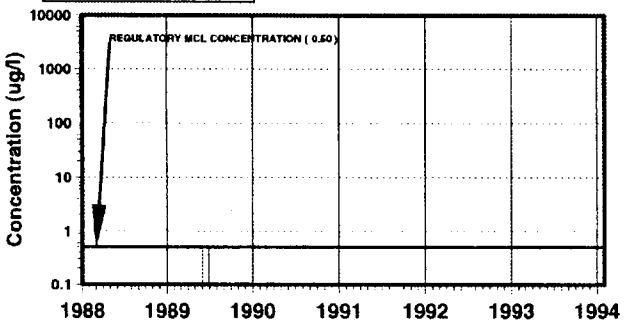
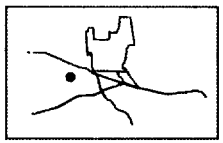


*18*_ET1

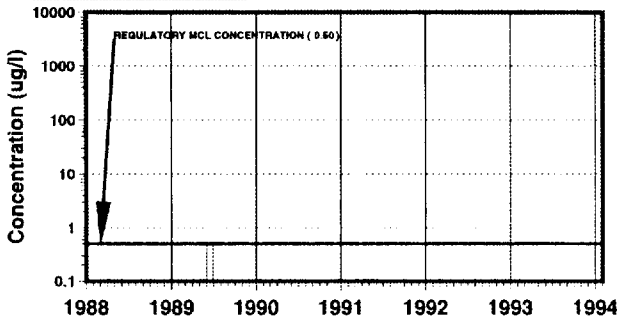
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

SAMPLING DEPTH (ft bgs)=(440)

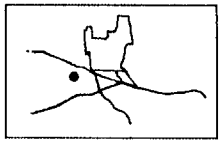



*Fri Apr 30 21:34:54 1993*

# CAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA

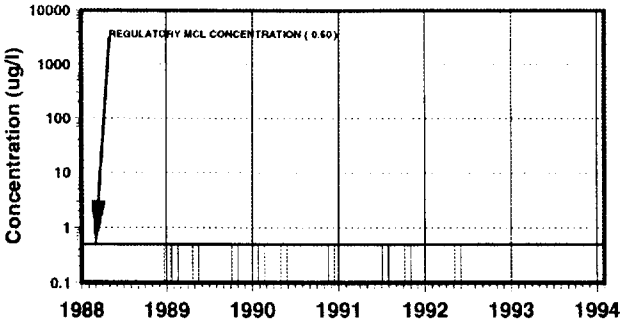
## 1,2-DICHLOROETHANE Concentration

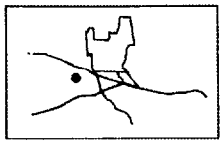
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

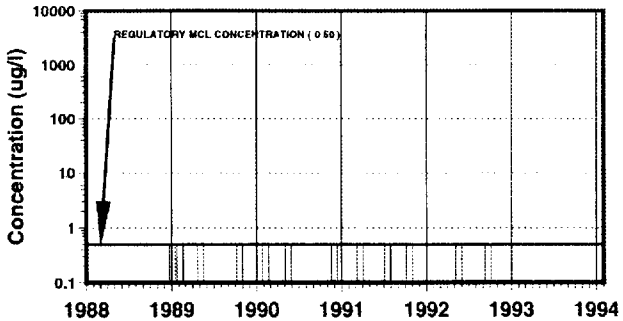
SAMPLING DEPTH (ft bgs)=(65)

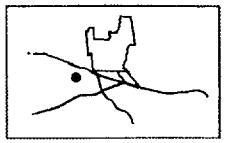


18_MCAS01

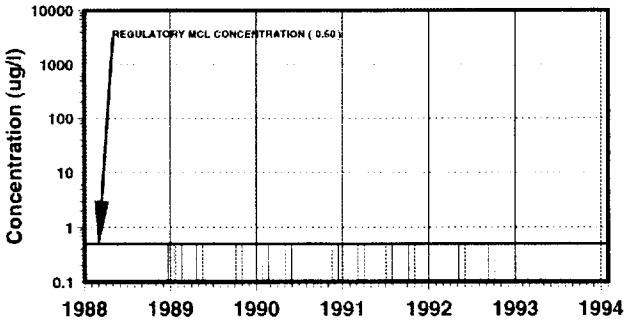
SAMPLING DEPTH (ft bgs)=(155)

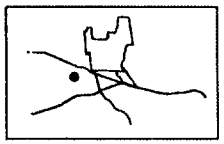


18_MCAS01

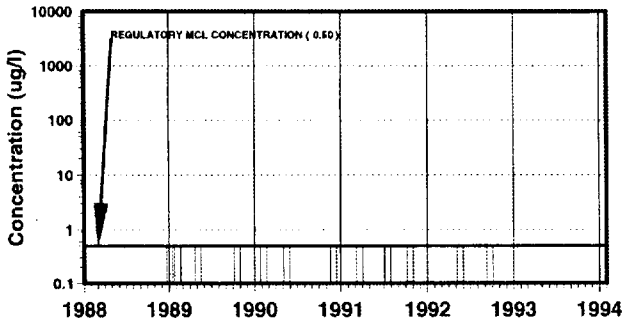
SAMPLING DEPTH (ft bgs)=(215)

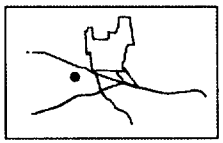


18_MCAS01

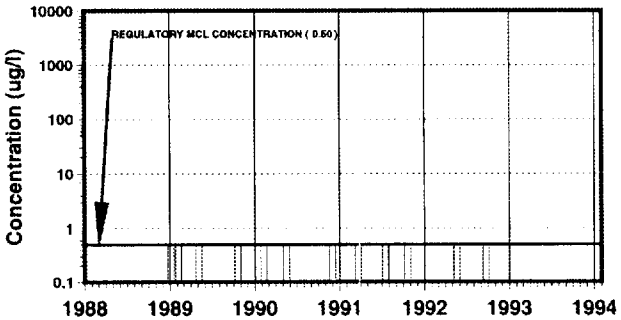
SAMPLING DEPTH (ft bgs)=(275)

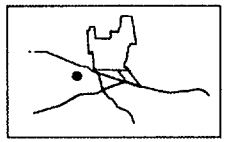


18_MCAS01

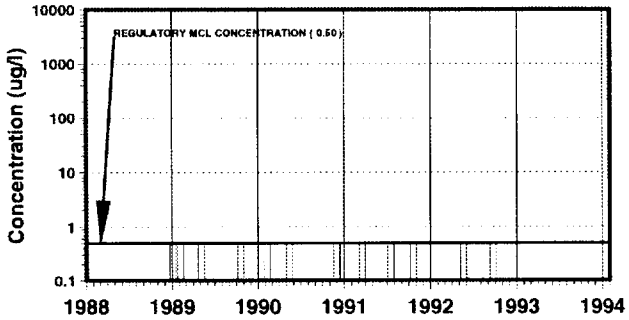
SAMPLING DEPTH (ft bgs)=(335)

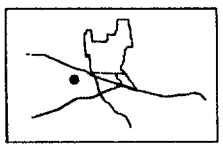


18_MCAS01

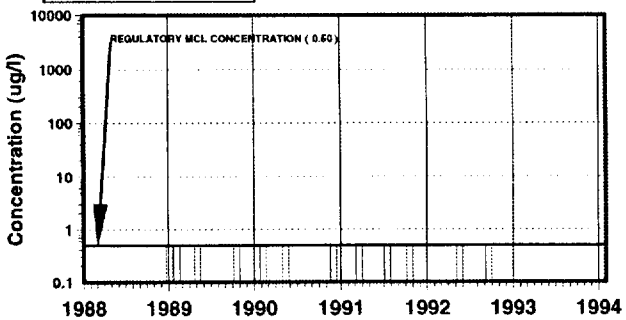
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

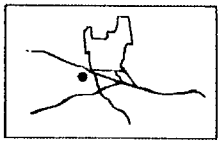
SAMPLING DEPTH (ft bgs)=(545)




Fri Apr 30 21:36:04 1993

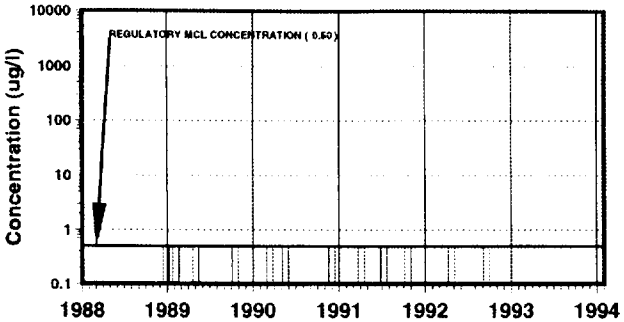
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

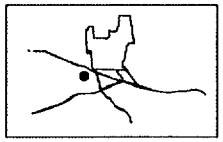
*1,2-DICHLOROETHANE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

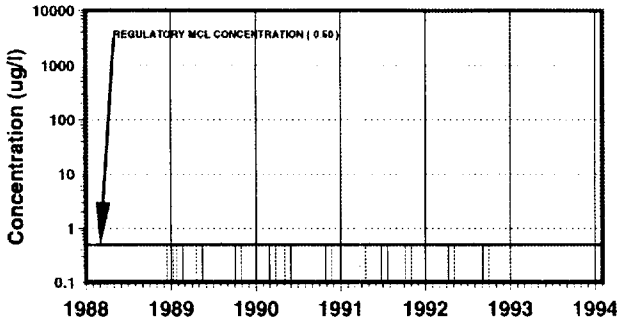
SAMPLING DEPTH (ft bgs)=(45)

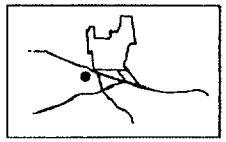


*18*_MCAS02

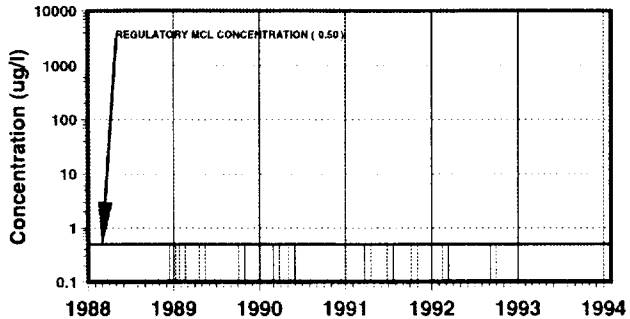
SAMPLING DEPTH (ft bgs)=(135)

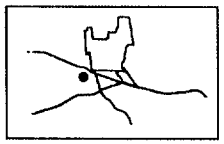


*18*_MCAS02

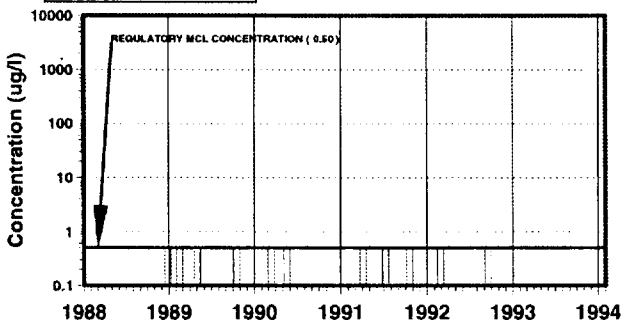
SAMPLING DEPTH (ft bgs)=(205)

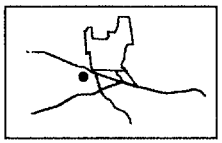


*18*_MCAS02

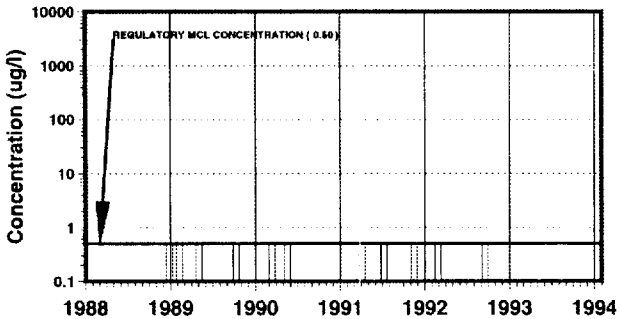
SAMPLING DEPTH (ft bgs)=(375)

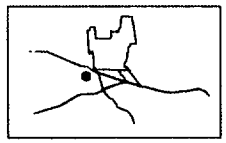


*18*_MCAS02

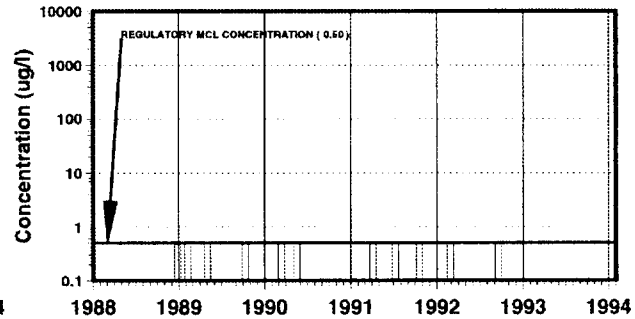
SAMPLING DEPTH (ft bgs)=(425)

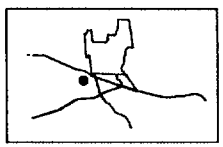


*18*_MCAS02

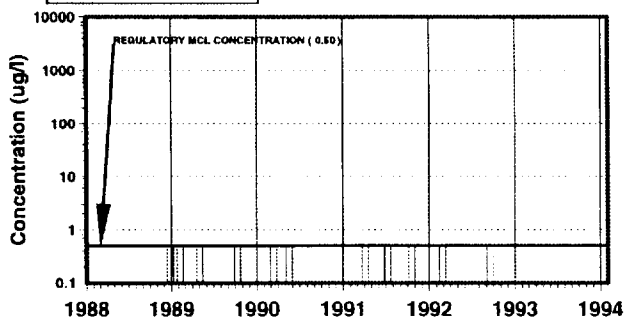
SAMPLING DEPTH (ft bgs)=(495)

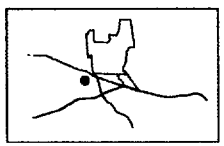


*18*_MCAS02

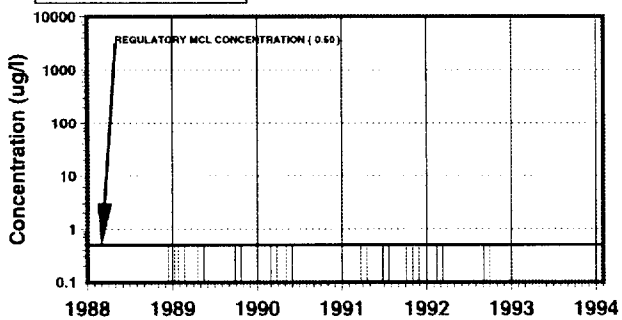
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

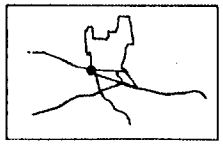
SAMPLING DEPTH (ft bgs)=(625)




*Fri Apr 30 21:37:35 1993*

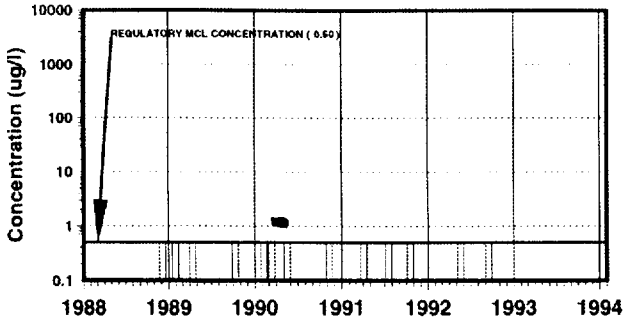
## 1,2-DICHLOROETHANE Concentration

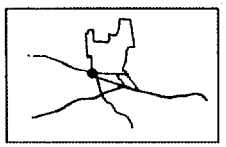
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS03

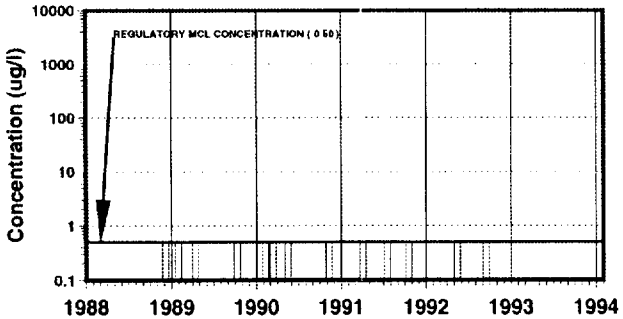
SAMPLING DEPTH (ft bgs)=(90)



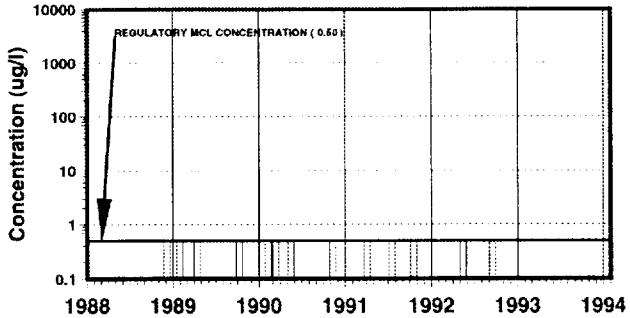
18_MCAS03

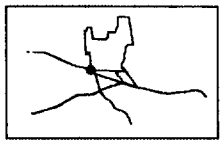
SAMPLING DEPTH (ft bgs)=(165)



18_MCAS03

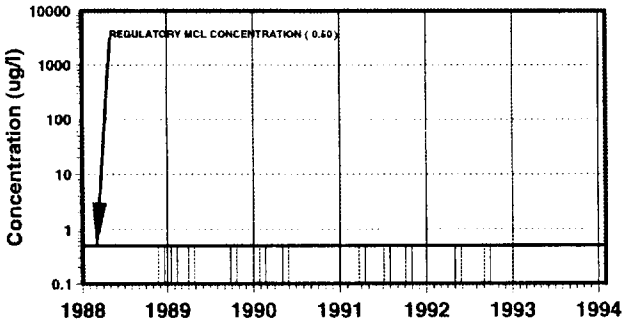
SAMPLING DEPTH (ft bgs)=(225)

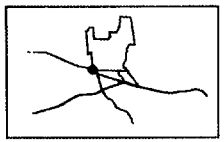


18_MCAS03

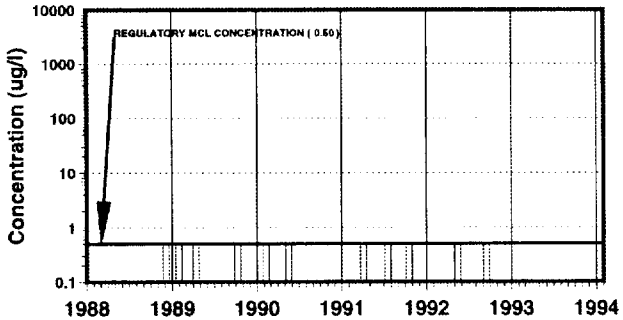
SAMPLING DEPTH (ft bgs)=(345)



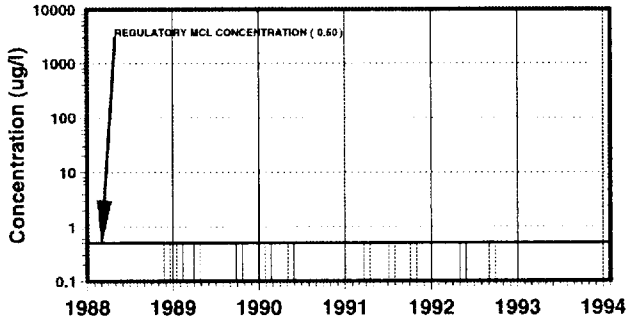
18_MCAS03

SAMPLING DEPTH (ft bgs)=(425)



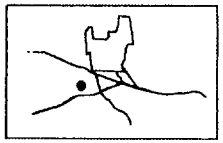
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



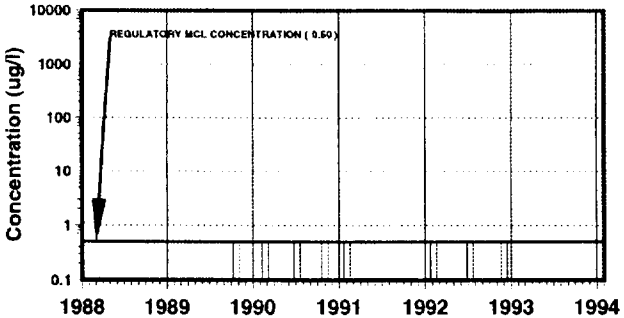
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

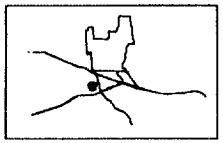
*1,2-DICHLOROETHANE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

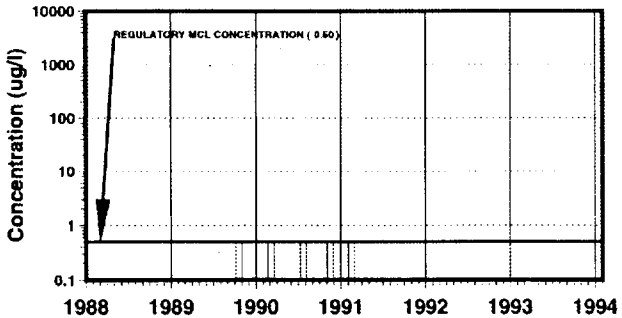
SAMPLING DEPTH (ft bgs)=(181-238)

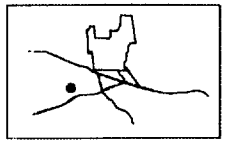


*18*_MCAS05

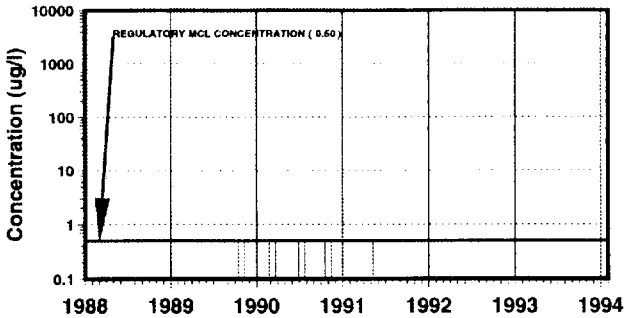
SAMPLING DEPTH (ft bgs)=(142-148)

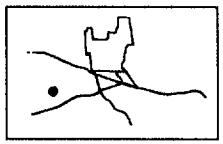


*18*_MCAS06

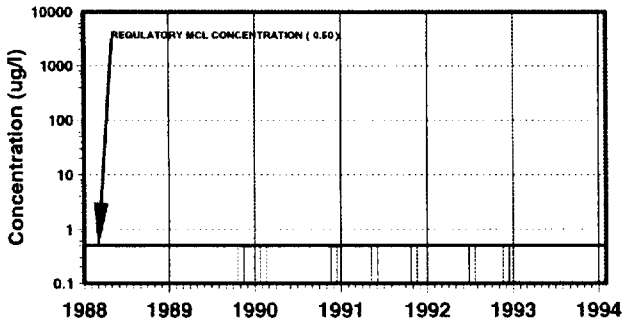
SAMPLING DEPTH (ft bgs)=(167-222)

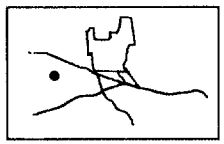


*18*_MCAS08

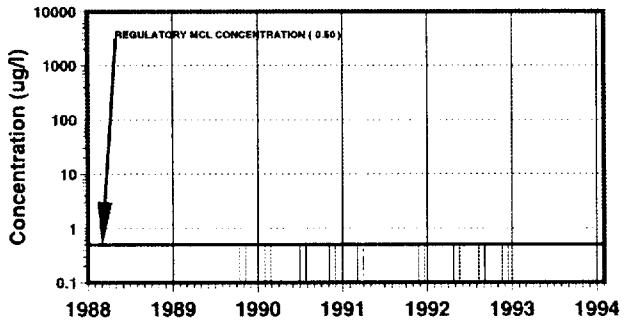
SAMPLING DEPTH (ft bgs)=(392-410)

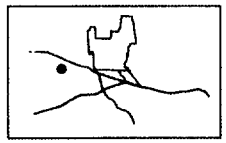


*18*_MCAS09

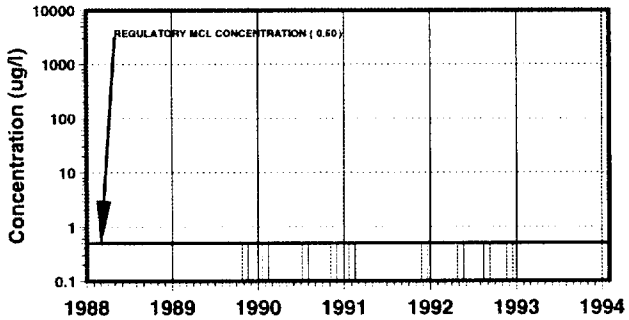
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

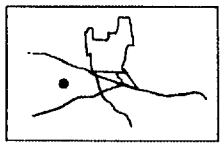
SAMPLING DEPTH (ft bgs)=(355-375)




*Fri Apr 30 21:40:39 1993*

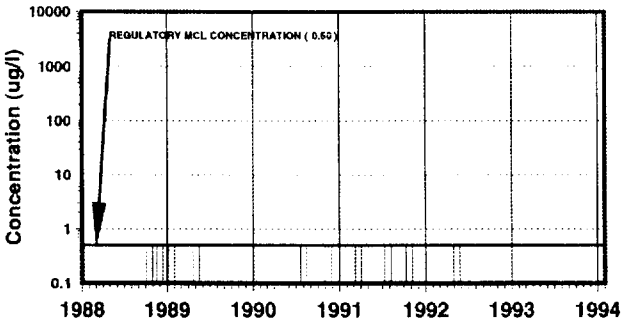
## 1,2-DICHLOROETHANE Concentration

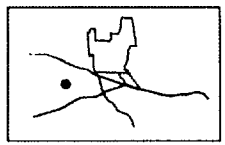
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

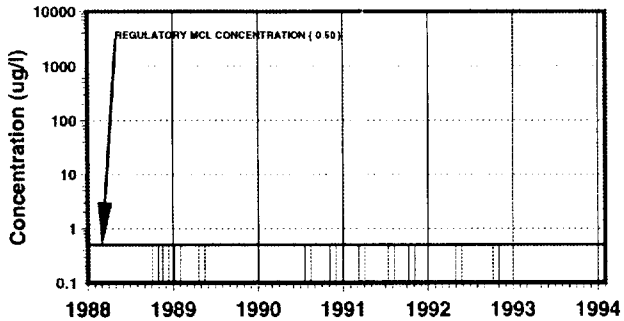
SAMPLING DEPTH (ft bgs)=(94)

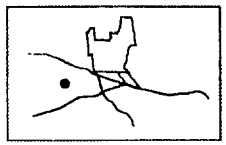


18_MCAS07

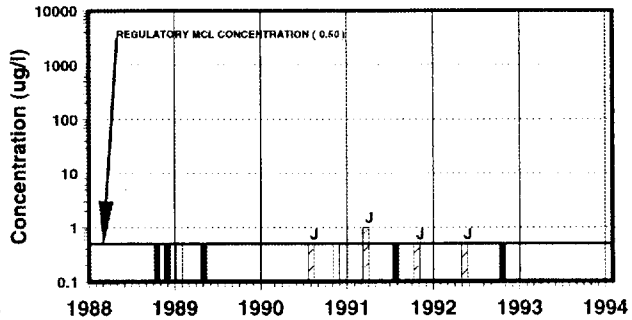
SAMPLING DEPTH (ft bgs)=(194)

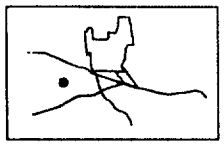


18_MCAS07

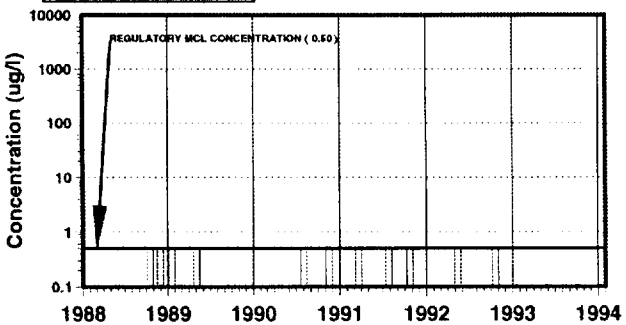
SAMPLING DEPTH (ft bgs)=(354)

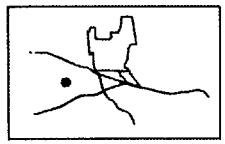


18_MCAS07

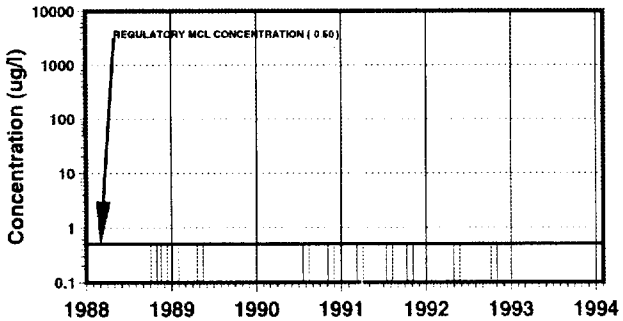
SAMPLING DEPTH (ft bgs)=(444)

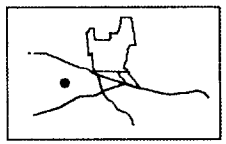


18_MCAS07

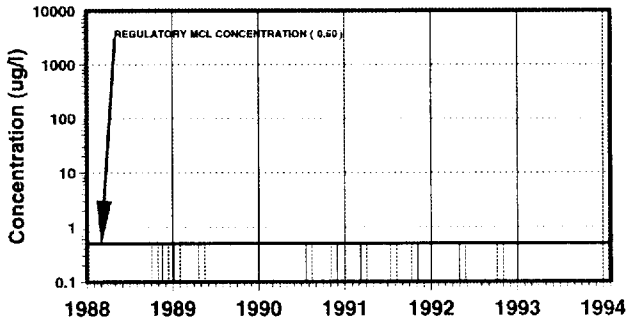
SAMPLING DEPTH (ft bgs)=(514)

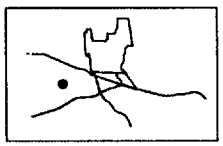


18_MCAS07

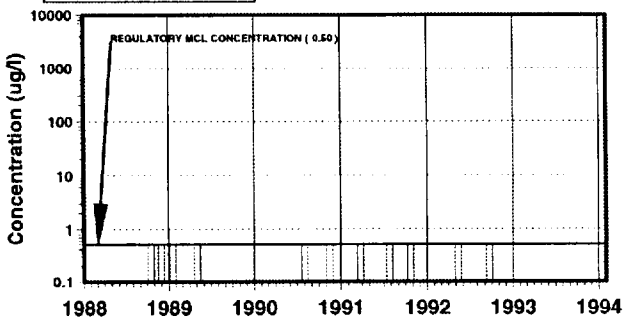
SAMPLING DEPTH (ft bgs)=(804)

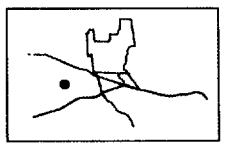


18_MCAS07

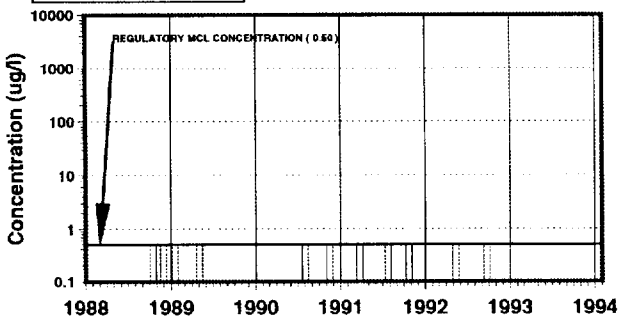
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 16:36:28 1993

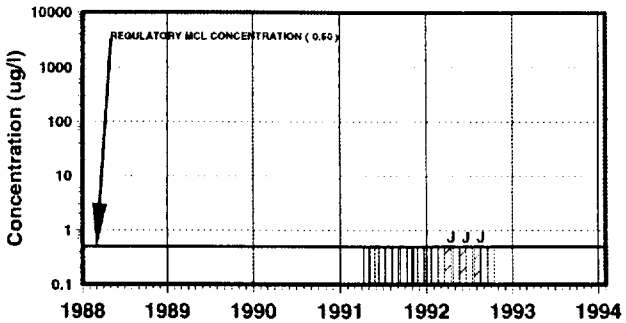
## *1,2-DICHLOROETHANE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

*NO X,Y DATA*

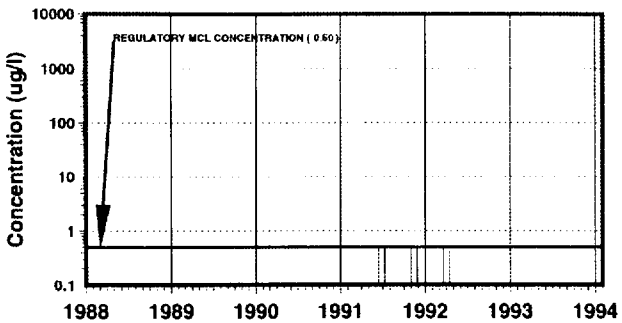
SAMPLING DEPTH (ft bgs)=(370-890)




### *18*_SLAKE

*NO X,Y DATA*

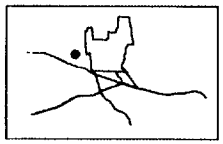
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 16:38:13 1993*

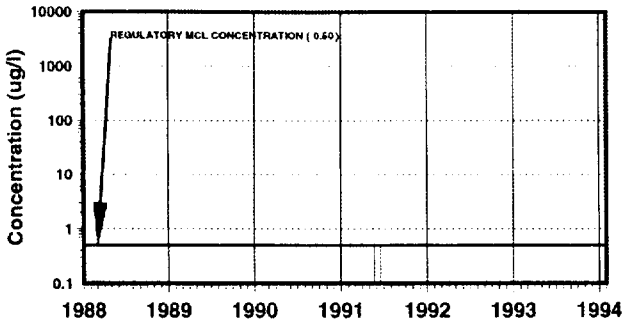
## 1,2-DICHLOROETHANE Concentration

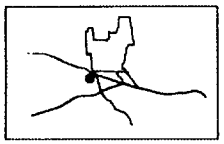
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_TIC037

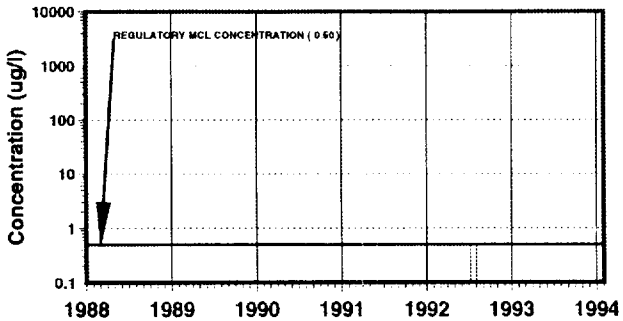
SAMPLING DEPTH (ft bgs)=(255-1560)

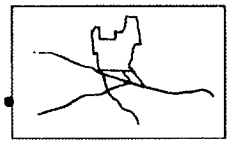


18_TIC047

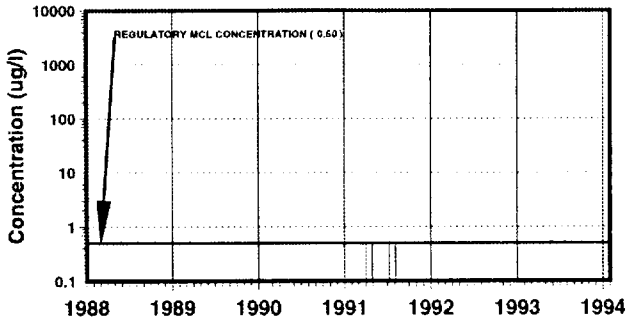
SAMPLING DEPTH (ft bgs)=(268-1107)

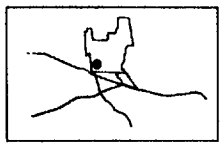


18_TIC051

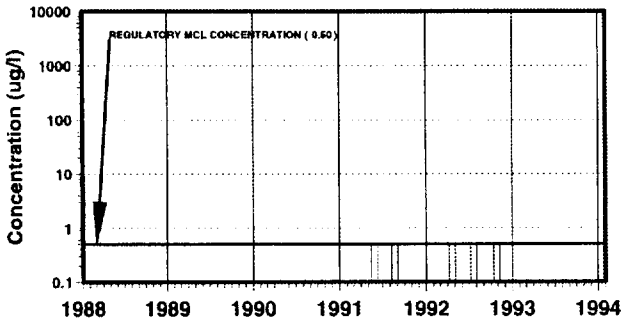
SAMPLING DEPTH (ft bgs)=(220-740)

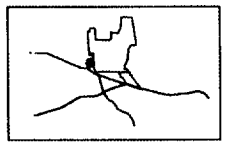


18_TIC055

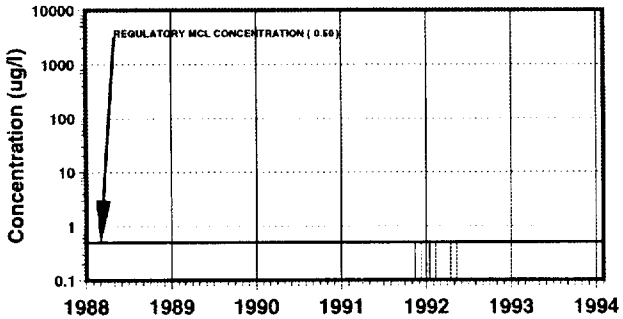
SAMPLING DEPTH (ft bgs)=(496)

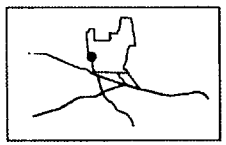


18_TIC056

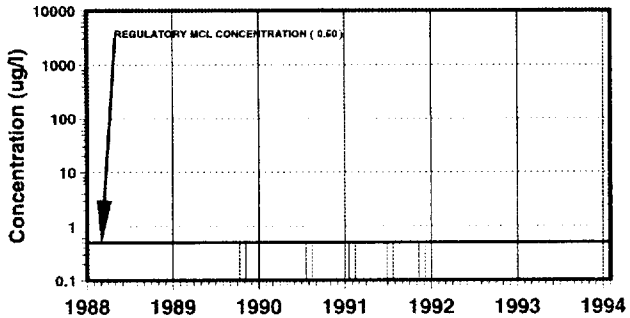
SAMPLING DEPTH (ft bgs)=(336-647)

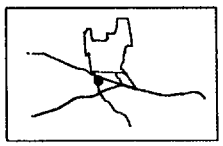


18_TIC061

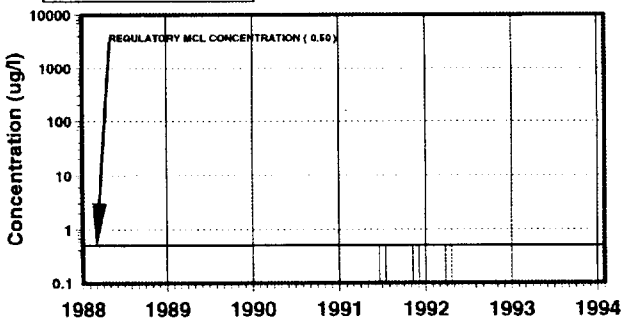
SAMPLING DEPTH (ft bgs)=(248-694)

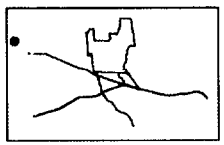


18_TIC068

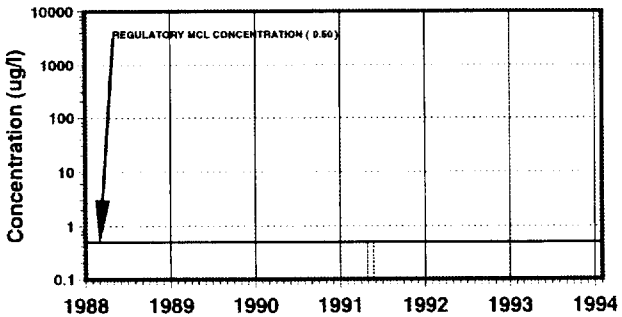
SAMPLING DEPTH (ft bgs)=(274-403)



18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)



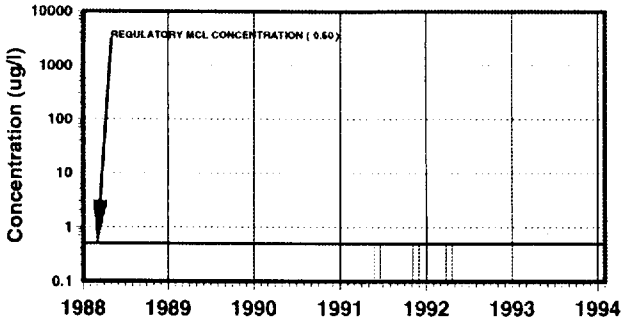

Fri Apr 30 21:43:32 1993

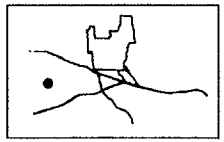
## *1,2-DICHLOROETHANE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_TIC074

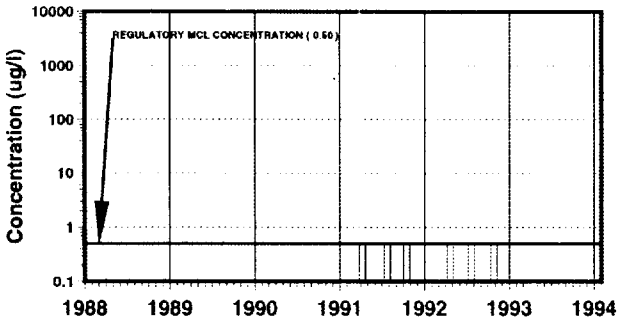
SAMPLING DEPTH (ft bgs)=(210-280)

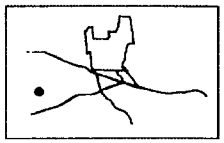


*18*_TIC078

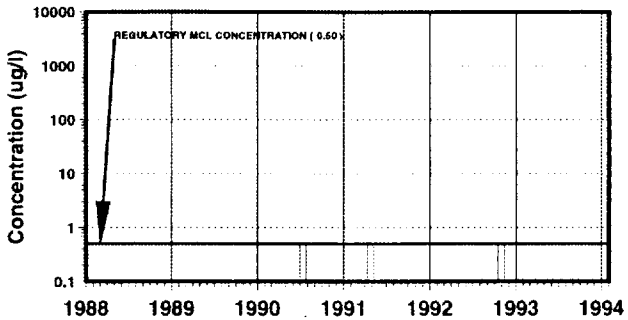
SAMPLING DEPTH (ft bgs)=(410-690)

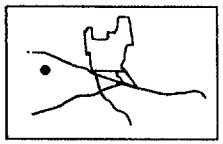


*18*_TIC106

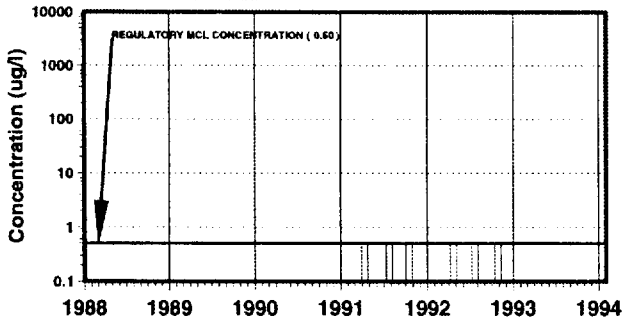
SAMPLING DEPTH (ft bgs)=(405-715)

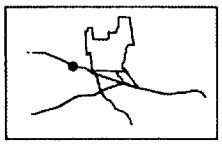


*18*_TIC108

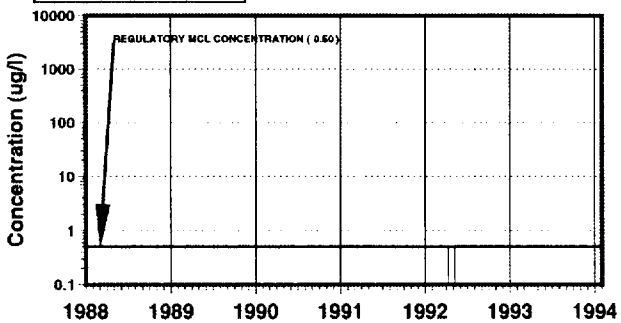
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)

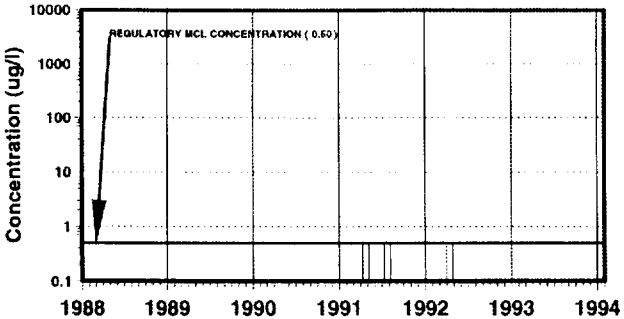


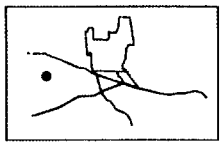
## 1,2-DICHLOROETHANE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

18_TIC111

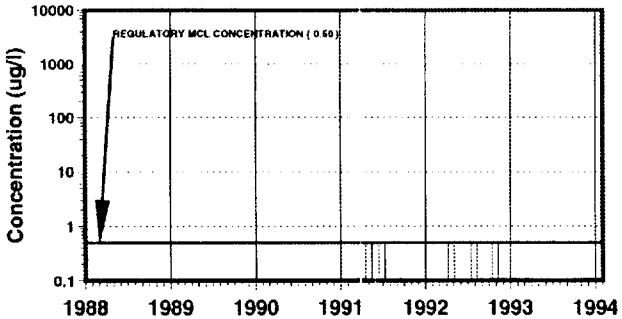
SAMPLING DEPTH (ft bgs)=(750)

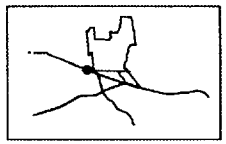


18_TIC113

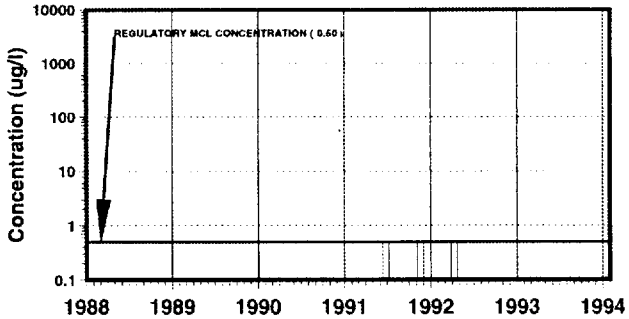
SAMPLING DEPTH (ft bgs)=(280-1080)



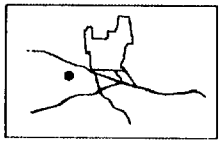
18_TIC117

SAMPLING DEPTH (ft bgs)=(360-635)



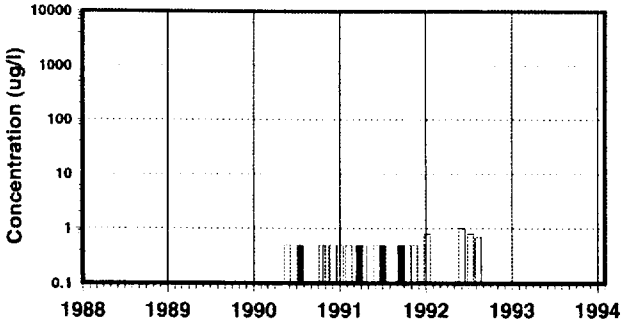
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

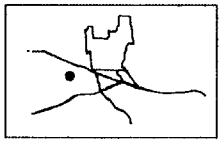
*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

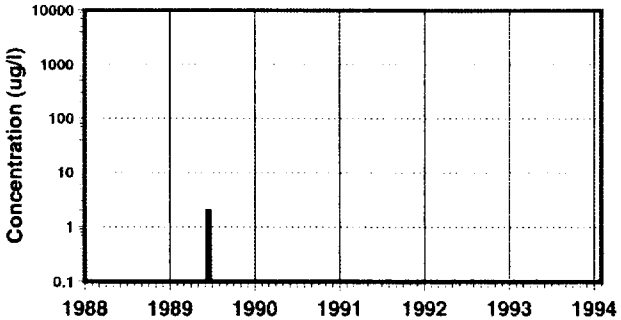
SAMPLING DEPTH (ft bgs)=(220-490)

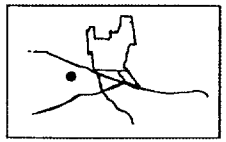


*18*_ET1

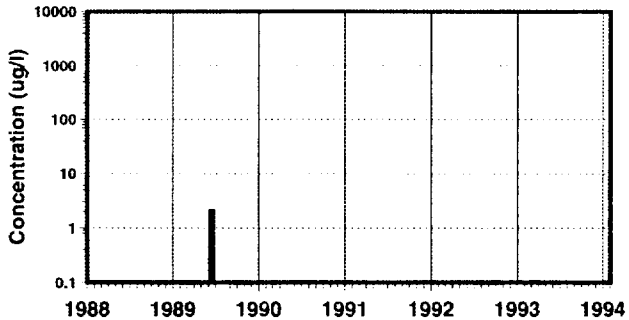
SAMPLING DEPTH (ft bgs)=(200)

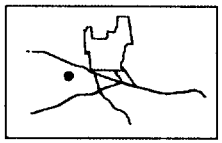


*18*_ET1

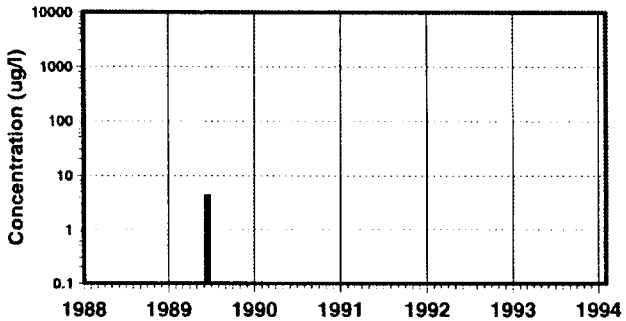
SAMPLING DEPTH (ft bgs)=(300)

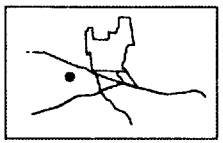


*18*_ET1

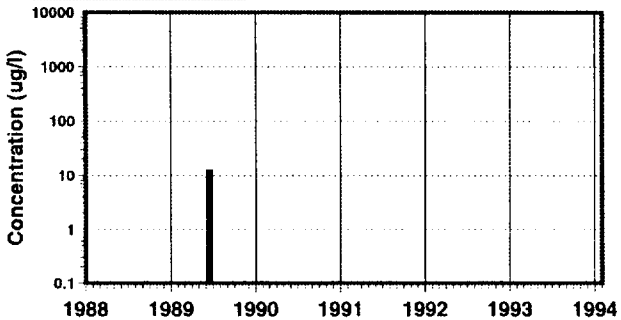
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

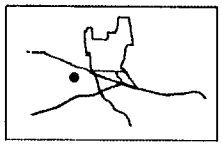
SAMPLING DEPTH (ft bgs)=(440)




*Sat May 1 00:41:19 1993*

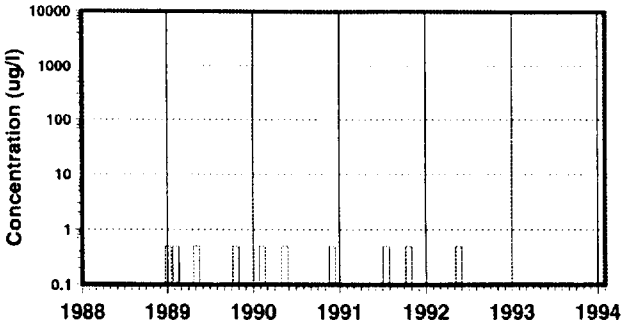
*CAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

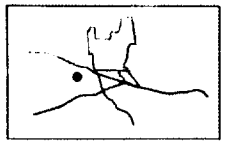
*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS01

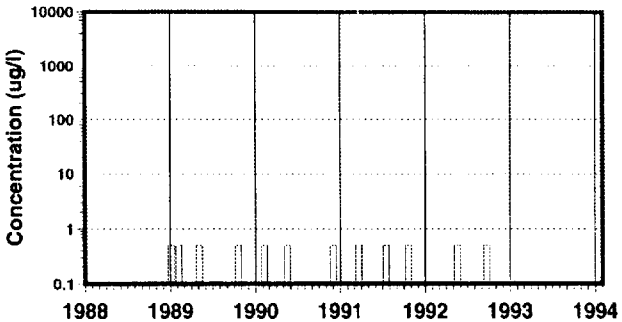
SAMPLING DEPTH (ft bgs)=(65)

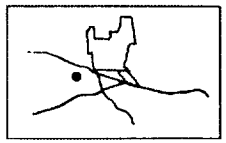


*18*_MCAS01

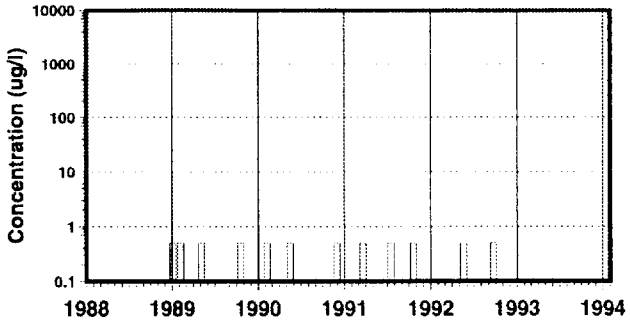
SAMPLING DEPTH (ft bgs)=(155)

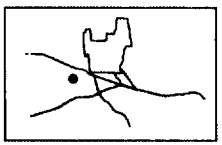


*18*_MCAS01

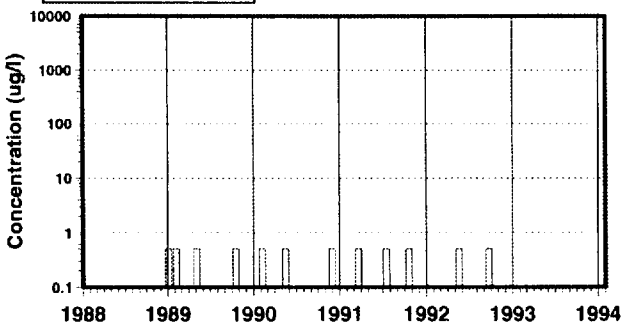
SAMPLING DEPTH (ft bgs)=(215)

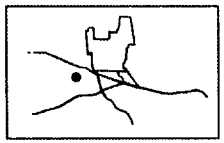


*18*_MCAS01

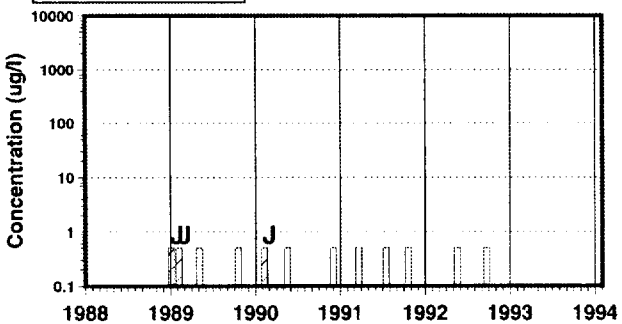
SAMPLING DEPTH (ft bgs)=(275)

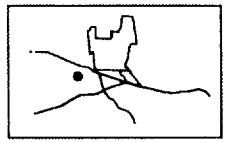


*18*_MCAS01

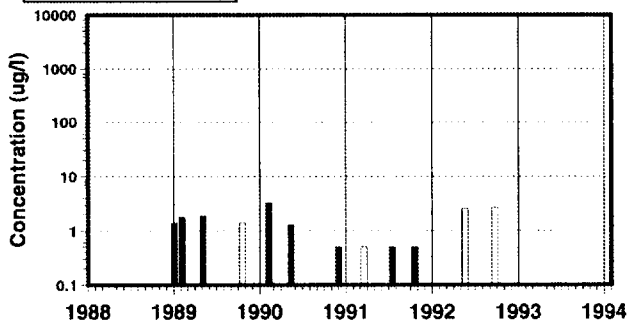
SAMPLING DEPTH (ft bgs)=(335)

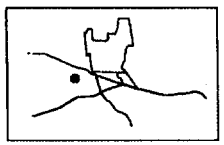


*18*_MCAS01

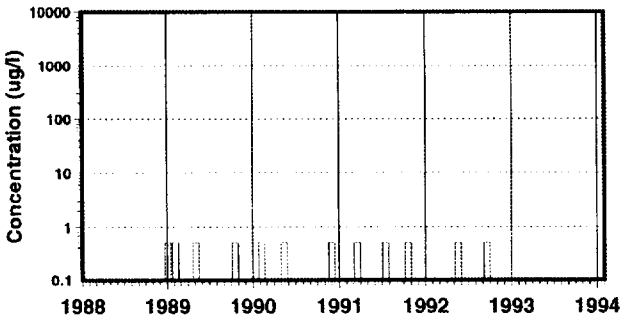
SAMPLING DEPTH (ft bgs)=(455)



*18*_MCAS01

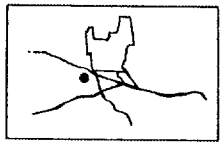
SAMPLING DEPTH (ft bgs)=(545)




*Sat May 1 00:42:28 1993*

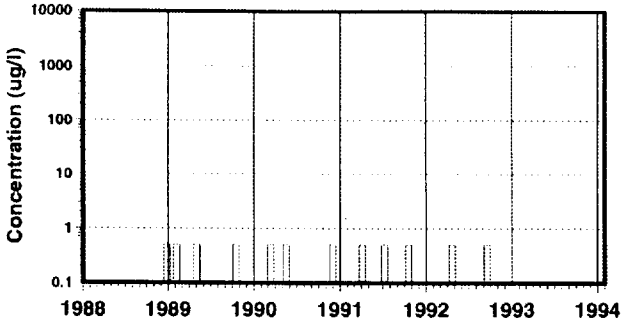
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

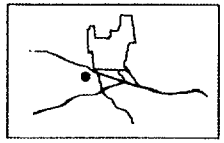
*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

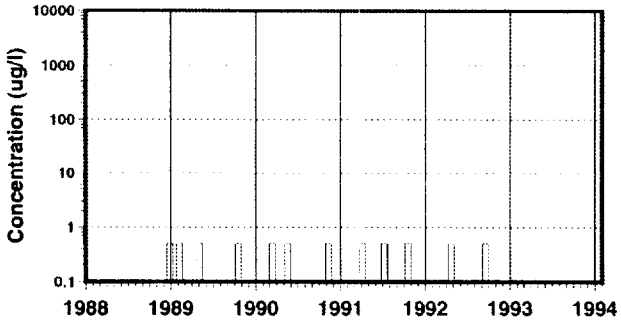
SAMPLING DEPTH (ft bgs)=(45)

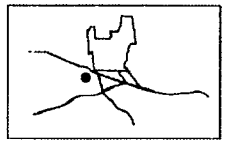


*18*_MCAS02

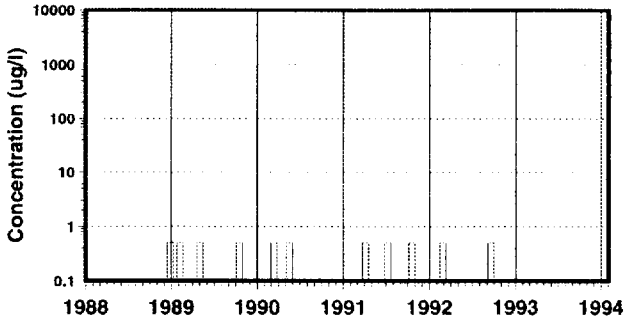
SAMPLING DEPTH (ft bgs)=(135)

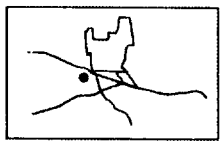


*18*_MCAS02

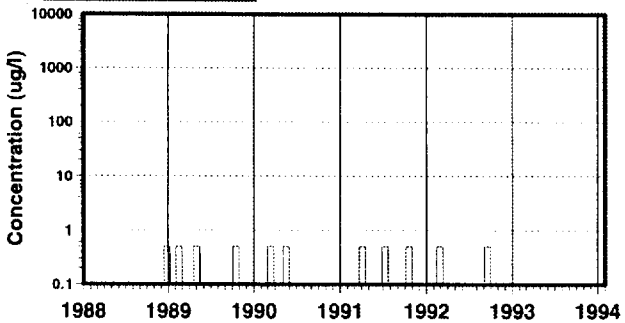
SAMPLING DEPTH (ft bgs)=(205)

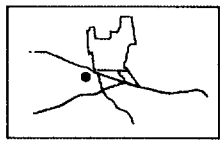


*18*_MCAS02

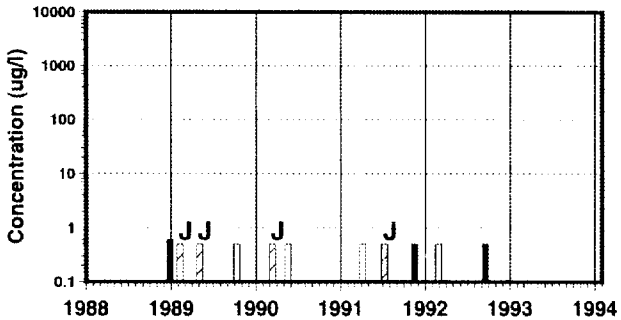
SAMPLING DEPTH (ft bgs)=(375)

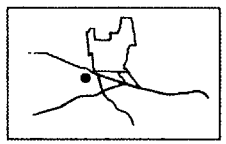


*18*_MCAS02

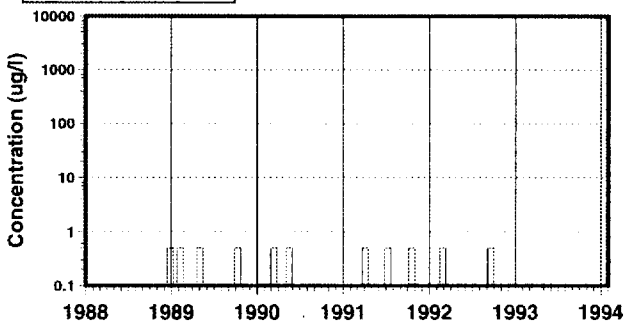
SAMPLING DEPTH (ft bgs)=(425)

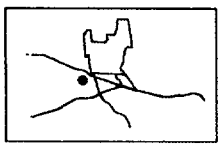


*18*_MCAS02

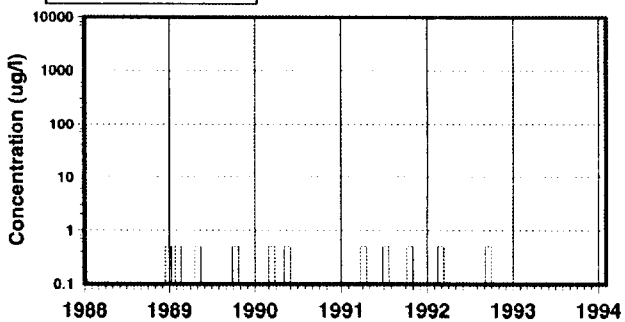
SAMPLING DEPTH (ft bgs)=(495)

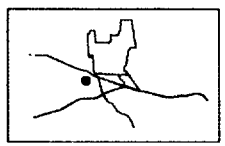


*18*_MCAS02

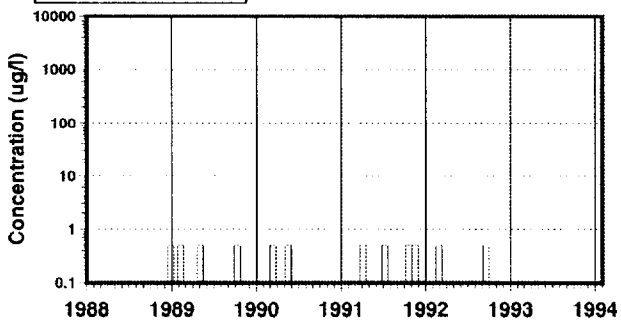
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(625)



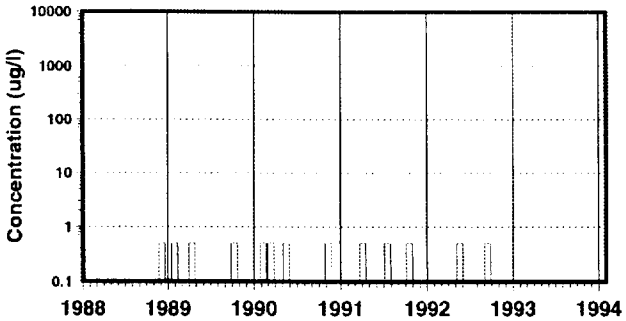

*Sat May 1 00:43:58 1993*

## 1,2-DICHLOROETHENE (TOTAL) Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

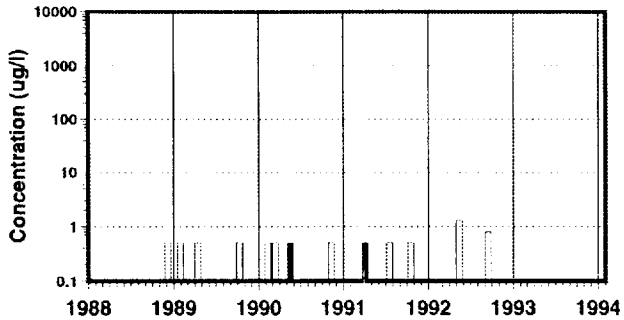
18_MCAS03

SAMPLING DEPTH (ft bgs)=(90)



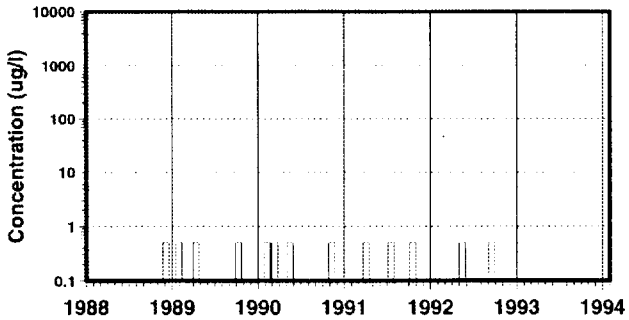
18_MCAS03

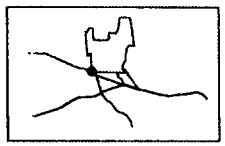
SAMPLING DEPTH (ft bgs)=(165)



18_MCAS03

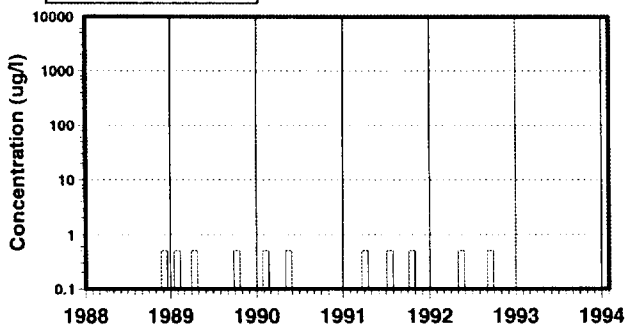
SAMPLING DEPTH (ft bgs)=(225)

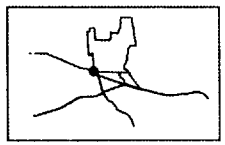


18_MCAS03

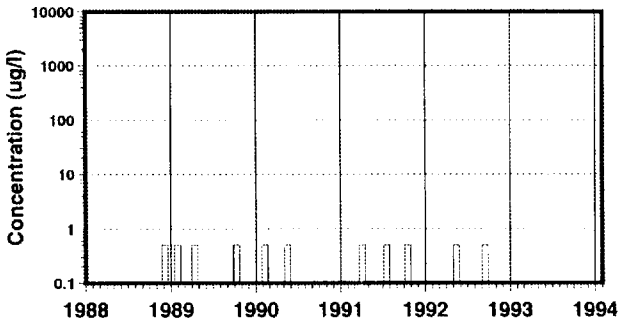
SAMPLING DEPTH (ft bgs)=(345)

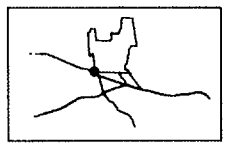


18_MCAS03

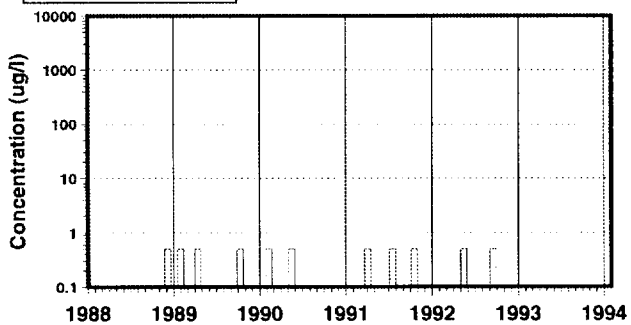
SAMPLING DEPTH (ft bgs)=(425)



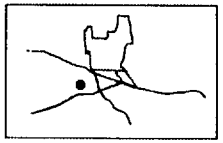
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



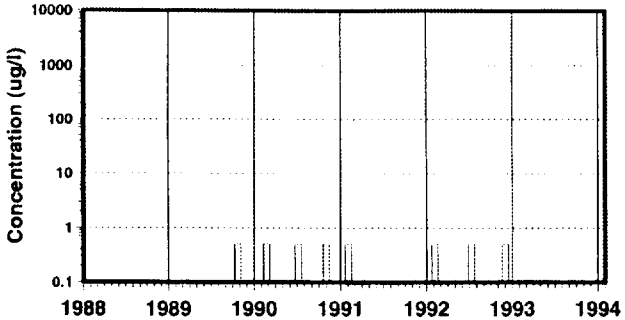
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

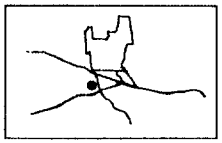
*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

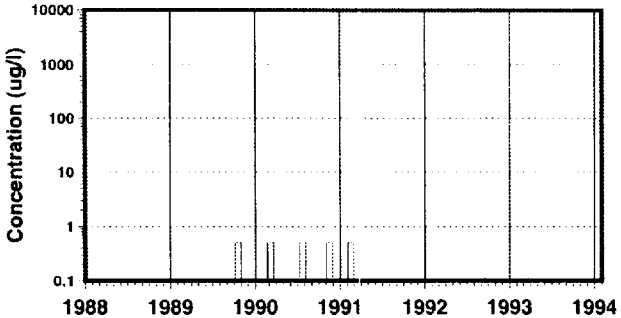
SAMPLING DEPTH (ft bgs)=(181-236)

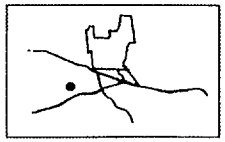


*18*_MCAS05

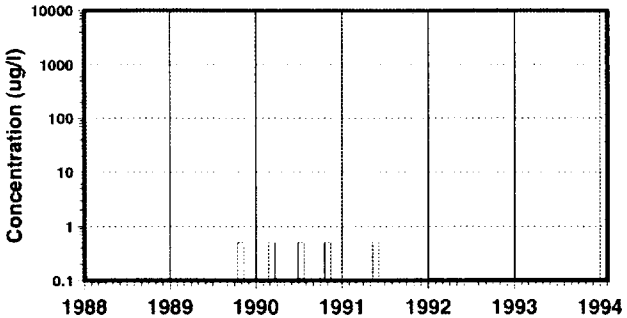
SAMPLING DEPTH (ft bgs)=(142-148)

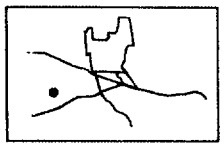


*18*_MCAS06

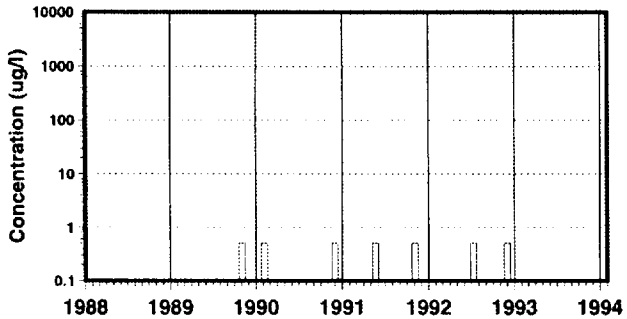
SAMPLING DEPTH (ft bgs)=(167-222)

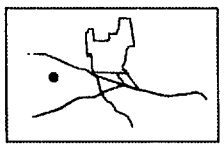


*18*_MCAS08

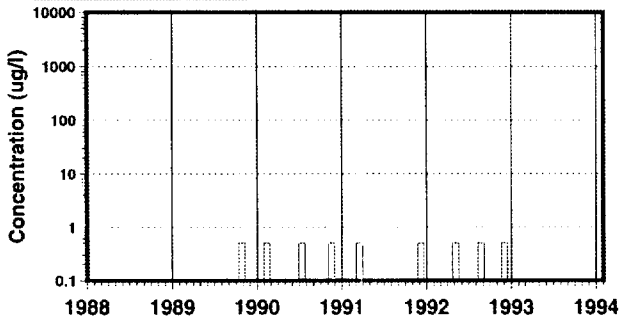
SAMPLING DEPTH (ft bgs)=(392-410)

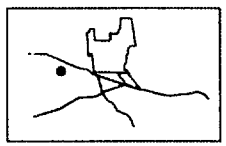


*18*_MCAS09

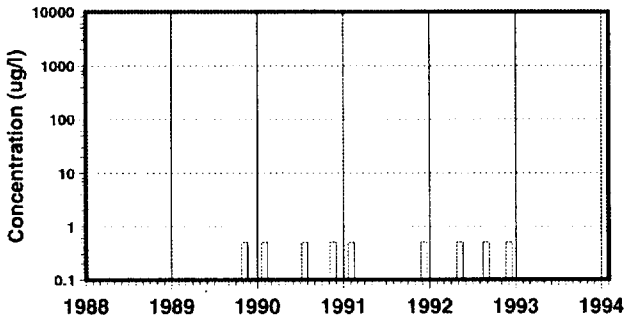
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

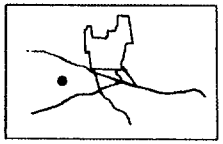
SAMPLING DEPTH (ft bgs)=(355-375)




*Sat May 1 00:46:59 1993*

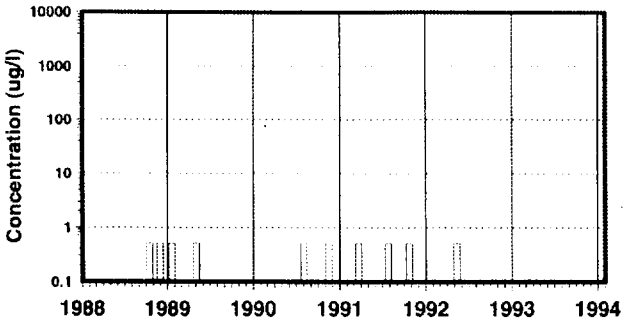
## 1,2-DICHLOROETHENE (TOTAL) Concentration

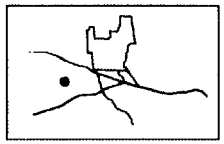
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

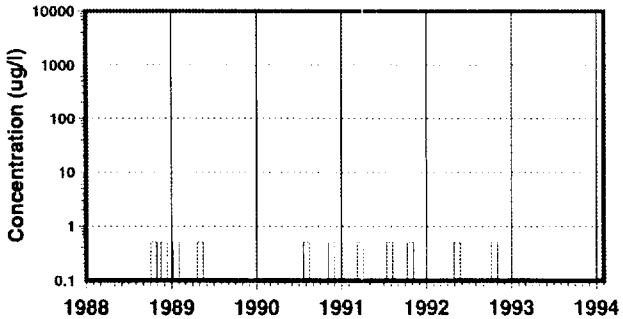
SAMPLING DEPTH (ft bgs)=(94)

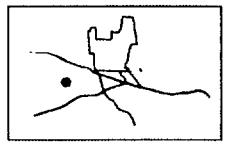


18_MCAS07

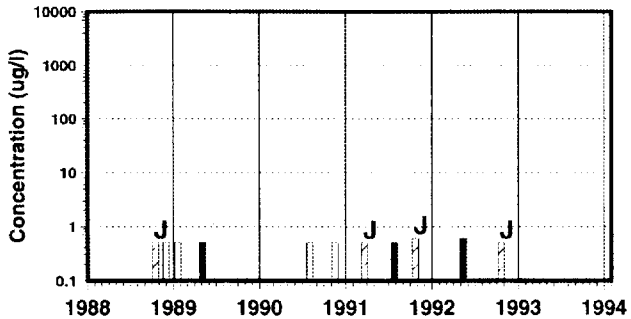
SAMPLING DEPTH (ft bgs)=(194)

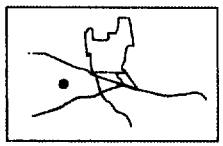


18_MCAS07

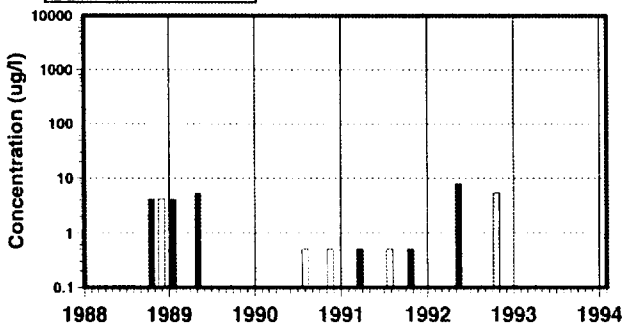
SAMPLING DEPTH (ft bgs)=(354)

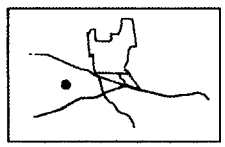


18_MCAS07

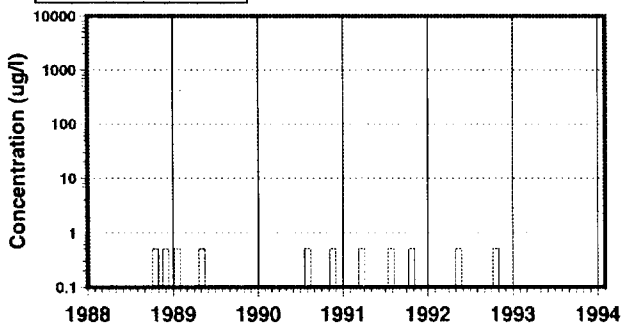
SAMPLING DEPTH (ft bgs)=(444)

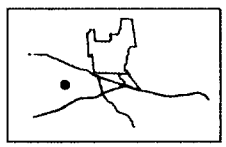


18_MCAS07

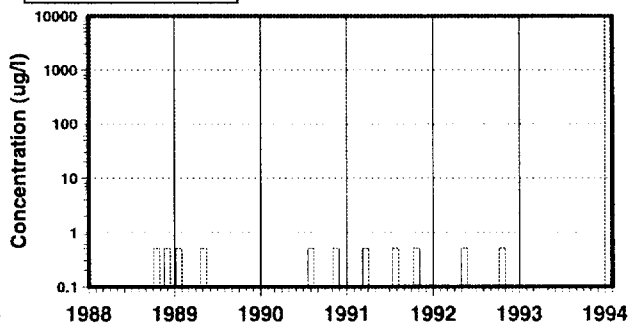
SAMPLING DEPTH (ft bgs)=(514)

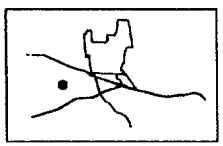


18_MCAS07

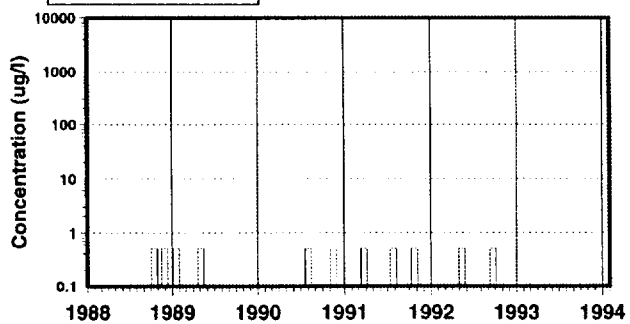
SAMPLING DEPTH (ft bgs)=(804)

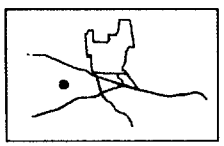


18_MCAS07

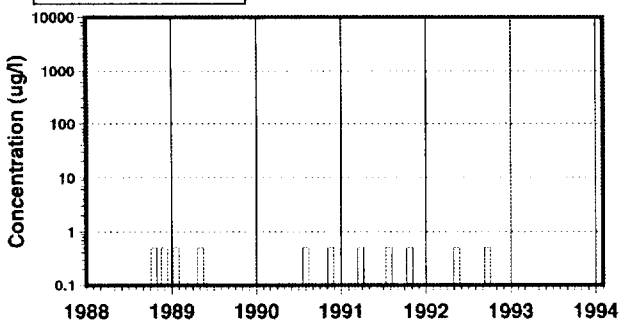
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 16:39:37 1993

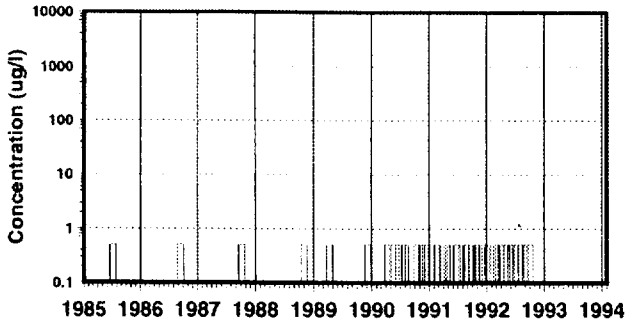
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_NLAKE

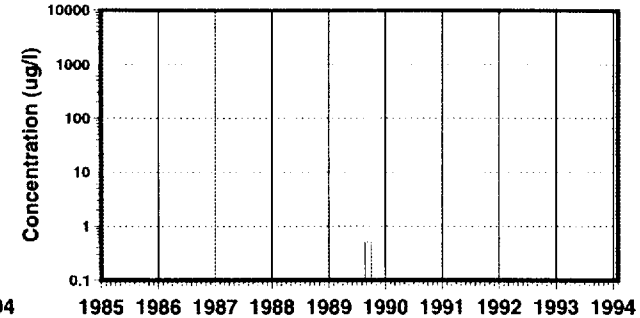
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(370-890)



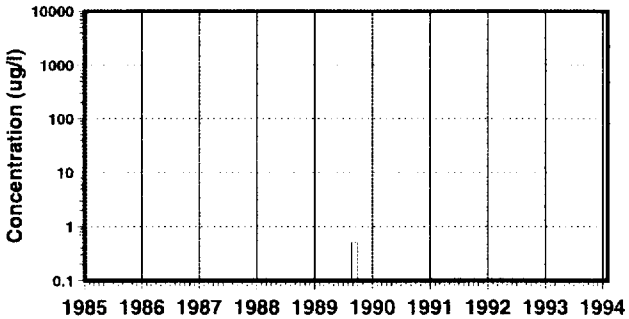
*18*_RW3

SAMPLING DEPTH (ft bgs)=(370-390)



*18*_RW4

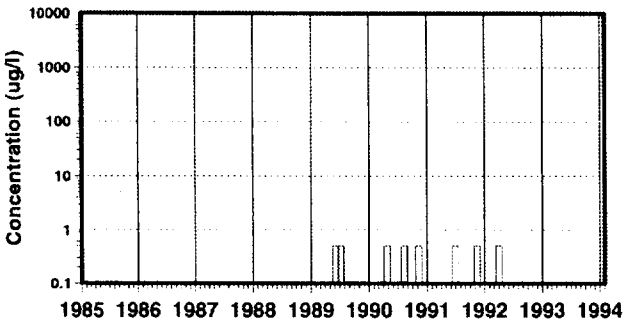
SAMPLING DEPTH (ft bgs)=(65-85)




*18*_SLAKE

*NO X,Y DATA*

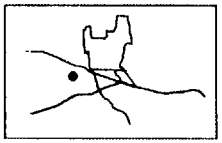
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 16:41:20 1993*

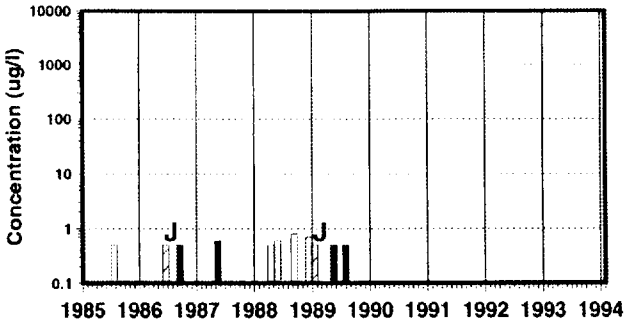
## 1,2-DICHLOROETHENE (TOTAL) Concentration

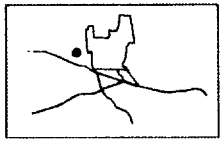
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

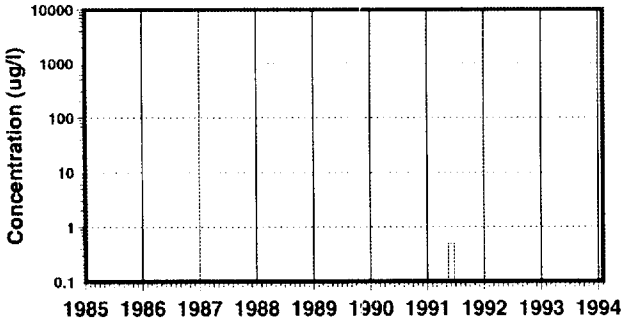
SAMPLING DEPTH (ft bgs)=(263-1503)

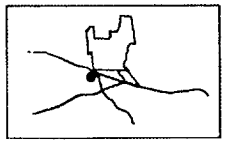


### 18_TIC037

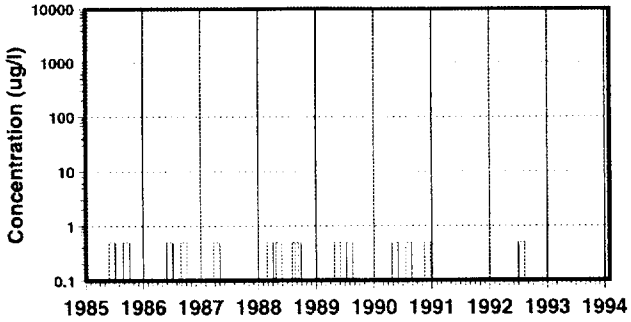
SAMPLING DEPTH (ft bgs)=(255-1560)

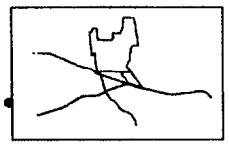


### 18_TIC047

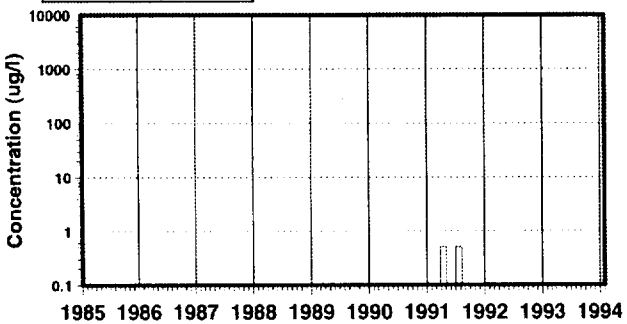
SAMPLING DEPTH (ft bgs)=(268-1107)

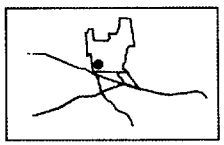


### 18_TIC051

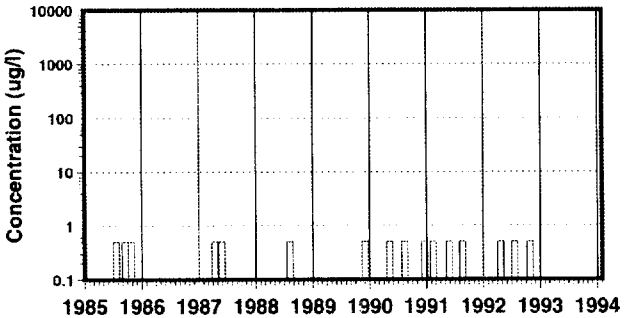
SAMPLING DEPTH (ft bgs)=(220-740)

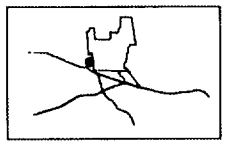


### 18_TIC055

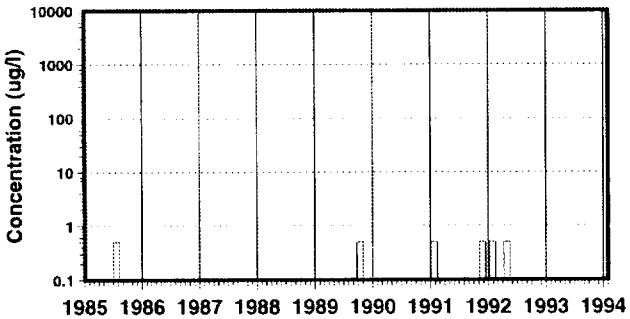
SAMPLING DEPTH (ft bgs)=(496)

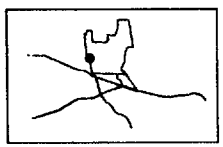


### 18_TIC056

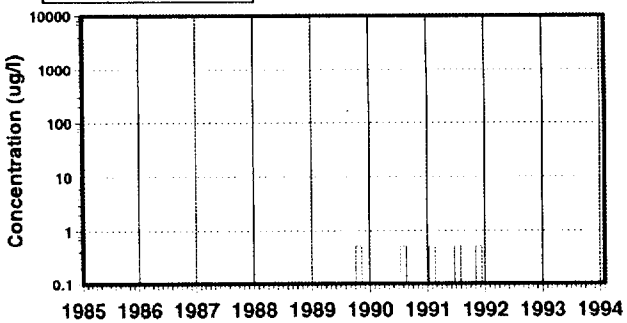
SAMPLING DEPTH (ft bgs)=(336-647)

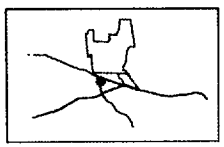


### 18_TIC061

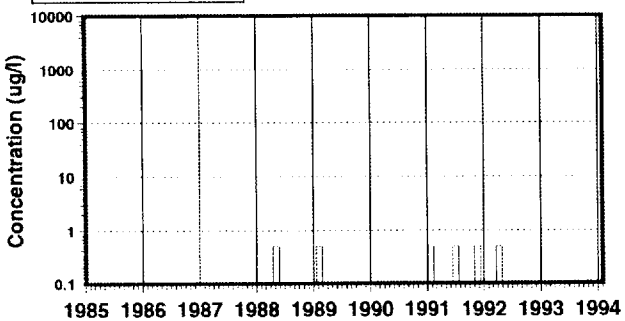
SAMPLING DEPTH (ft bgs)=(248-694)

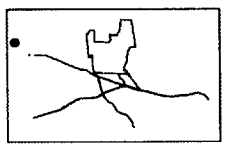


### 18_TIC068

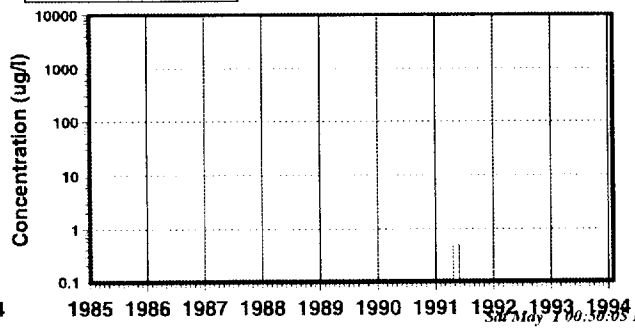
SAMPLING DEPTH (ft bgs)=(274-403)



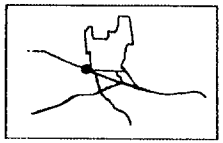
### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)



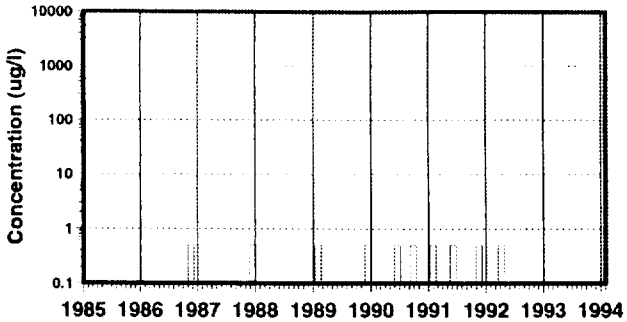
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

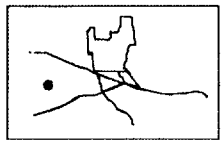
*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

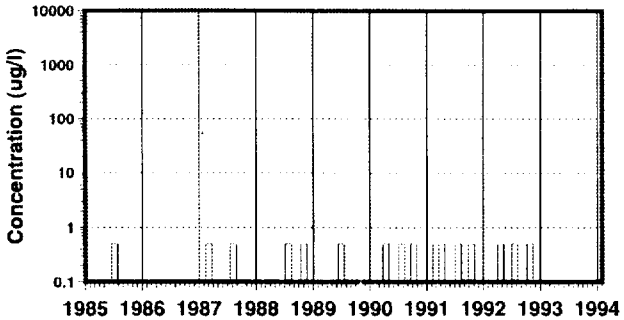
SAMPLING DEPTH (ft bgs)=(210-280)

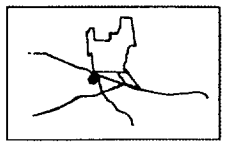


*18*_TIC078

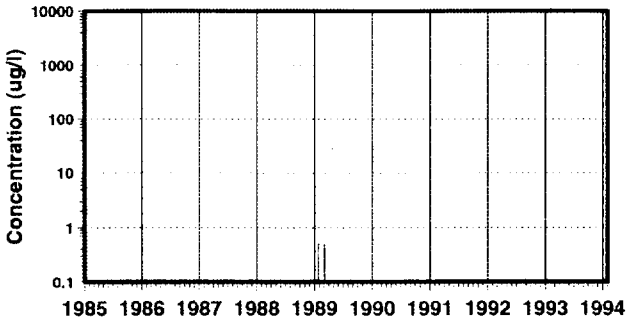
SAMPLING DEPTH (ft bgs)=(410-690)

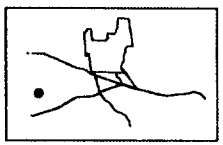


*18*_TIC083

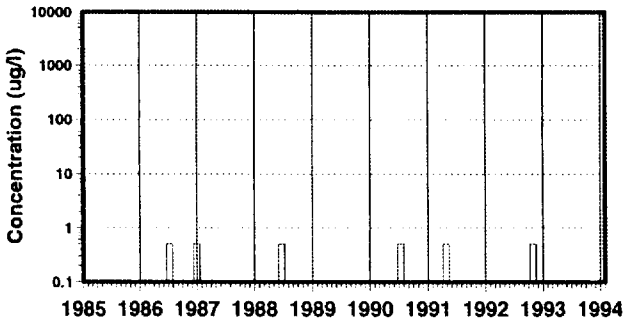
SAMPLING DEPTH (ft bgs)=(261-402)

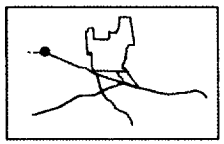


*18*_TIC106

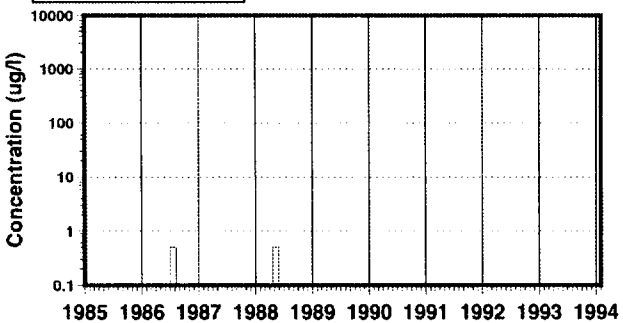
SAMPLING DEPTH (ft bgs)=(405-715)

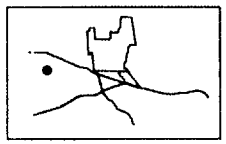


*18*_TIC107

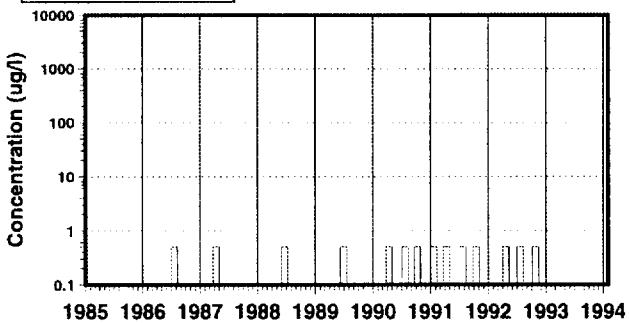
SAMPLING DEPTH (ft bgs)=(230-980)

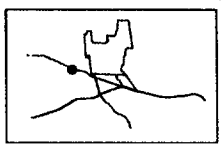


*18*_TIC108

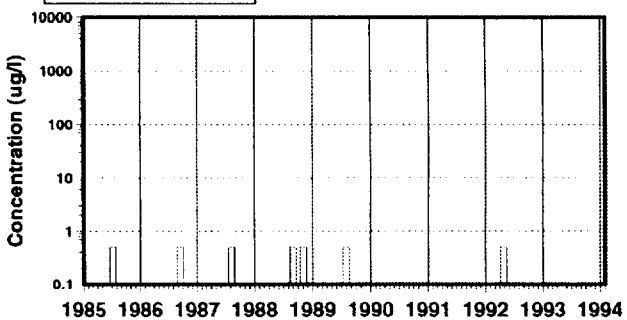
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

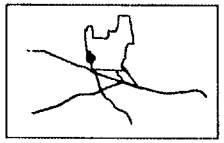
SAMPLING DEPTH (ft bgs)=(182-1030)




*Sat May 1 00:51:57 1993*

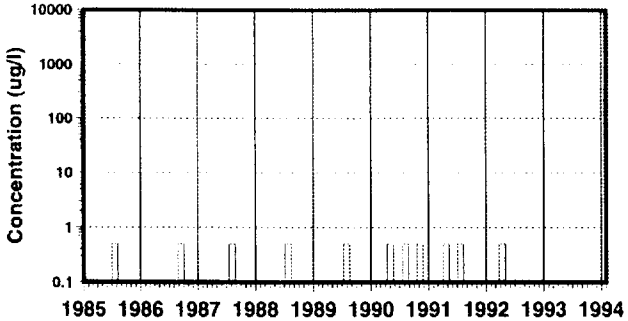
## 1,2-DICHLOROETHENE (TOTAL) Concentration

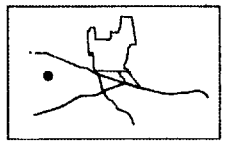
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC111

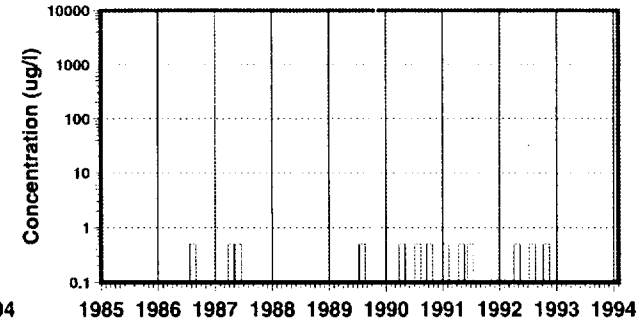
SAMPLING DEPTH (ft bgs)=(750)

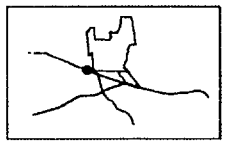


### 18_TIC113

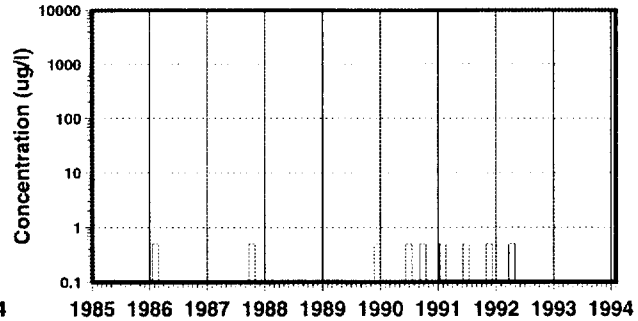
SAMPLING DEPTH (ft bgs)=(280-1080)

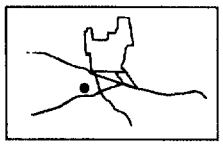


### 18_TIC117

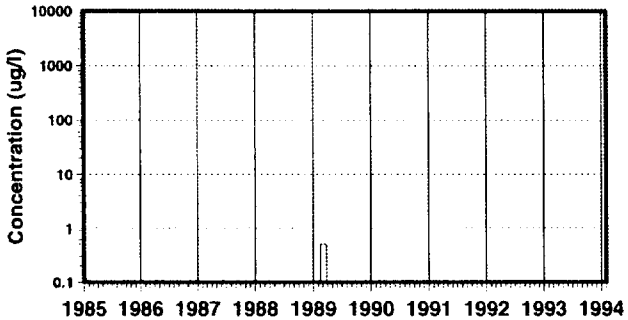
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



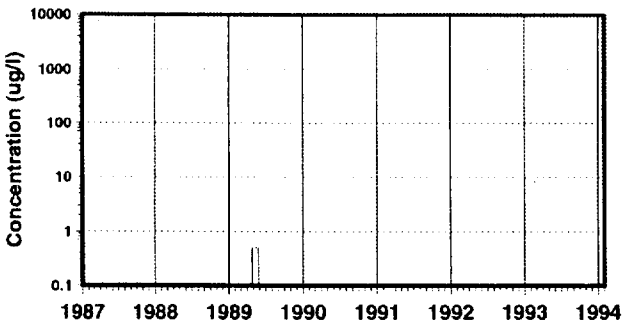
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*1,2-DICHLOROETHENE (TOTAL) Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

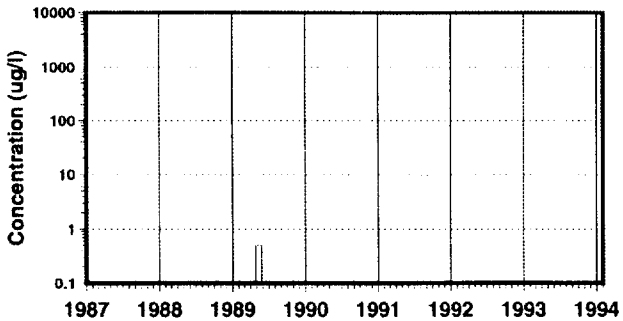
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

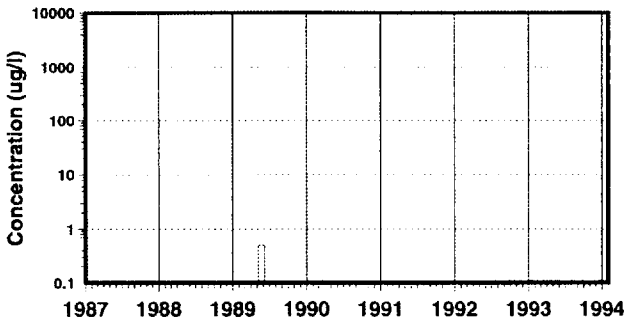
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

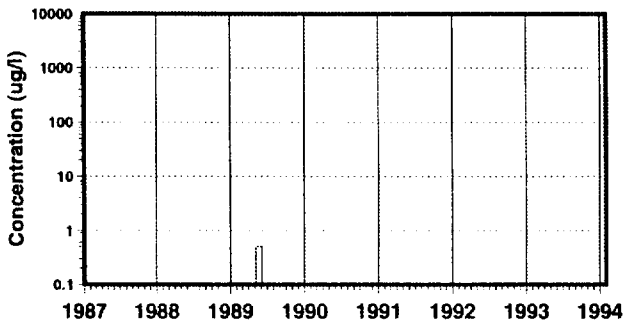
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

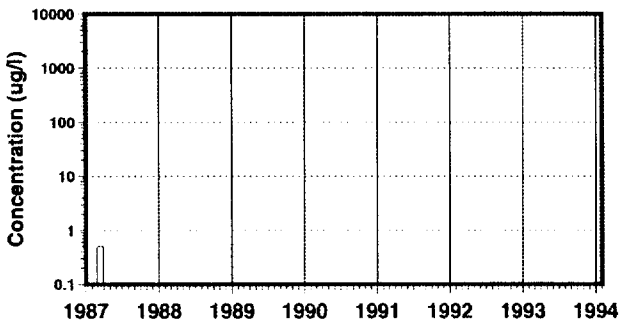
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

*NO X,Y DATA*

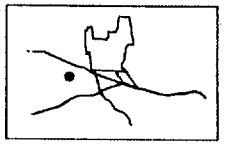
SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 16:43:10 1993*

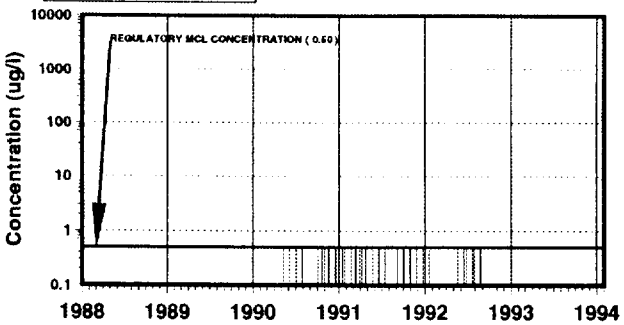
## *CARBON TETRACHLORIDE Concentration*

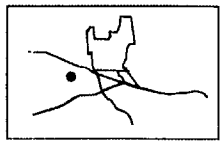
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

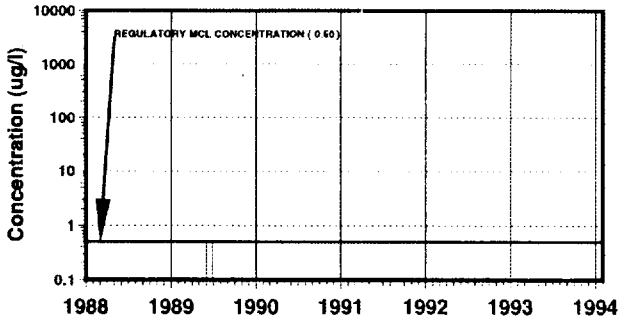
SAMPLING DEPTH (ft bgs)=(220-490)

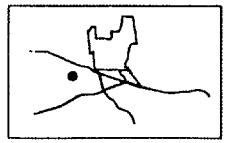


*18*_ET1

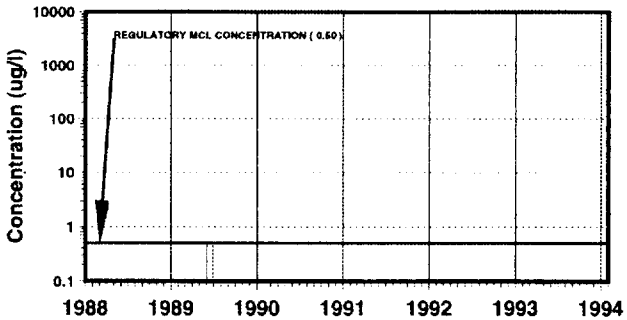
SAMPLING DEPTH (ft bgs)=(200)

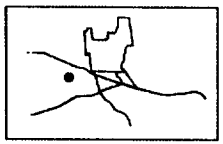


*18*_ET1

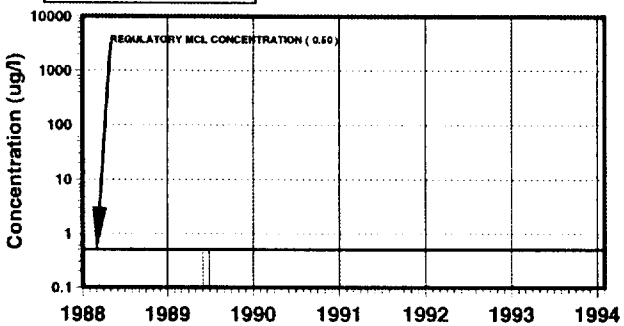
SAMPLING DEPTH (ft bgs)=(300)

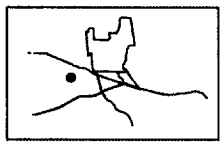


*18*_ET1

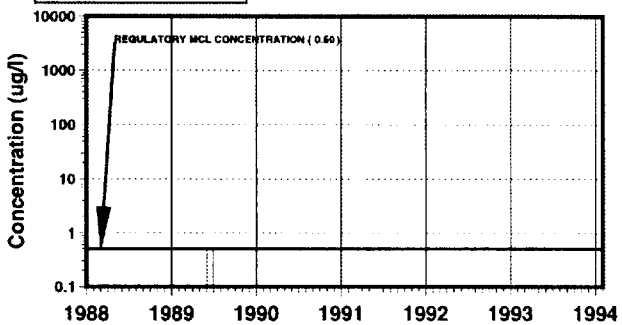
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

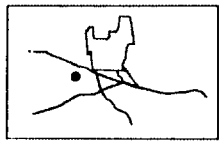
SAMPLING DEPTH (ft bgs)=(440)




*Fri Apr 30 23:20:37 1993*

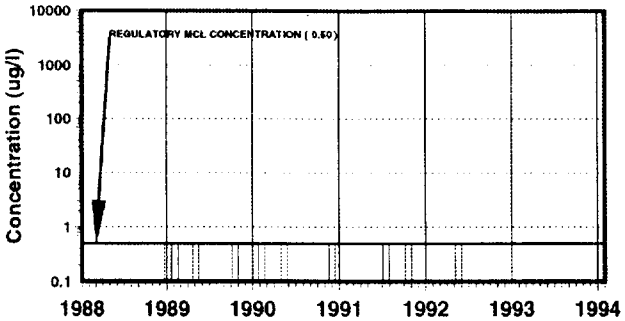
## CARBON TETRACHLORIDE Concentration

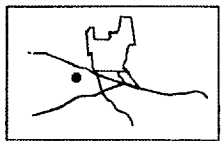
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

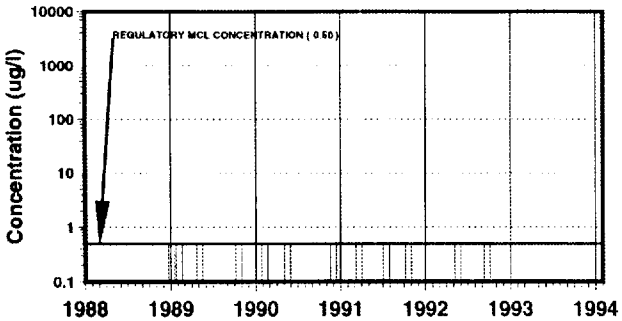
SAMPLING DEPTH (ft bgs)=(65)

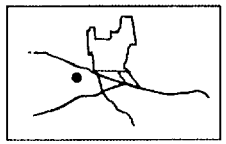


18_MCAS01

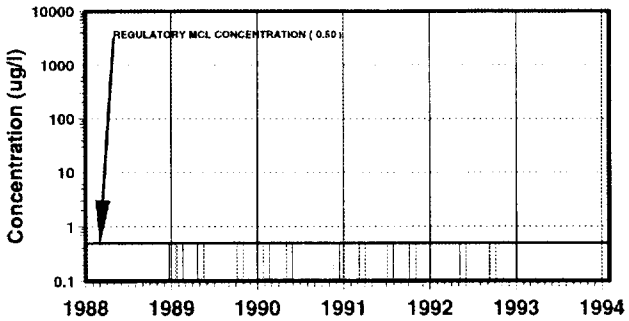
SAMPLING DEPTH (ft bgs)=(155)

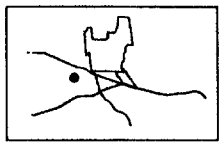


18_MCAS01

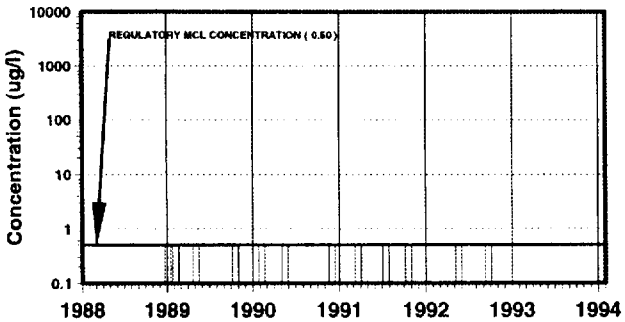
SAMPLING DEPTH (ft bgs)=(215)

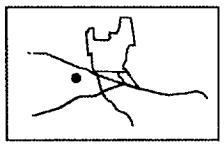


18_MCAS01

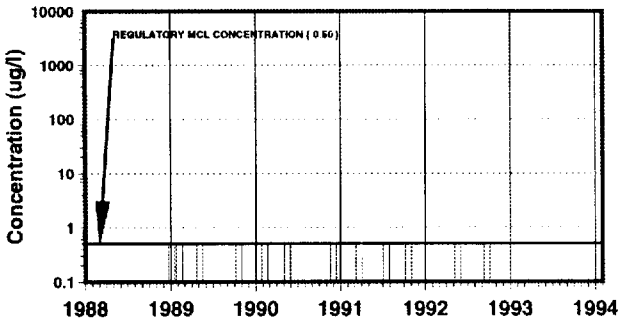
SAMPLING DEPTH (ft bgs)=(275)

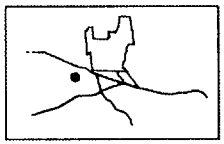


18_MCAS01

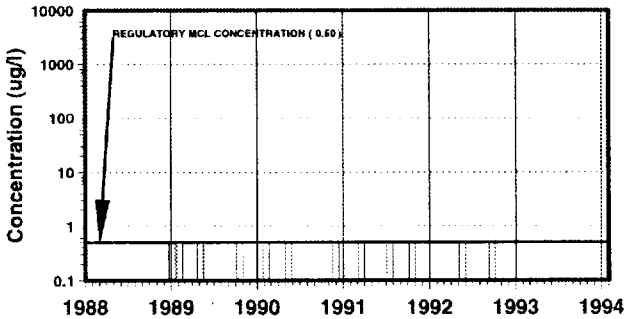
SAMPLING DEPTH (ft bgs)=(335)

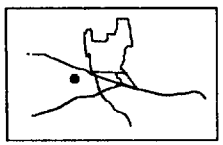


18_MCAS01

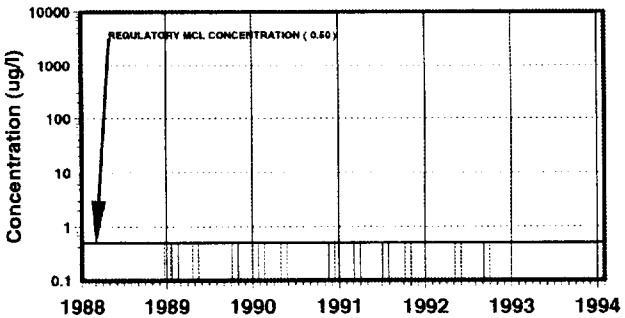
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

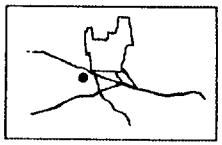
SAMPLING DEPTH (ft bgs)=(545)




Fri Apr 30 23:21:47 1993

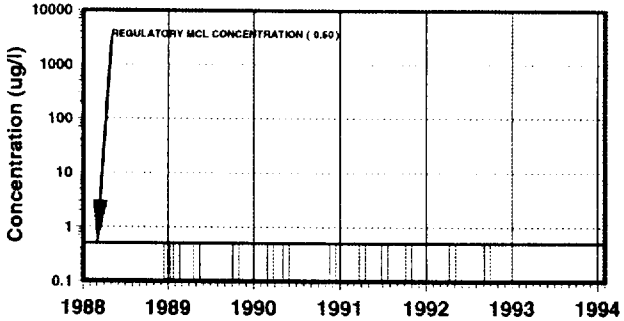
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

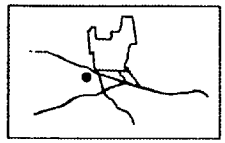
*CARBON TETRACHLORIDE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

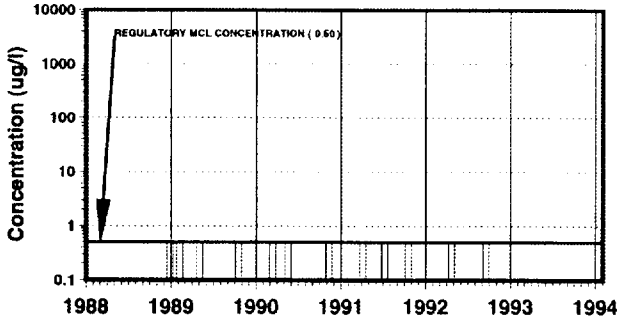
SAMPLING DEPTH (ft bgs)=(45)

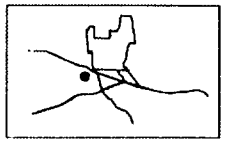


*18*_MCAS02

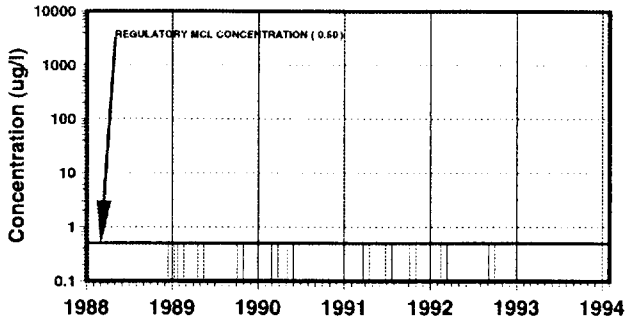
SAMPLING DEPTH (ft bgs)=(135)

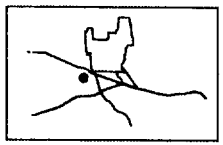


*18*_MCAS02

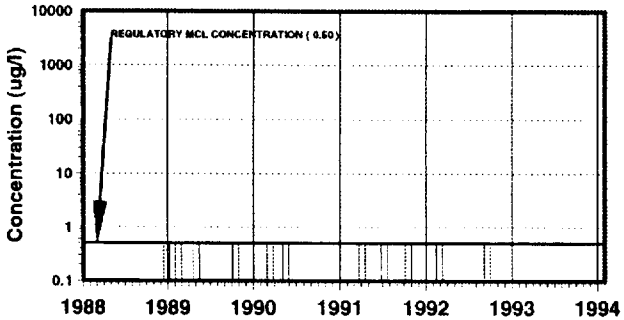
SAMPLING DEPTH (ft bgs)=(205)

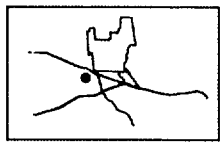


*18*_MCAS02

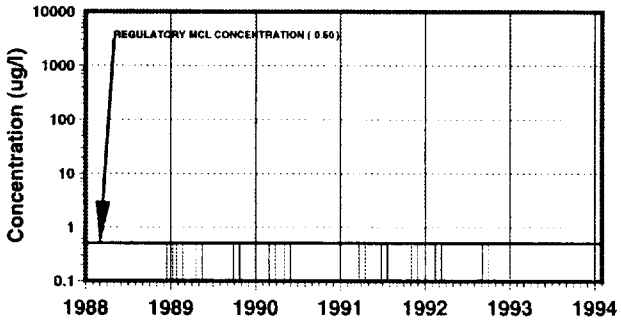
SAMPLING DEPTH (ft bgs)=(375)

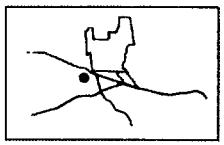


*18*_MCAS02

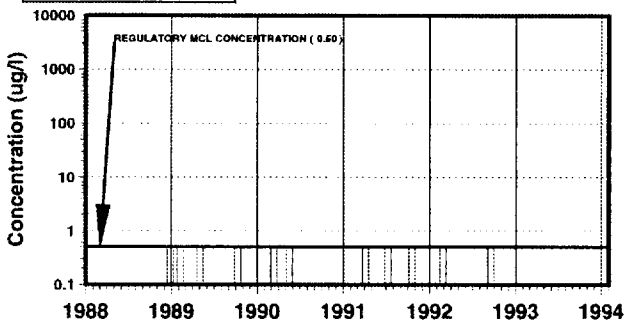
SAMPLING DEPTH (ft bgs)=(425)

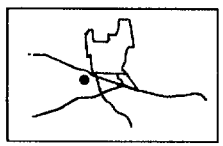


*18*_MCAS02

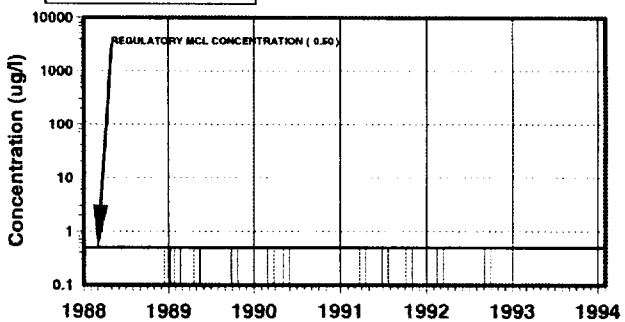
SAMPLING DEPTH (ft bgs)=(495)

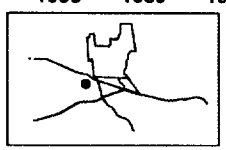


*18*_MCAS02

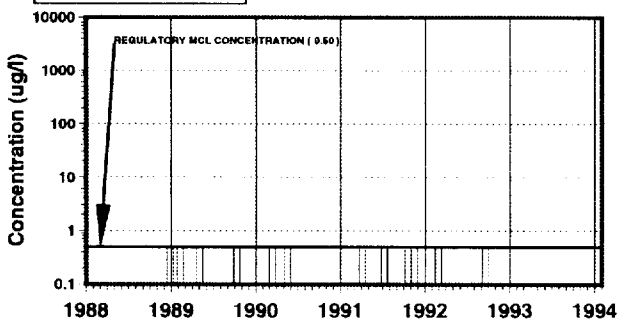
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

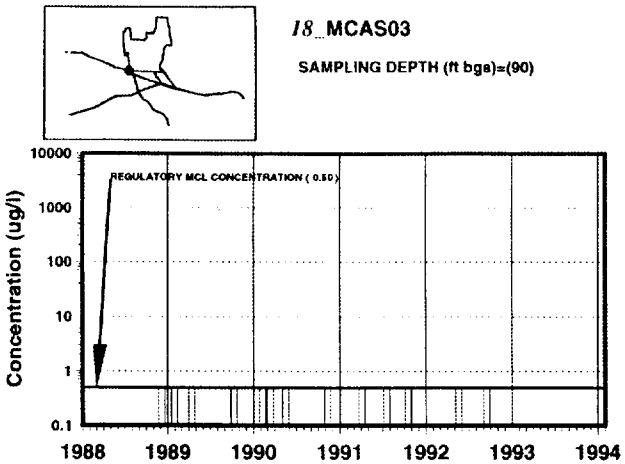
SAMPLING DEPTH (ft bgs)=(625)

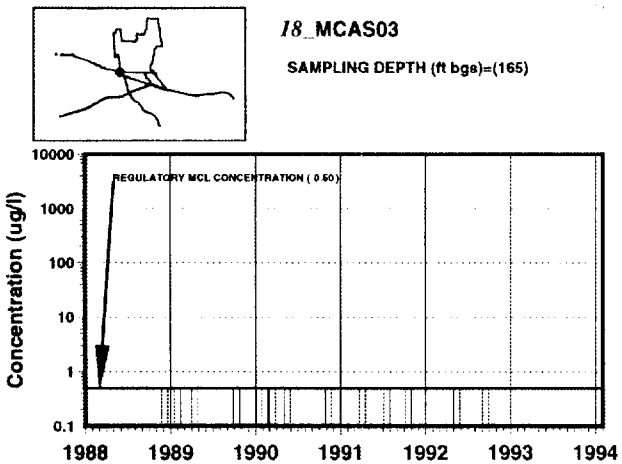


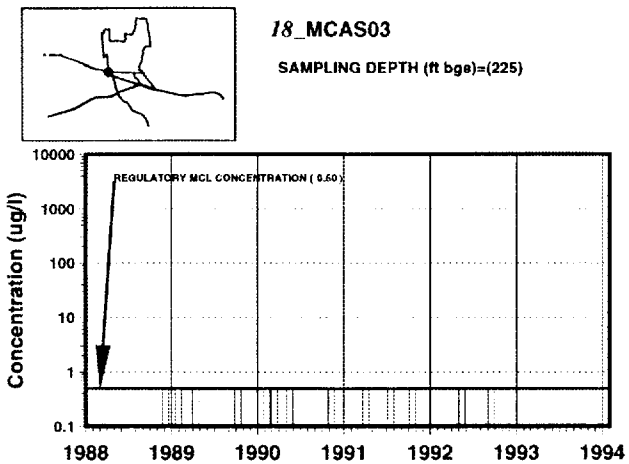

*Fri Apr 30 23:23:18 1993*

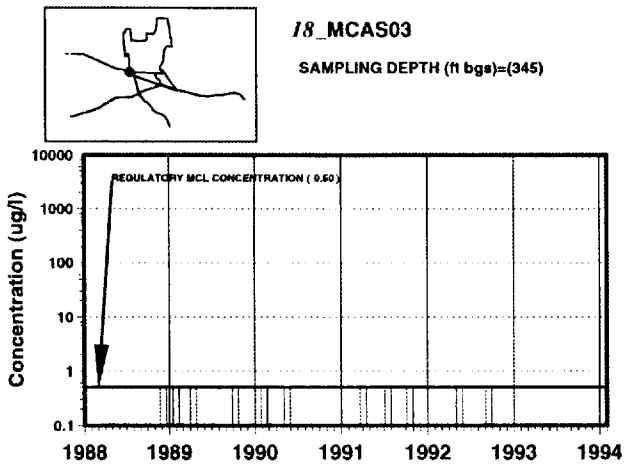
## CARBON TETRACHLORIDE Concentration

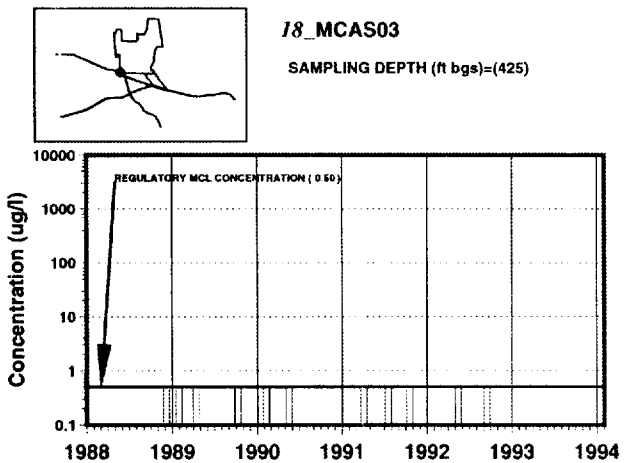
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

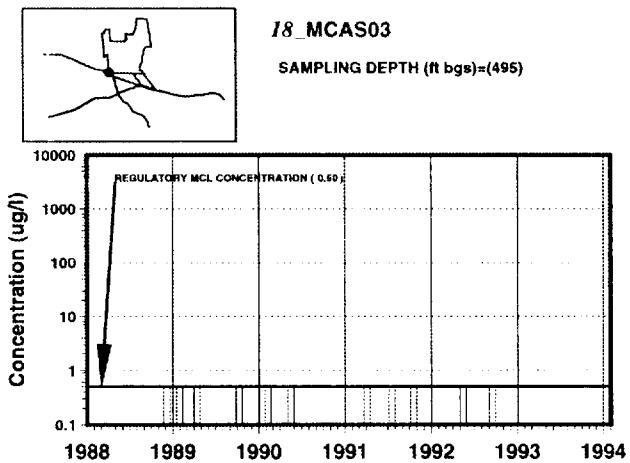


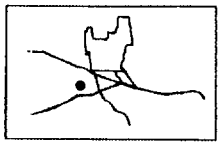




Fri Apr 30 23:25:01 1993

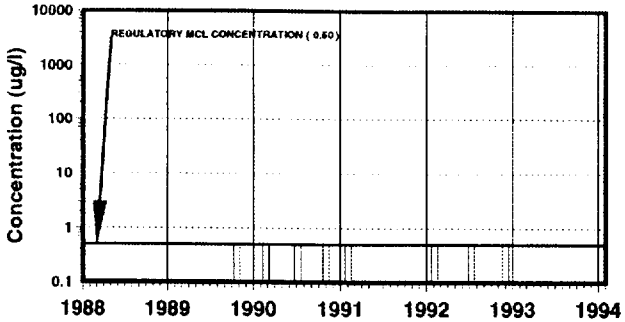
# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## CARBON TETRACHLORIDE Concentration

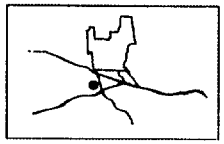
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

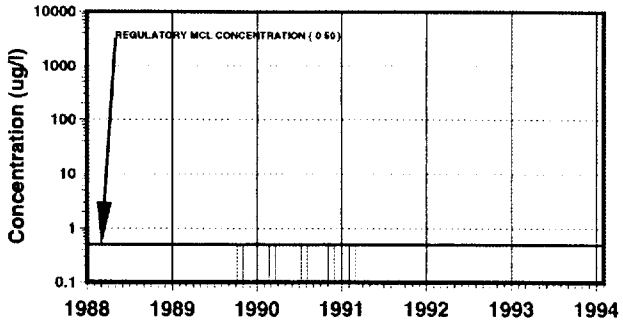
SAMPLING DEPTH (ft bgs)=(181-238)

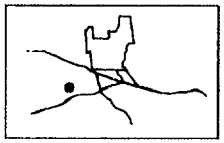


*18*_MCAS05

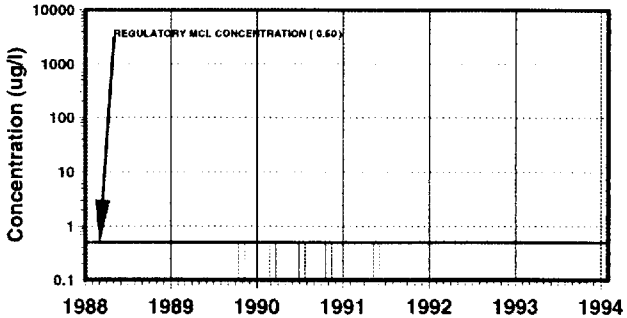
SAMPLING DEPTH (ft bgs)=(142-148)

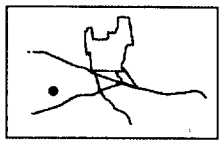


*18*_MCAS06

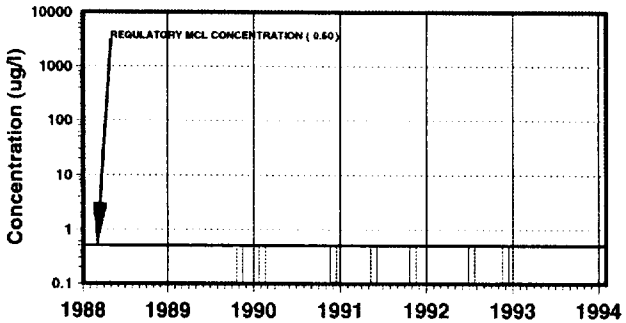
SAMPLING DEPTH (ft bgs)=(167-222)

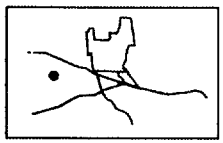


*18*_MCAS08

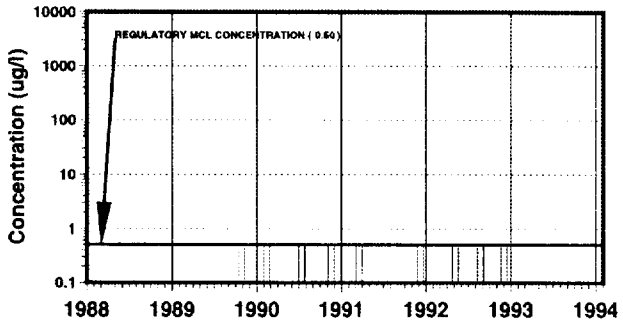
SAMPLING DEPTH (ft bgs)=(392-410)

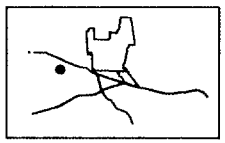


*18*_MCAS09

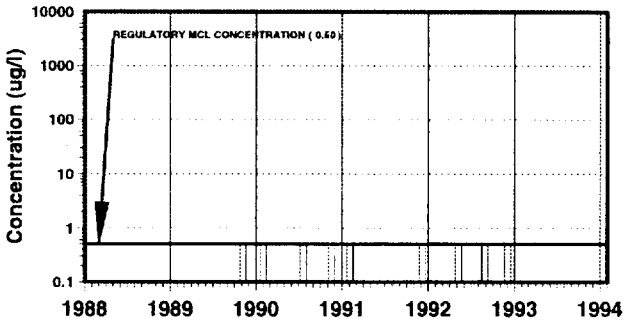
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

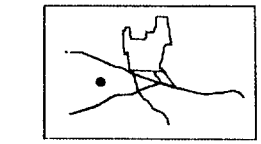
SAMPLING DEPTH (ft bgs)=(355-375)




*Fri Apr 30 23:26:22 1993*

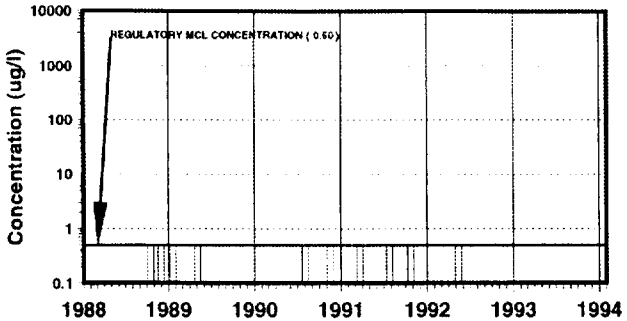
## CARBON TETRACHLORIDE Concentration

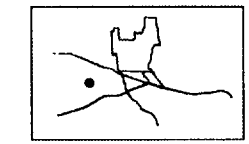
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

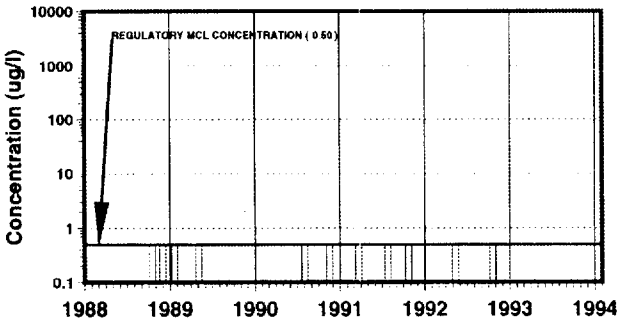
SAMPLING DEPTH (ft bgs)=(94)

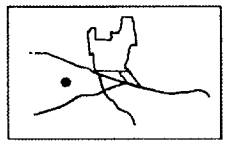


18_MCAS07

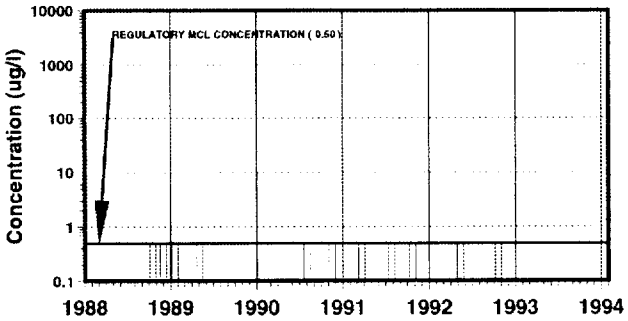
SAMPLING DEPTH (ft bgs)=(194)

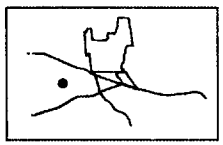


18_MCAS07

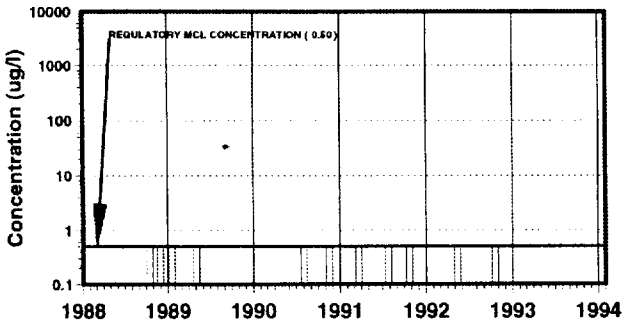
SAMPLING DEPTH (ft bgs)=(354)

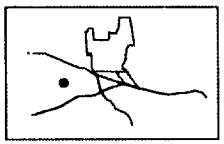


18_MCAS07

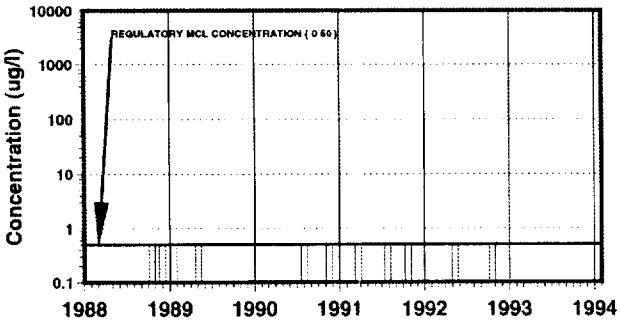
SAMPLING DEPTH (ft bgs)=(444)

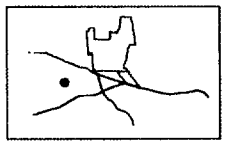


18_MCAS07

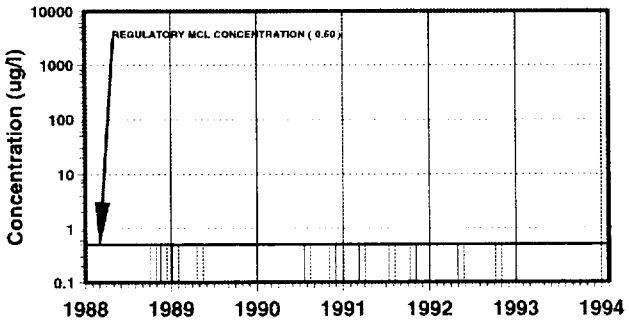
SAMPLING DEPTH (ft bgs)=(514)

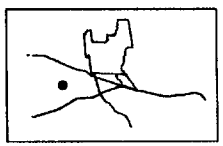


18_MCAS07

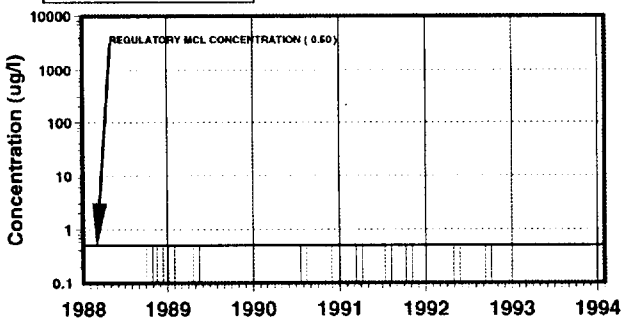
SAMPLING DEPTH (ft bgs)=(804)

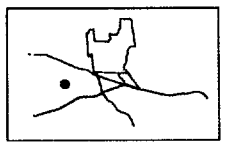


18_MCAS07

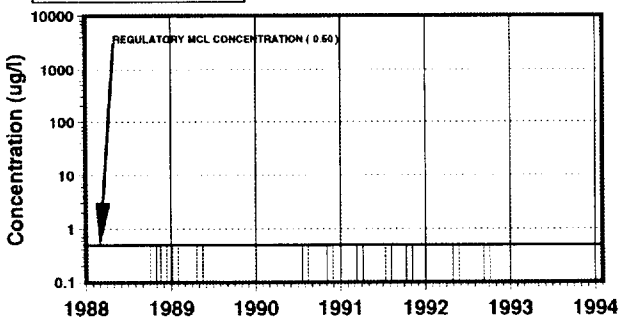
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 16:43:37 1993

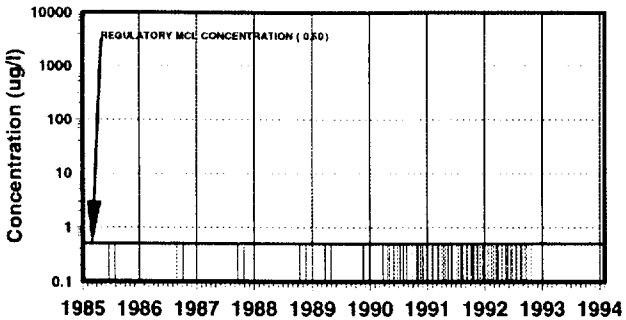
## *CARBON TETRACHLORIDE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

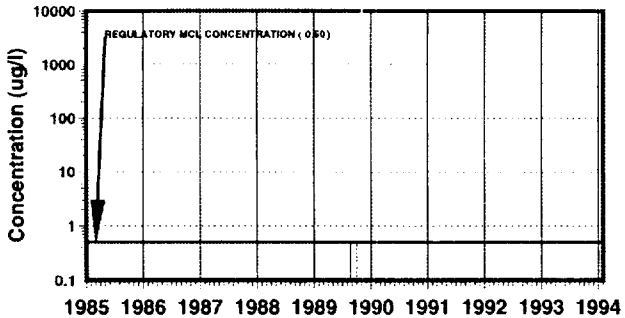
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(370-890)



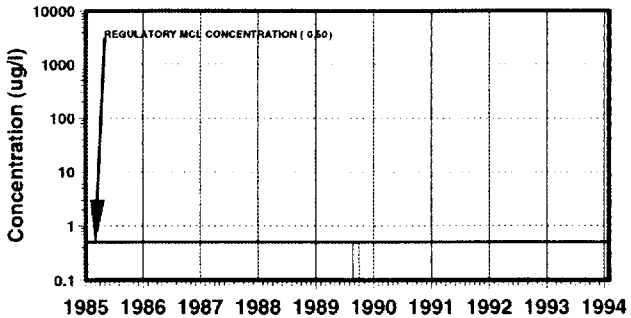
### *18*_RW3

SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

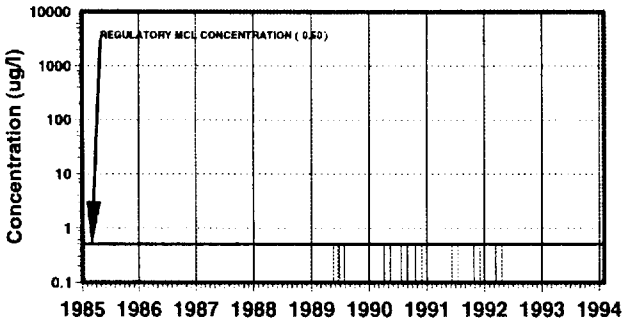
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

*NO X,Y DATA*

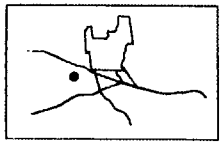
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 16:45:22 1993*

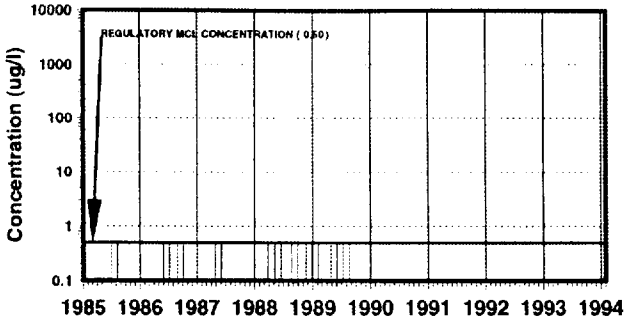
## CARBON TETRACHLORIDE Concentration

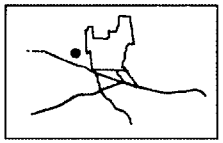
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

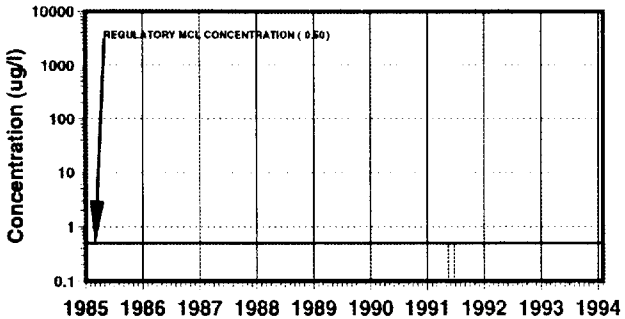
SAMPLING DEPTH (ft bgs)=(263-1503)

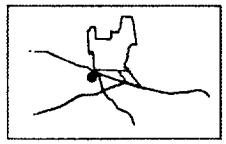


### 18_TIC037

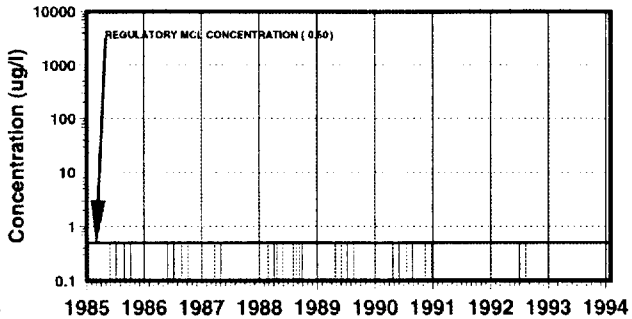
SAMPLING DEPTH (ft bgs)=(255-1560)

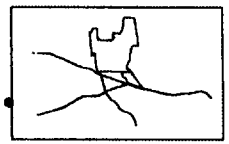


### 18_TIC047

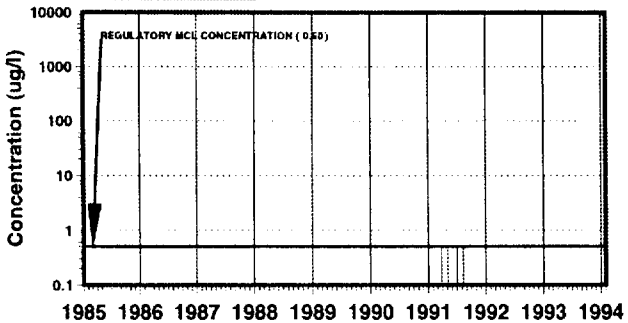
SAMPLING DEPTH (ft bgs)=(268-1107)

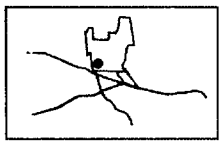


### 18_TIC051

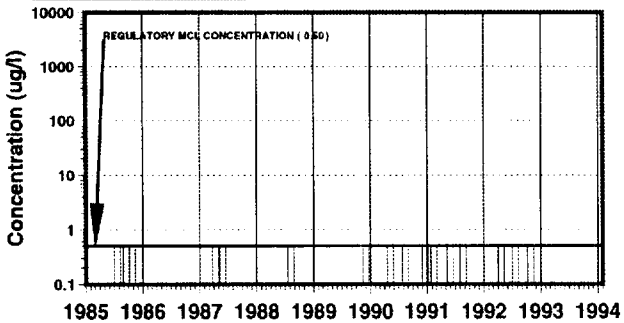
SAMPLING DEPTH (ft bgs)=(220-740)

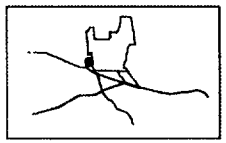


### 18_TIC055

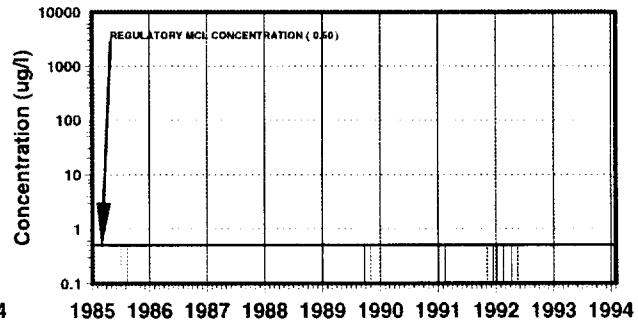
SAMPLING DEPTH (ft bgs)=(496)



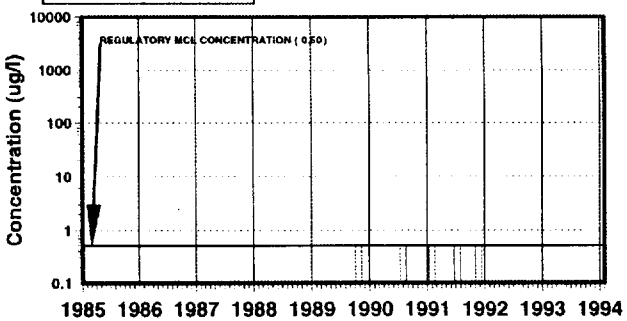
### 18_TIC056

SAMPLING DEPTH (ft bgs)=(336-647)



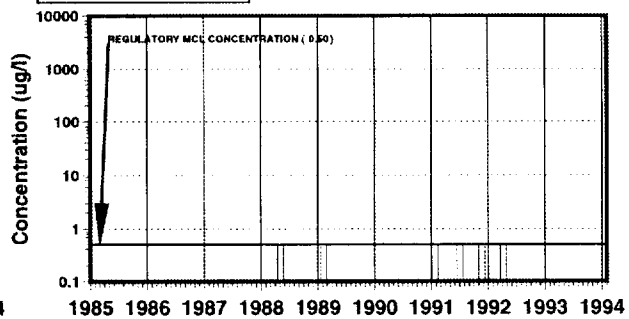
### 18_TIC061

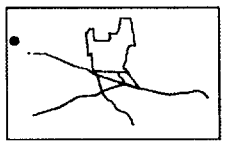
SAMPLING DEPTH (ft bgs)=(248-694)



### 18_TIC068

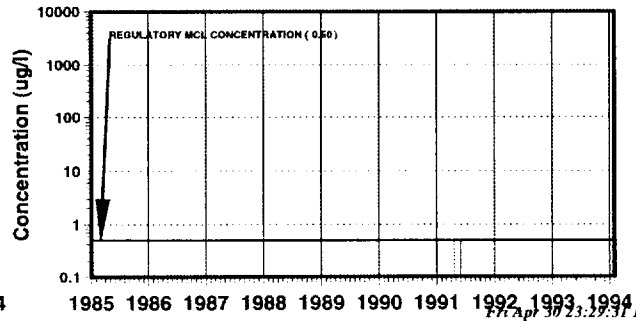
SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)

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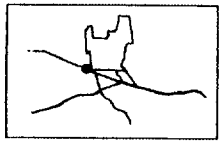
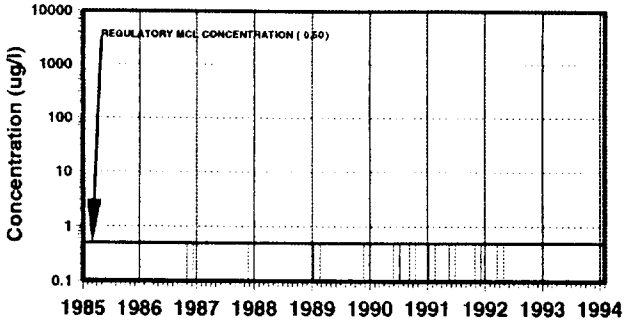
# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## CARBON TETRACHLORIDE Concentration

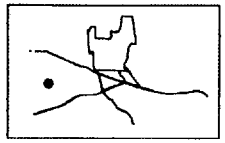
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



*18*_TIC074

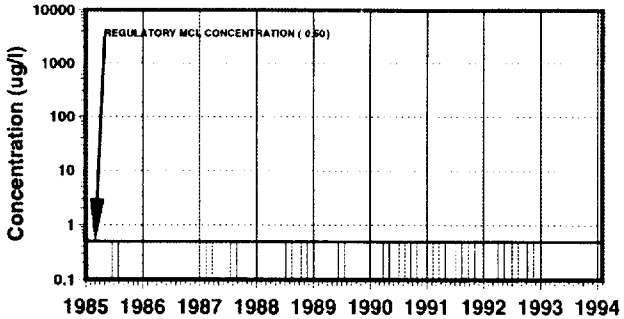
SAMPLING DEPTH (ft bgs)=(210-280)

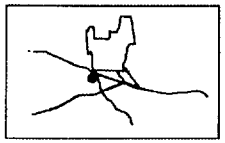


*18*_TIC078

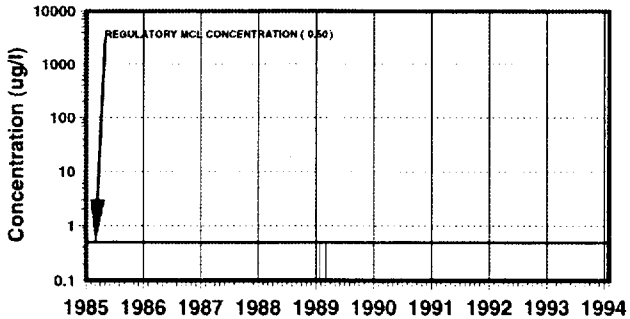
SAMPLING DEPTH (ft bgs)=(410-690)

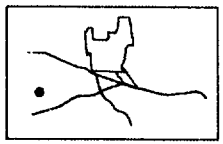


*18*_TIC083

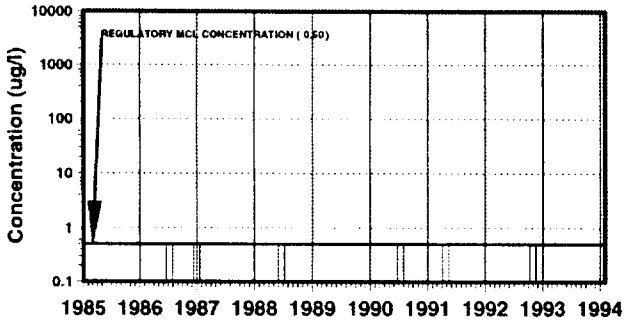
SAMPLING DEPTH (ft bgs)=(261-402)

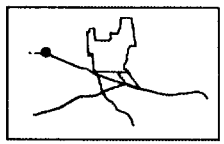


*18*_TIC106

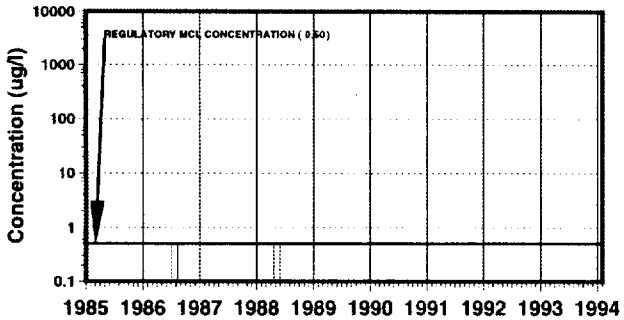
SAMPLING DEPTH (ft bgs)=(405-715)

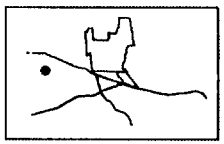


*18*_TIC107

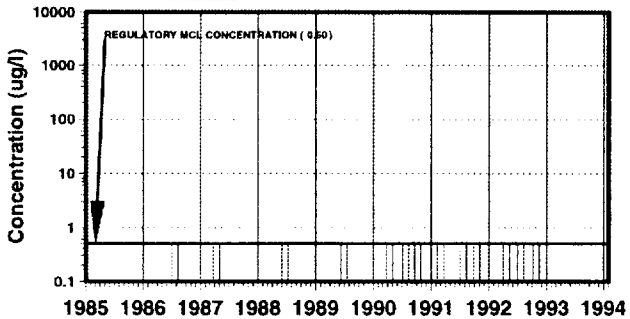
SAMPLING DEPTH (ft bgs)=(230-980)

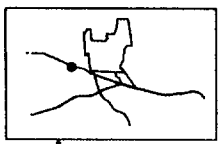


*18*_TIC108

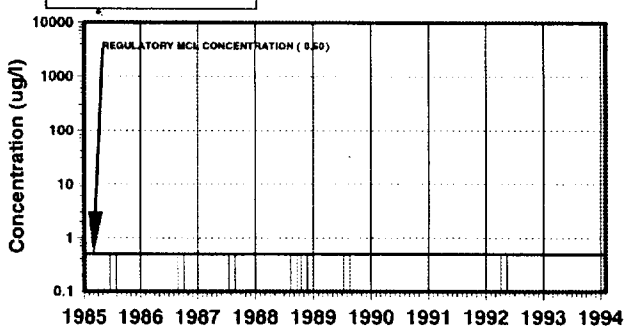
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



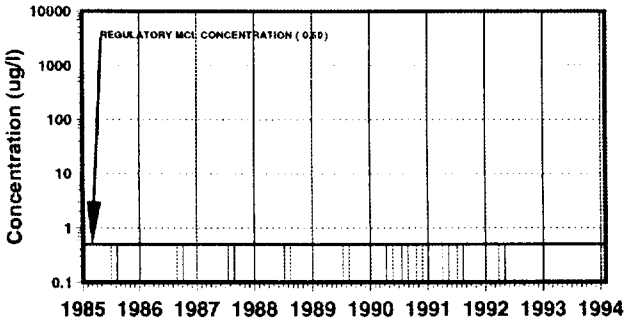

*Fri Apr 30 23:31:26 1993*

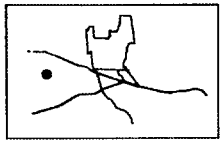
## CARBON TETRACHLORIDE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

### 18_TIC111

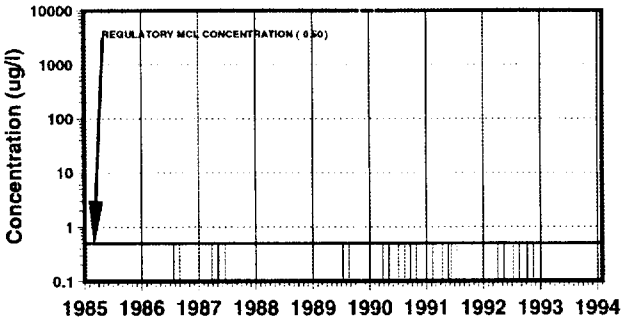
SAMPLING DEPTH (ft bgs)=(750)

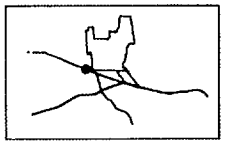


### 18_TIC113

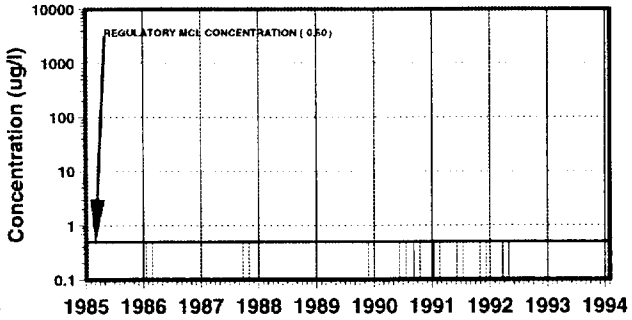
SAMPLING DEPTH (ft bgs)=(280-1080)

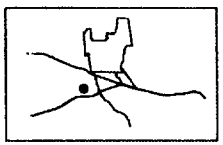


### 18_TIC117

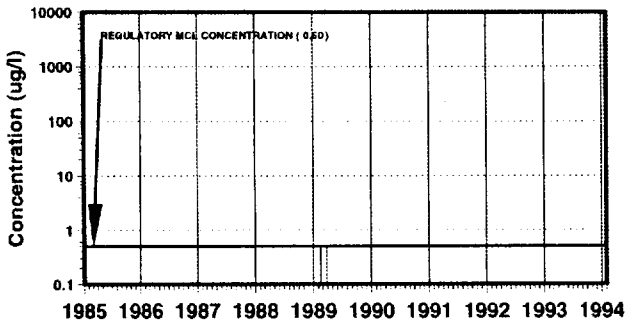
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

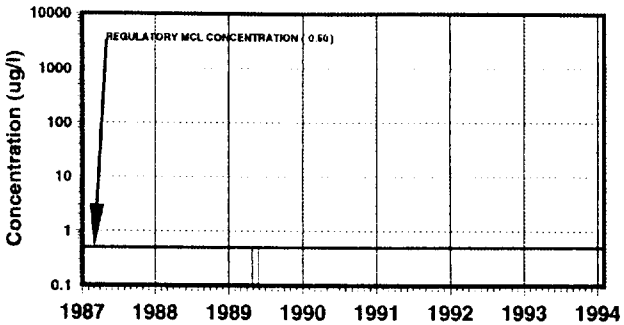
SAMPLING DEPTH (ft bgs)=(100)



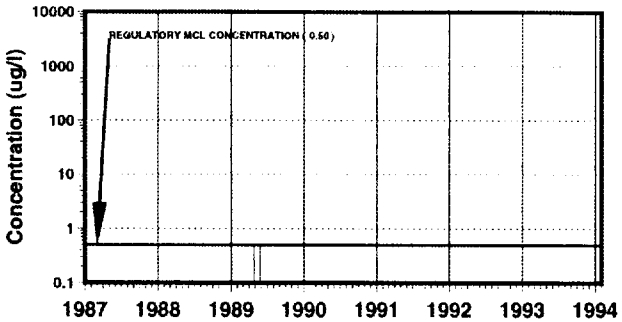
## *CARBON TETRACHLORIDE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

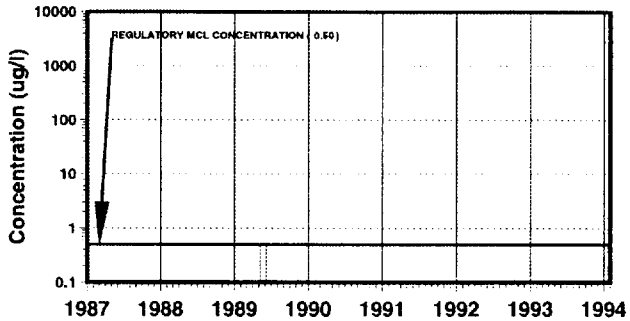
*18*_CN2
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(75-95)



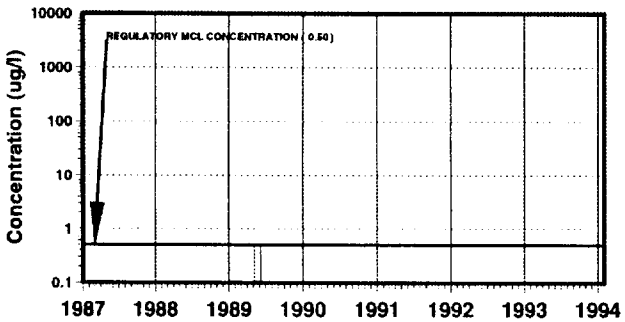

*18*_CN5
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(70-90)



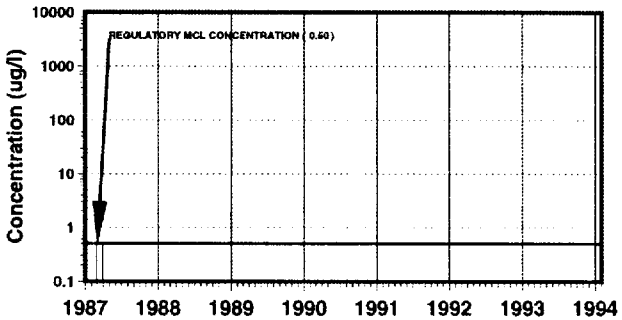

*18*_CN12
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(60-80)

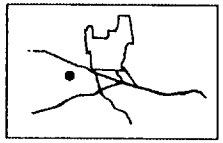



*18*_WPMW1
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(75-95)



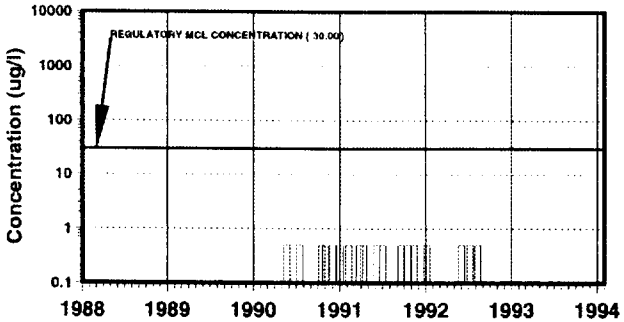
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

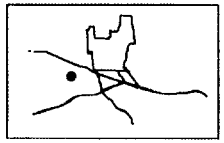
*CHLOROBENZENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

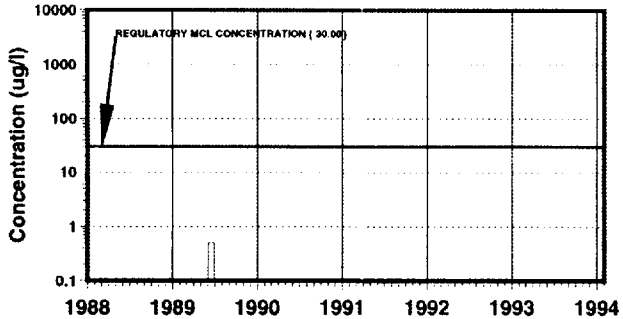
SAMPLING DEPTH (ft bgs)=(220-490)

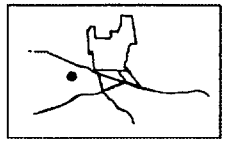


*18*_ET1

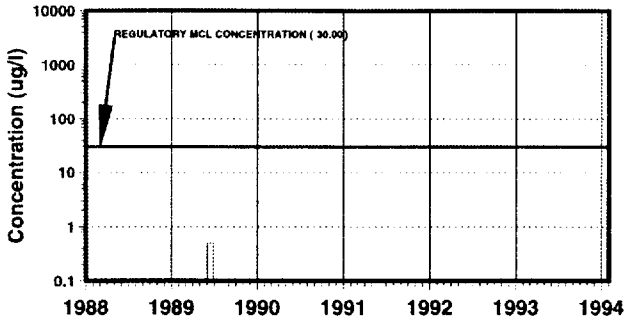
SAMPLING DEPTH (ft bgs)=(200)

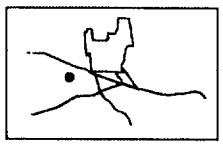


*18*_ET1

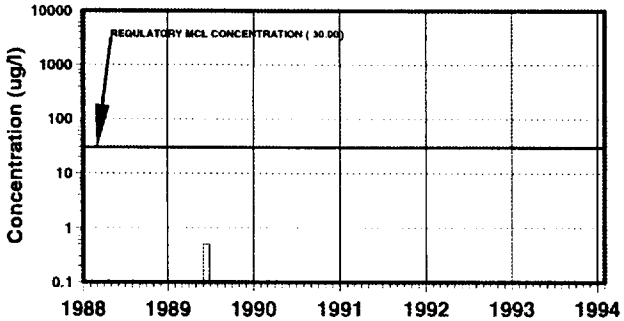
SAMPLING DEPTH (ft bgs)=(300)

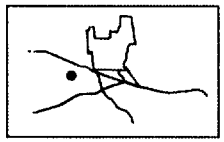


*18*_ET1

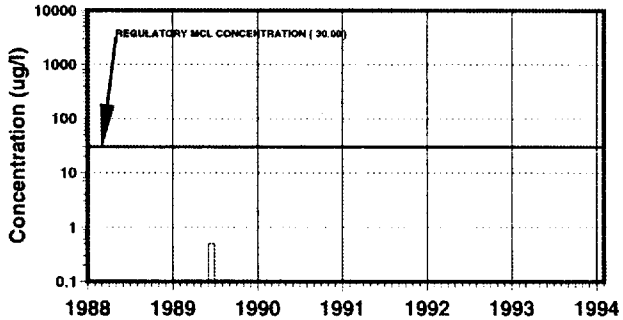
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

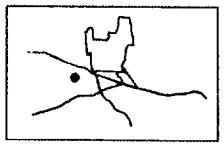
SAMPLING DEPTH (ft bgs)=(440)




*Fri Apr 30 23:07:08 1993*

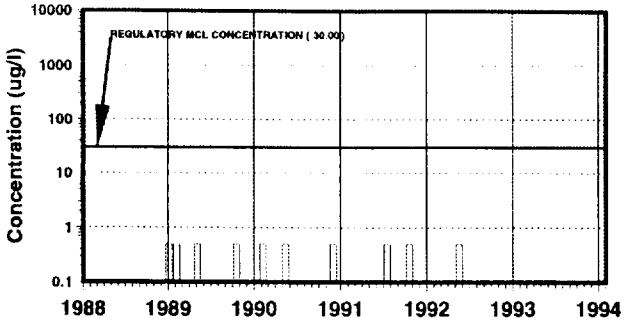
## CHLOROBENZENE Concentration

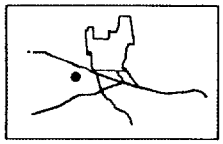
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

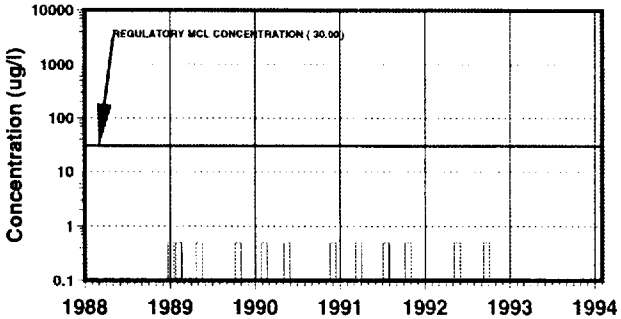
SAMPLING DEPTH (ft bgs)=(65)

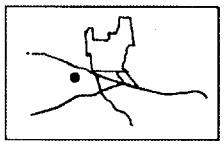


18_MCAS01

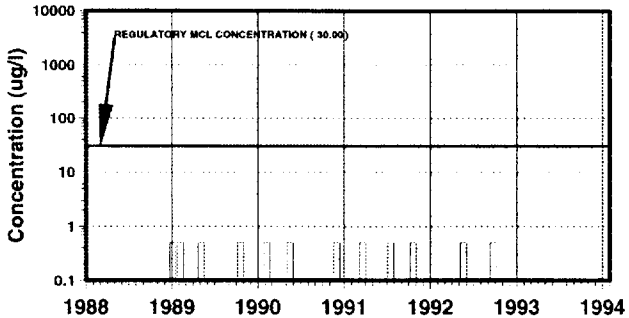
SAMPLING DEPTH (ft bgs)=(155)

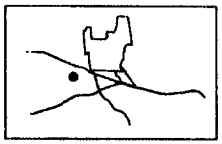


18_MCAS01

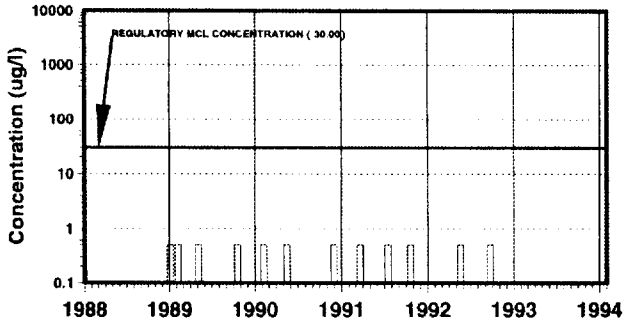
SAMPLING DEPTH (ft bgs)=(215)

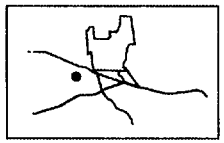


18_MCAS01

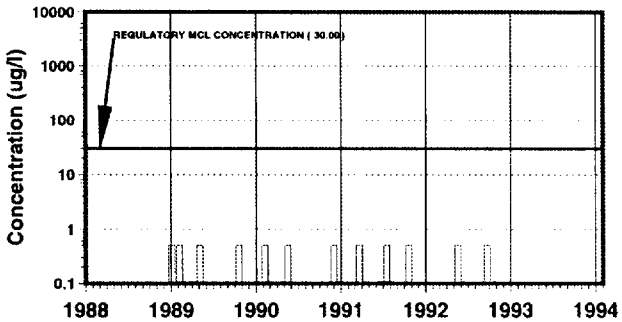
SAMPLING DEPTH (ft bgs)=(275)

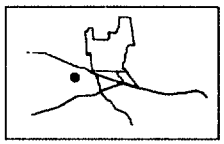


18_MCAS01

SAMPLING DEPTH (ft bgs)=(335)



18_MCAS01

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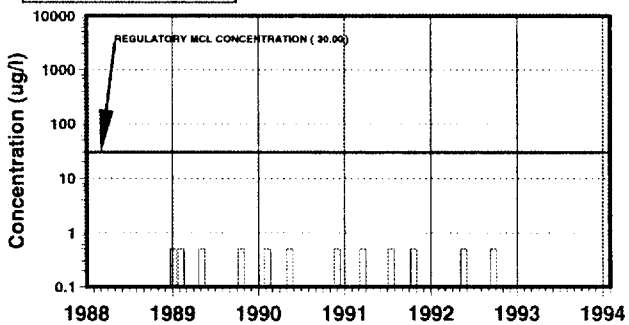


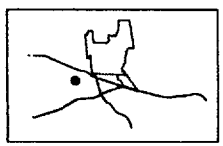

18_MCAS01

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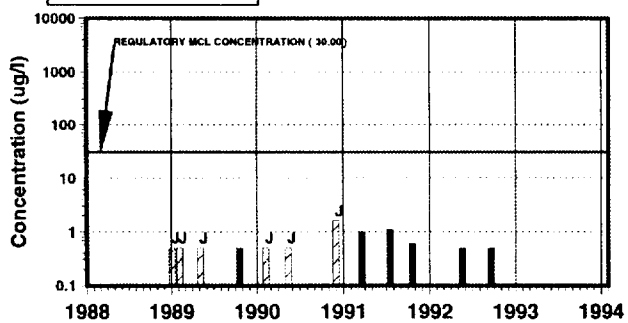


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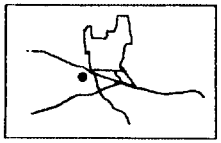
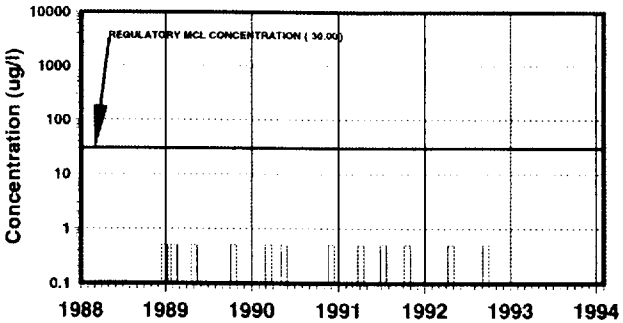
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

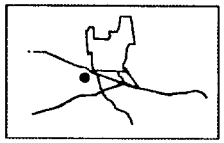
*CHLOROBENZENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(45)



*18*_MCAS02

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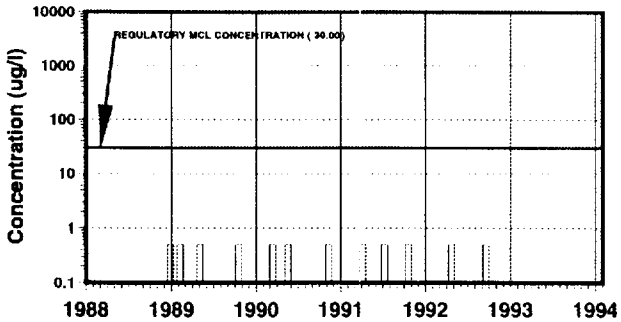


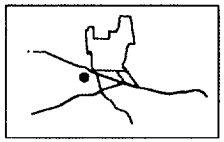

*18*_MCAS02

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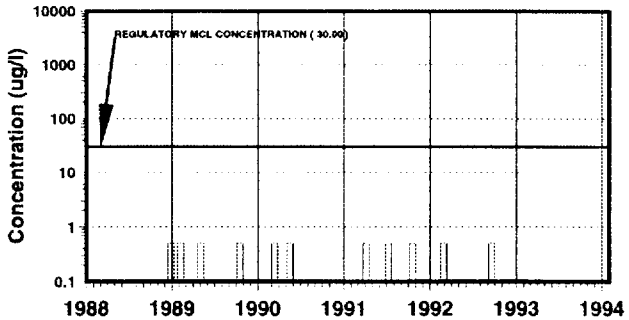


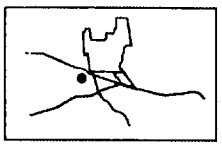

*18*_MCAS02

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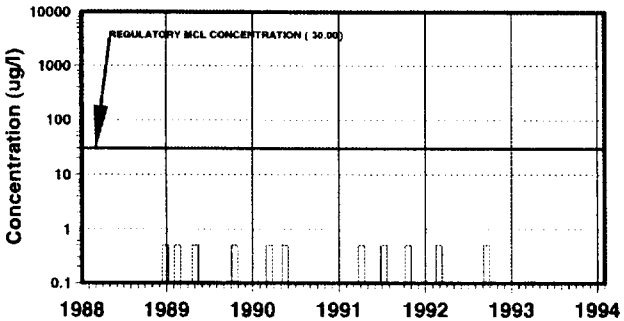
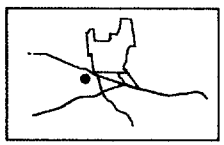
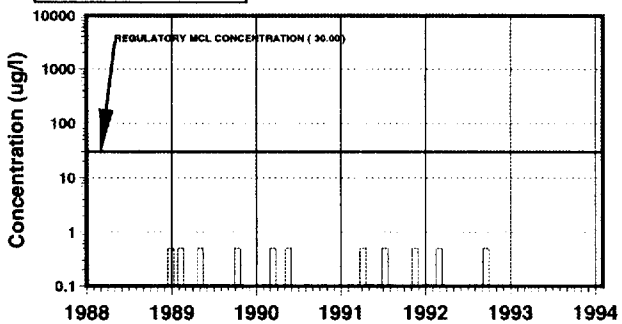
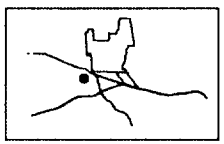


*18*_MCAS02

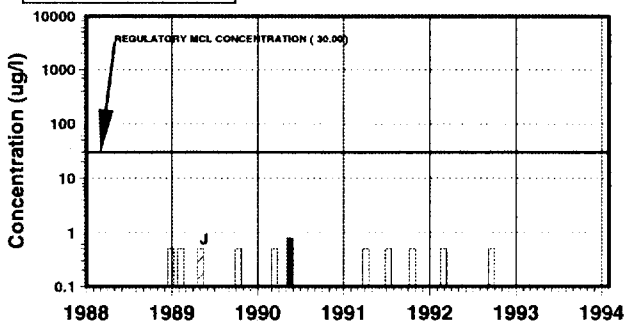
SAMPLING DEPTH (ft bgs)=(425)

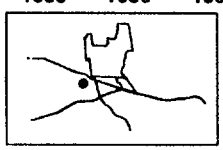


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(495)



*18*_MCAS02

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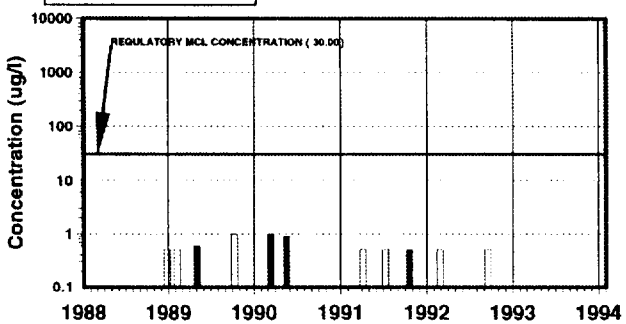


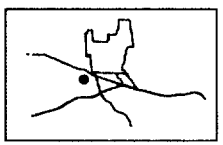

*18*_MCAS02

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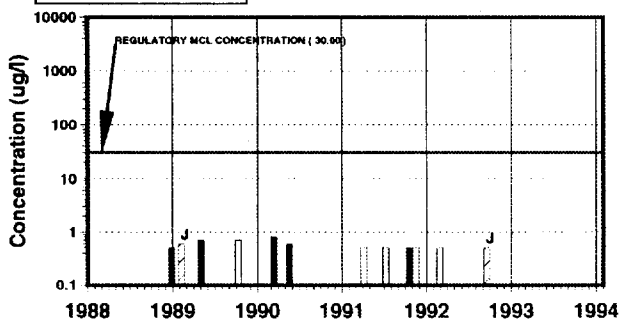


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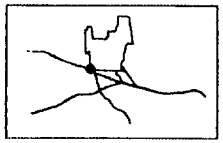
## CHLOROBENZENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS03

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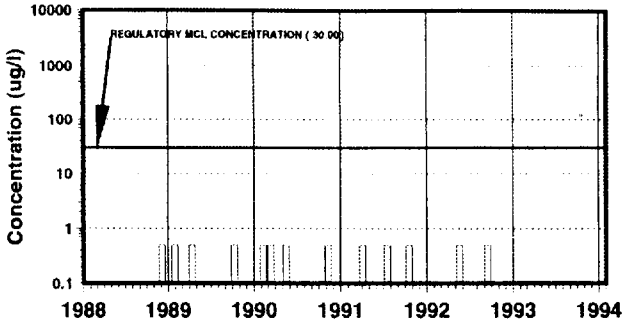
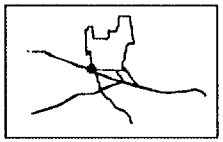
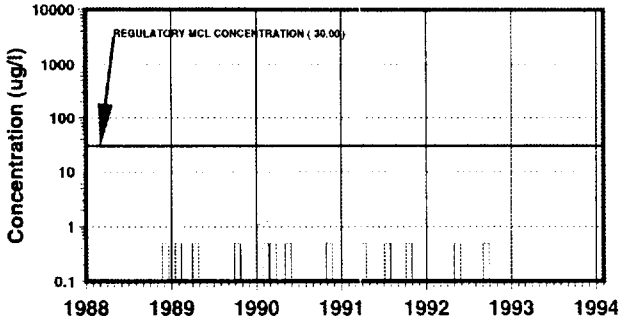
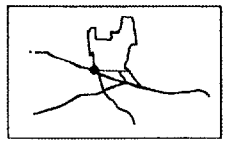


18_MCAS03

SAMPLING DEPTH (ft bgs)=(165)



18_MCAS03

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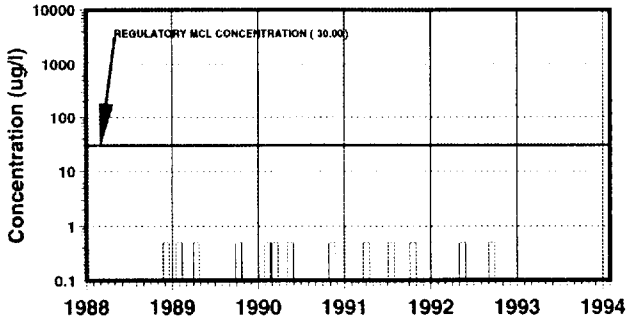


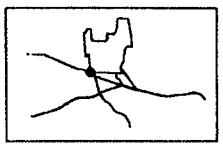

18_MCAS03

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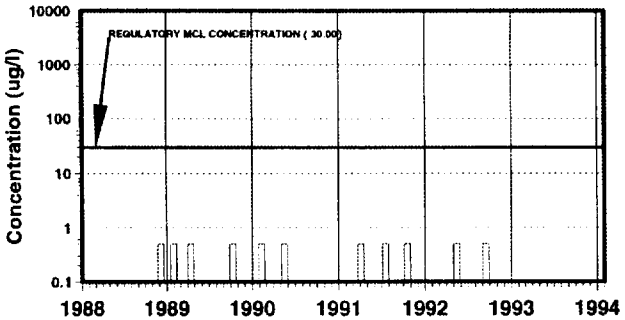
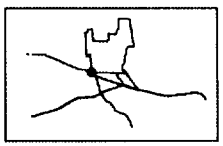
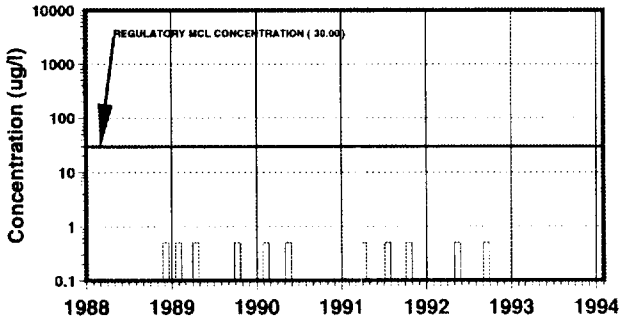
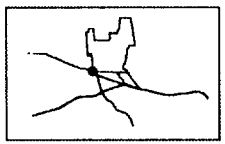


18_MCAS03

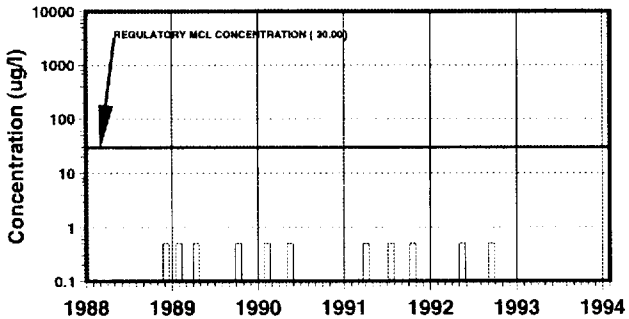
SAMPLING DEPTH (ft bgs)=(425)



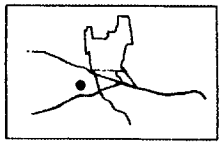
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



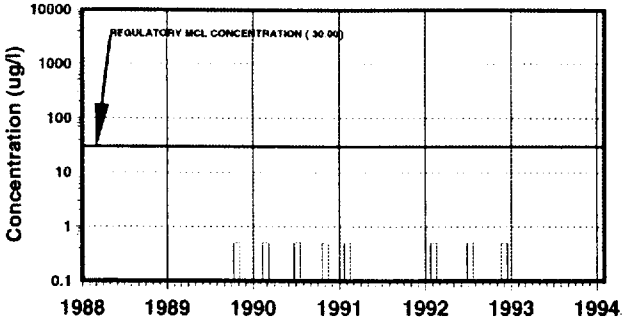
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

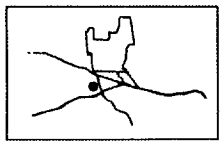
*CHLOROBENZENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

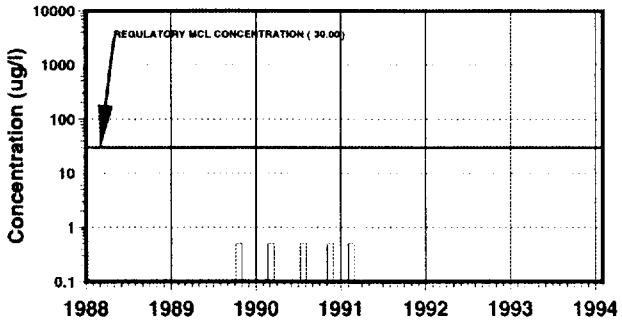
SAMPLING DEPTH (ft bgs)=(181-238)

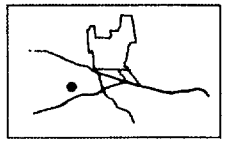


*18*_MCAS05

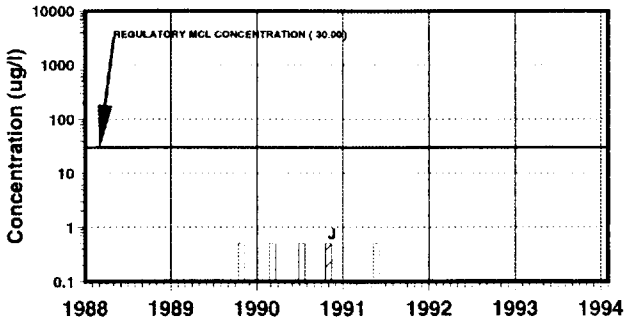
SAMPLING DEPTH (ft bgs)=(142-148)

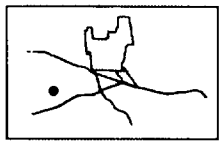


*18*_MCAS06

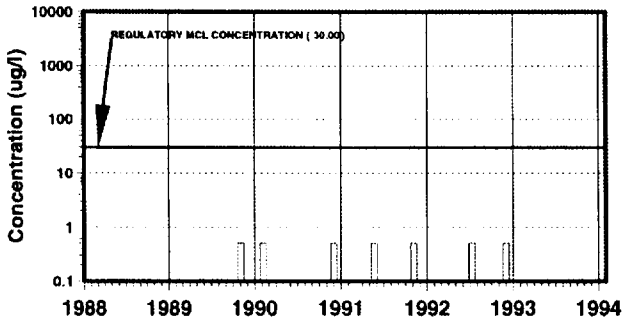
SAMPLING DEPTH (ft bgs)=(167-222)

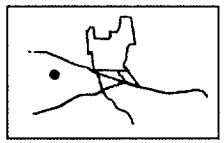


*18*_MCAS08

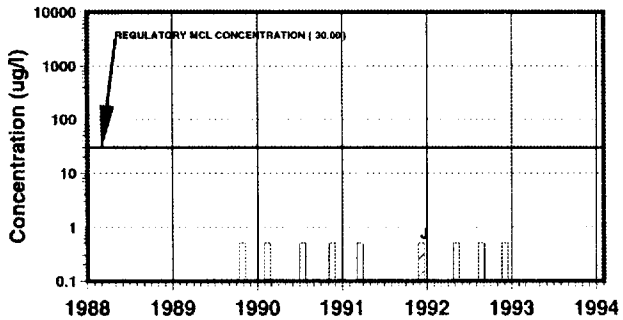
SAMPLING DEPTH (ft bgs)=(392-410)

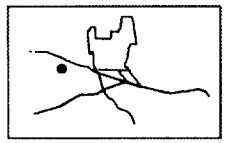


*18*_MCAS09

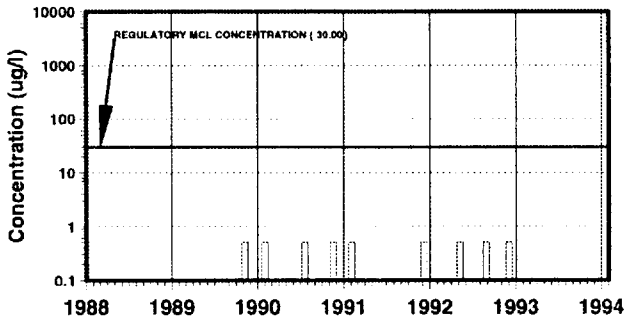
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

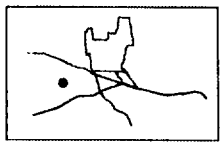
SAMPLING DEPTH (ft bgs)=(355-375)




*Fri Apr 30 23:12:55 1993*

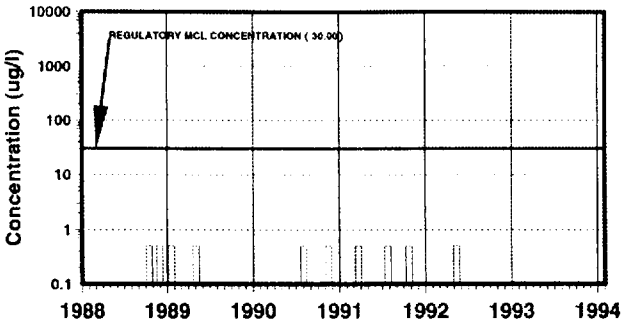
## CHLOROBENZENE Concentration

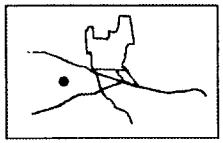
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

SAMPLING DEPTH (ft bgs)=(94)



18_MCAS07

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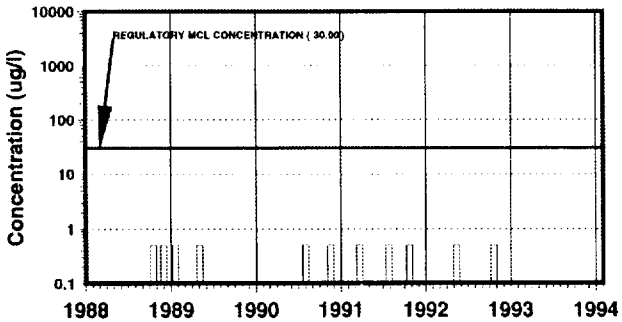


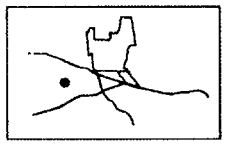

18_MCAS07

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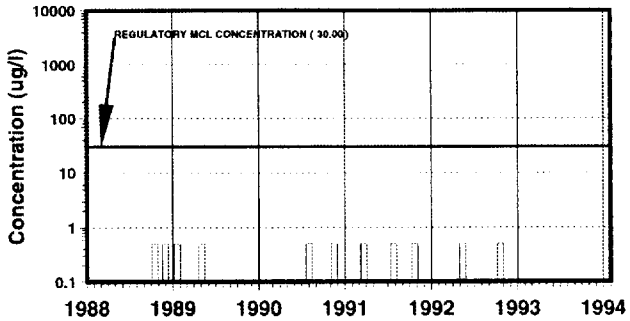
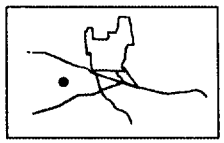
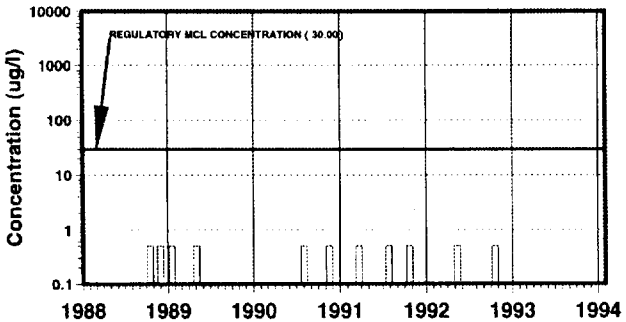
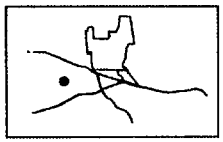


18_MCAS07

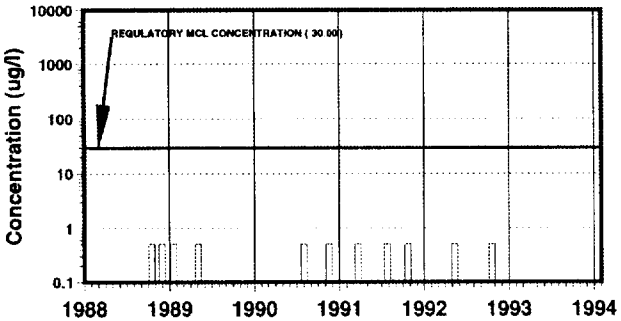
SAMPLING DEPTH (ft bgs)=(444)

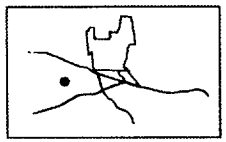


18_MCAS07

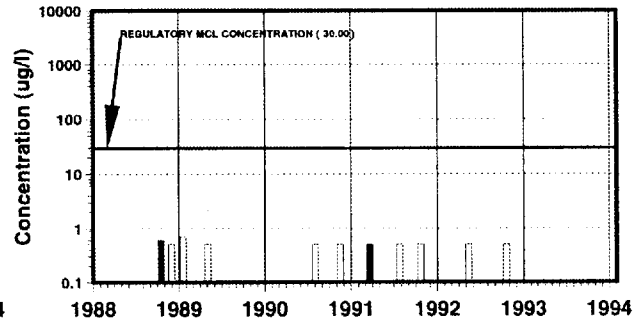
SAMPLING DEPTH (ft bgs)=(514)

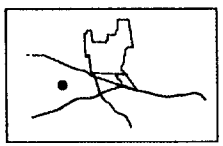


18_MCAS07

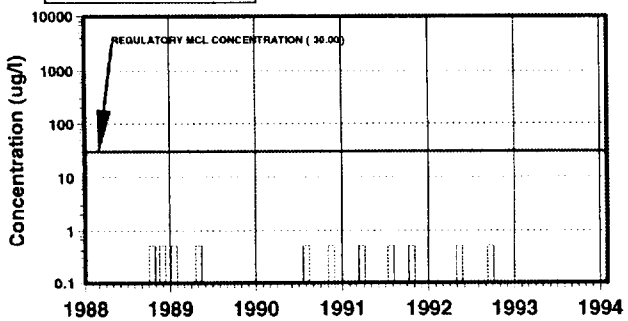
SAMPLING DEPTH (ft bgs)=(804)

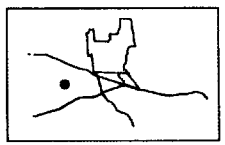


18_MCAS07

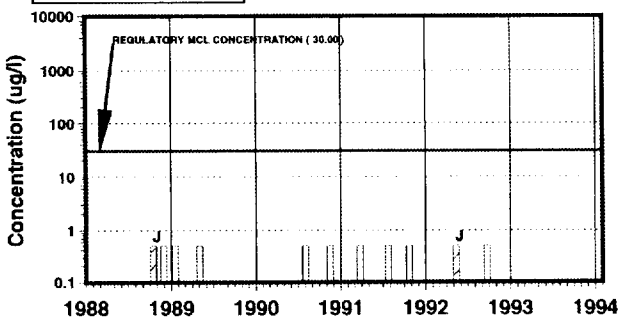
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 16:48:49 1993

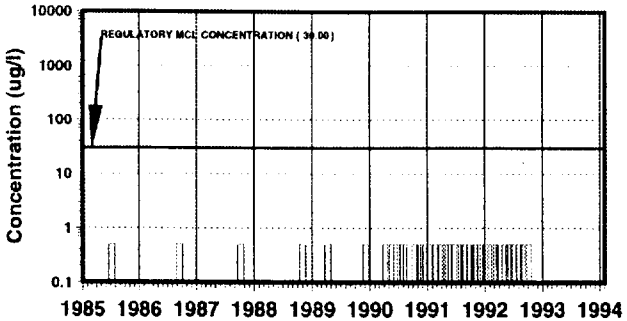
## *CHLOROBENZENE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

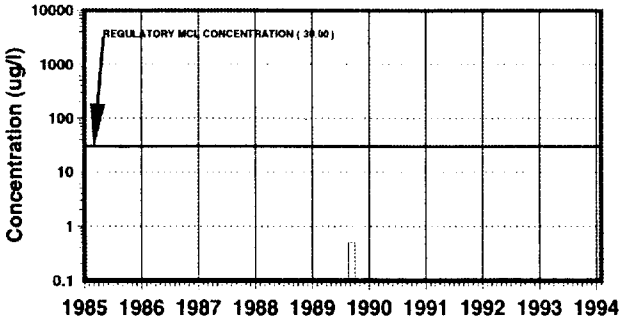
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(370-890)



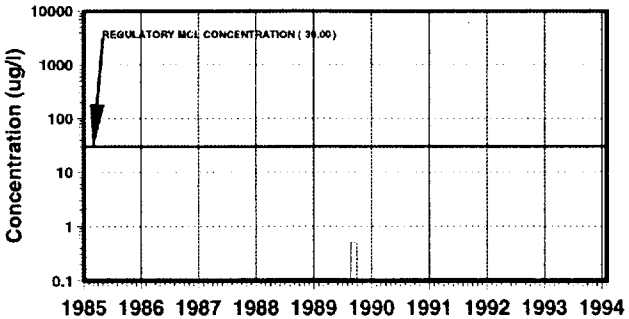
### *18*_RW3

SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

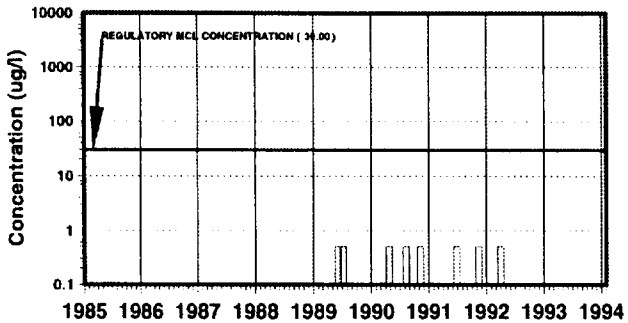
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

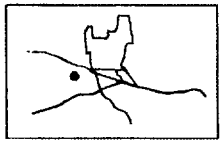
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(210)



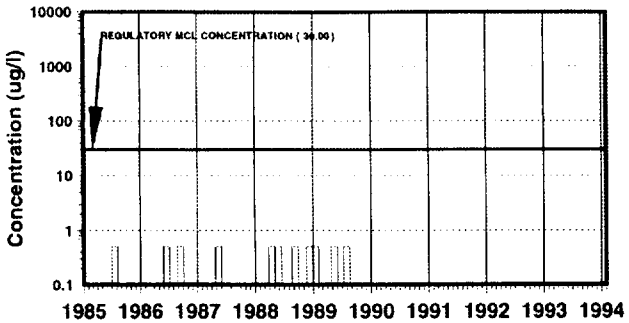
## CHLOROBENZENE Concentration

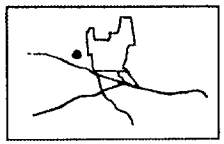
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

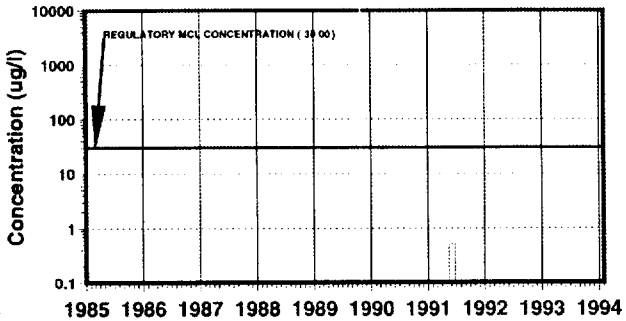
SAMPLING DEPTH (ft bgs)=(263-1503)

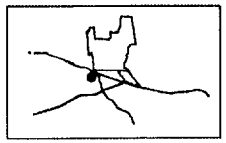


### 18_TIC037

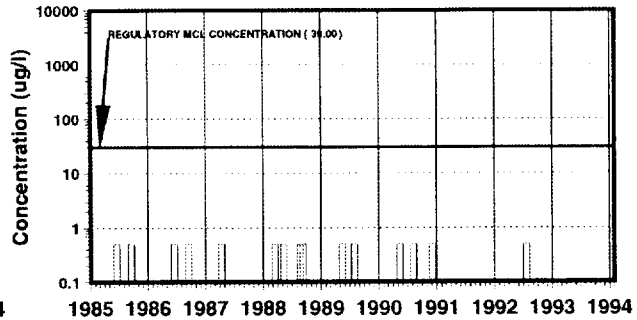
SAMPLING DEPTH (ft bgs)=(255-1560)

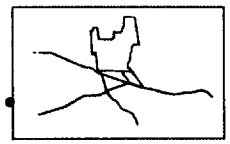


### 18_TIC047

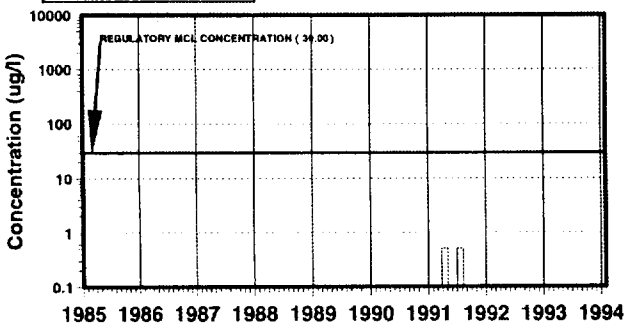
SAMPLING DEPTH (ft bgs)=(268-1107)

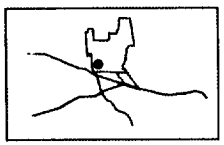


### 18_TIC051

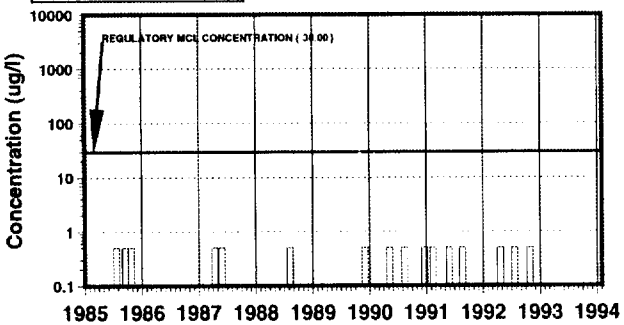
SAMPLING DEPTH (ft bgs)=(220-740)

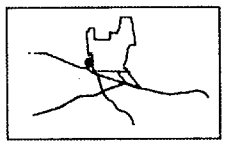


### 18_TIC055

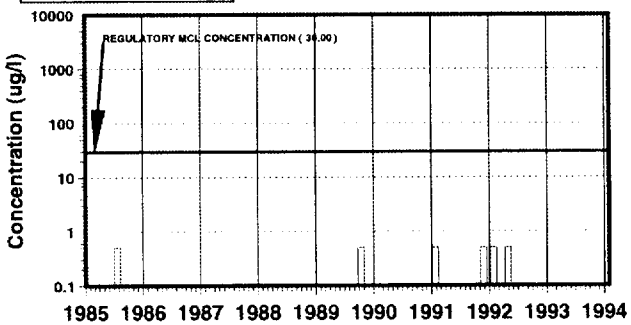
SAMPLING DEPTH (ft bgs)=(496)

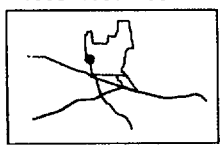


### 18_TIC056

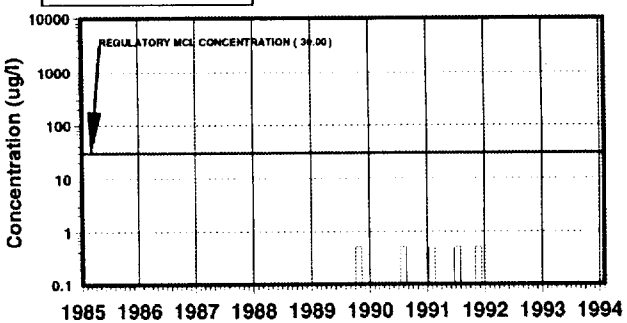
SAMPLING DEPTH (ft bgs)=(336-647)

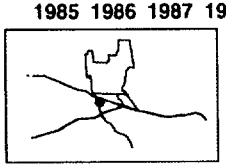


### 18_TIC061

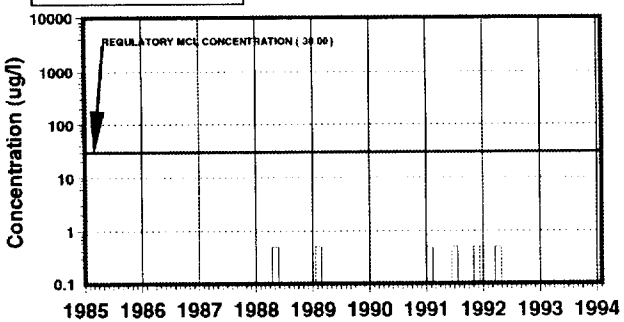
SAMPLING DEPTH (ft bgs)=(248-694)

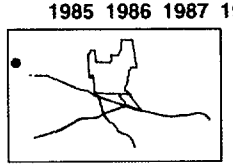


### 18_TIC068

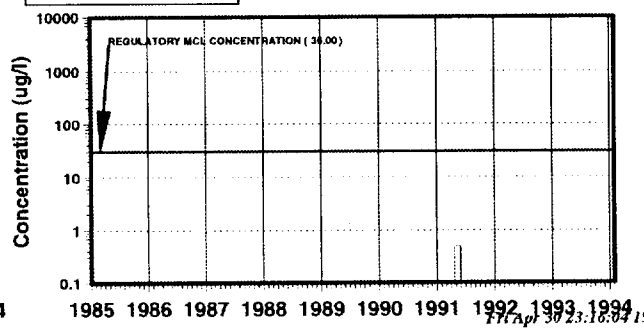
SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

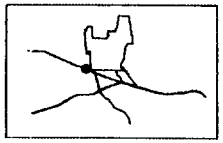
SAMPLING DEPTH (ft bgs)=(274-403)



# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA

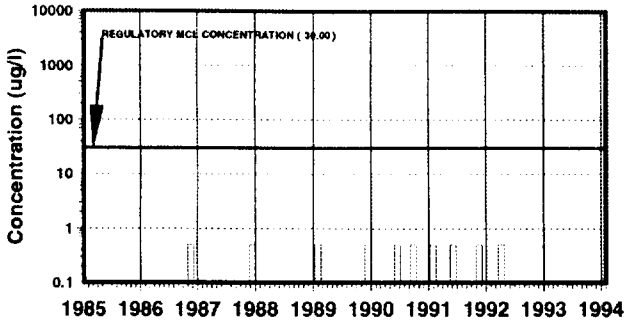
## CHLOROBENZENE Concentration

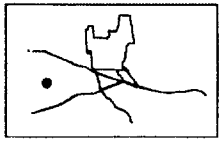
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

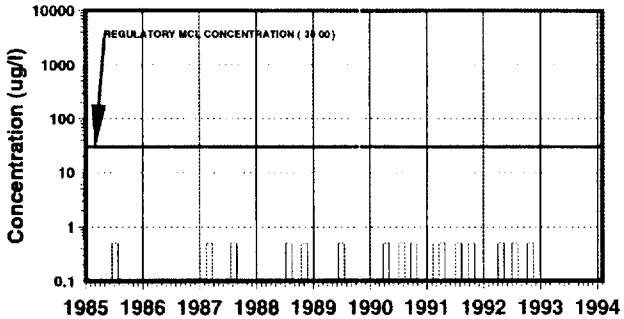
SAMPLING DEPTH (ft bgs)=(210-280)

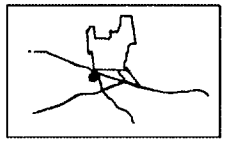


*18*_TIC078

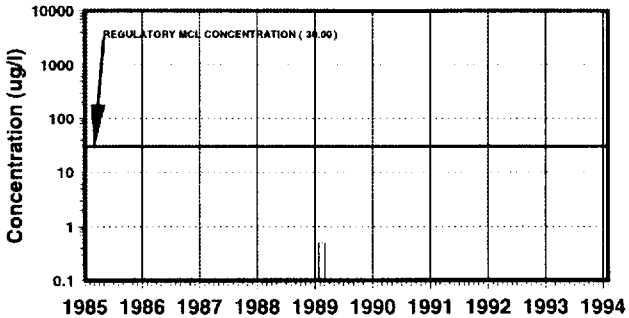
SAMPLING DEPTH (ft bgs)=(410-690)

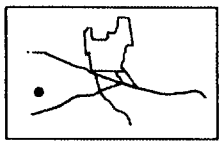


*18*_TIC083

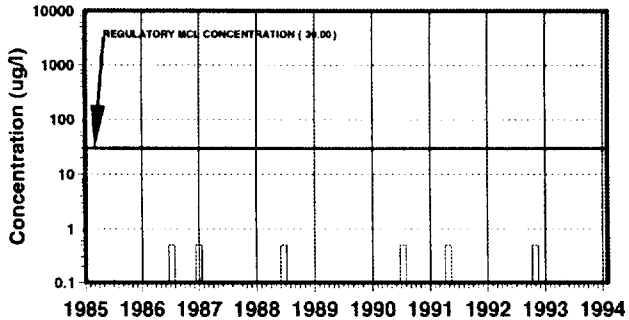
SAMPLING DEPTH (ft bgs)=(261-402)

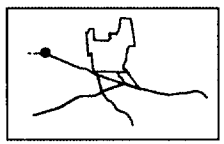


*18*_TIC106

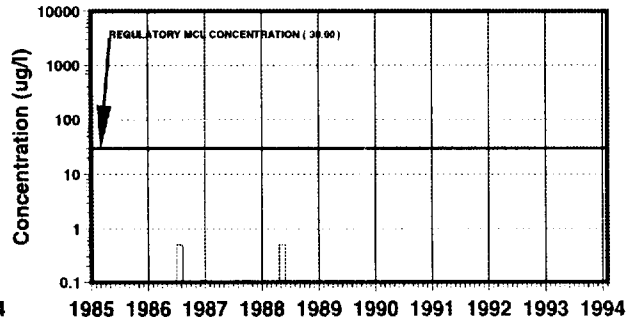
SAMPLING DEPTH (ft bgs)=(405-715)

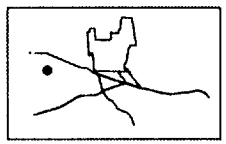


*18*_TIC107

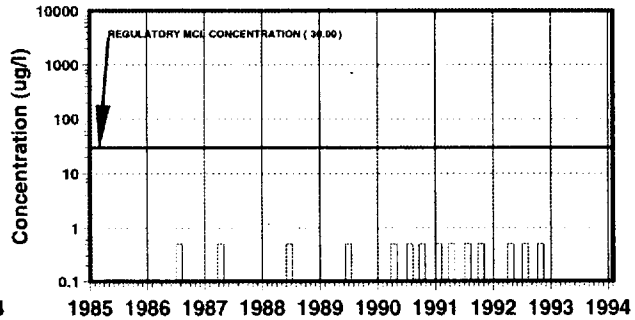
SAMPLING DEPTH (ft bgs)=(230-980)

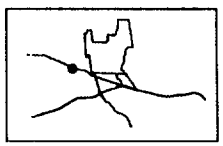


*18*_TIC108

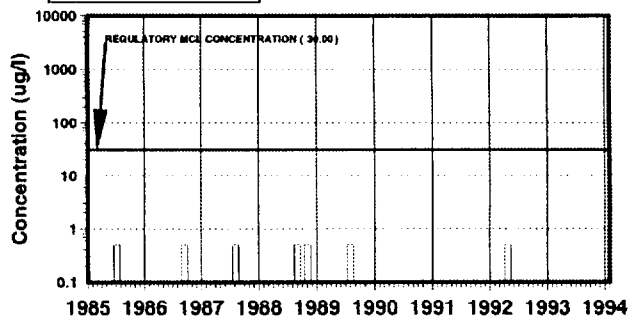
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



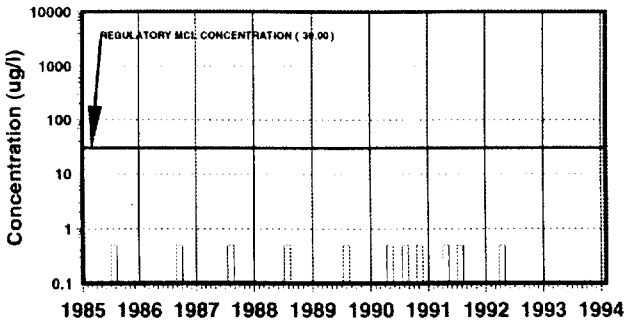

*Fri Apr 30 23:17:59 1993*

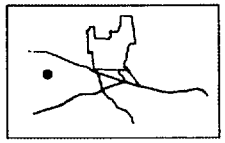
## CHLOROBENZENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

### 18_TIC111

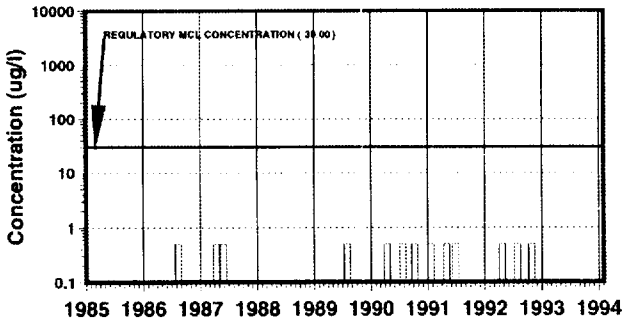
SAMPLING DEPTH (ft bgs)=(750)

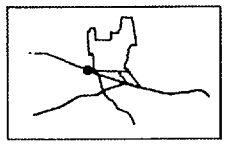


### 18_TIC113

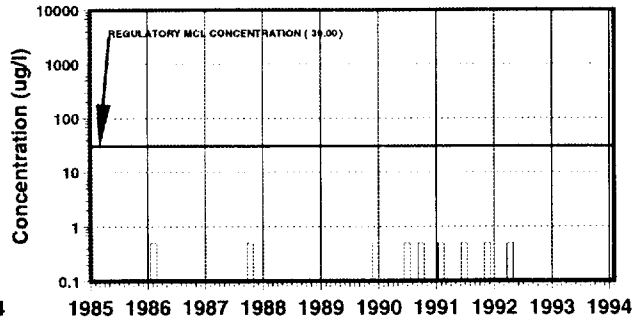
SAMPLING DEPTH (ft bgs)=(280-1080)

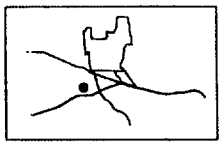


### 18_TIC117

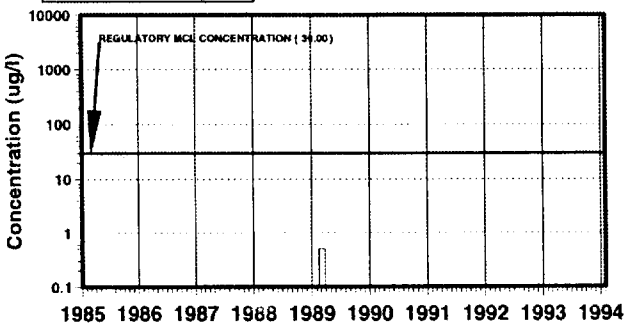
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



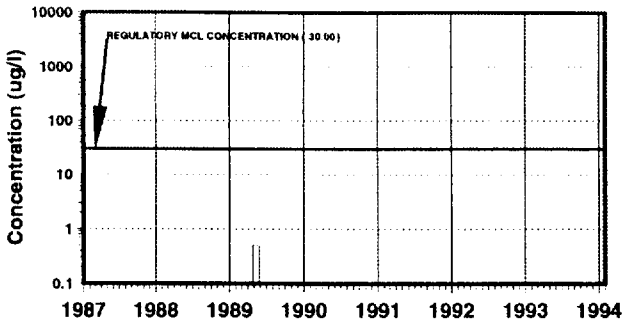
## *CHLOROBENZENE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_CN2

*NO X,Y DATA*

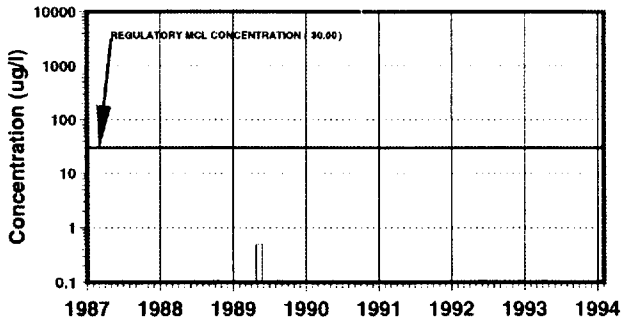
SAMPLING DEPTH (ft bgs)=(75-95)




### *18*_CN5

*NO X,Y DATA*

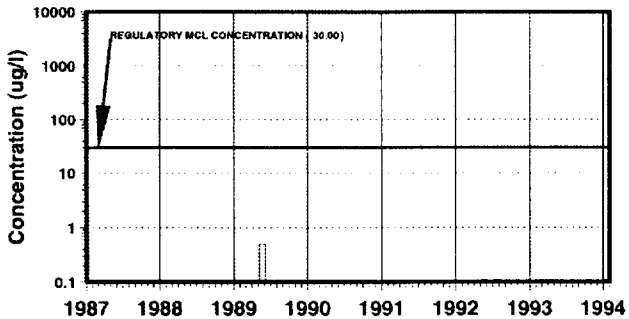
SAMPLING DEPTH (ft bgs)=(70-90)




### *18*_CN12

*NO X,Y DATA*

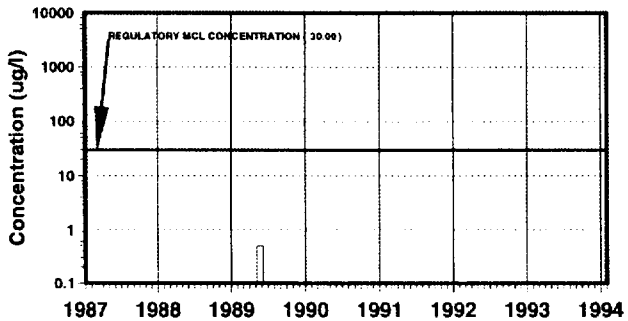
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_CN13

*NO X,Y DATA*

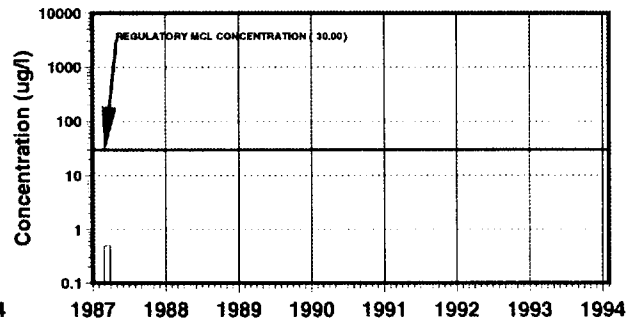
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_WPMW1

*NO X,Y DATA*

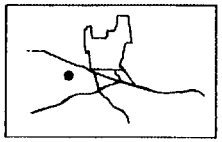
SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 16:52:20 1993*

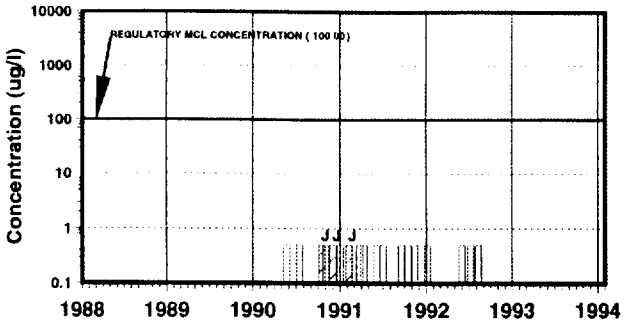
## *CHLOROFORM Concentration*

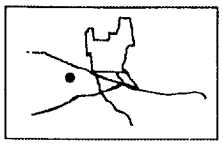
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

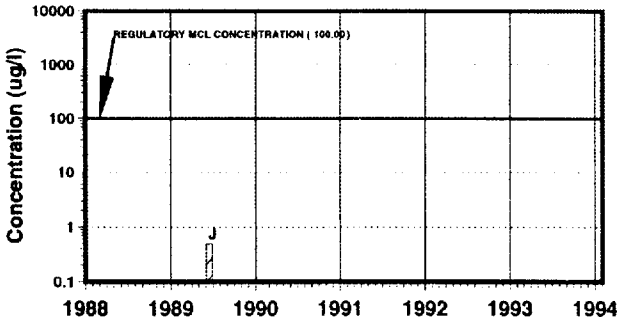
SAMPLING DEPTH (ft bgs)=(220-490)

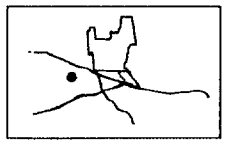


*18*_ET1

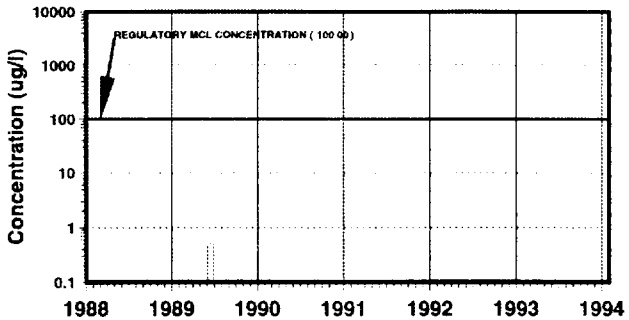
SAMPLING DEPTH (ft bgs)=(200)

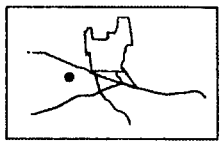


*18*_ET1

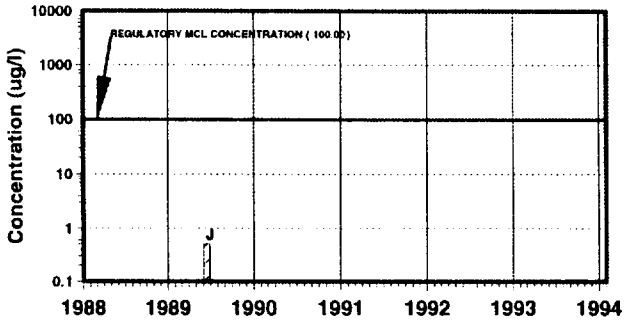
SAMPLING DEPTH (ft bgs)=(300)

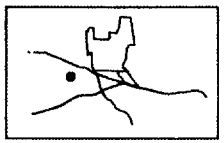


*18*_ET1

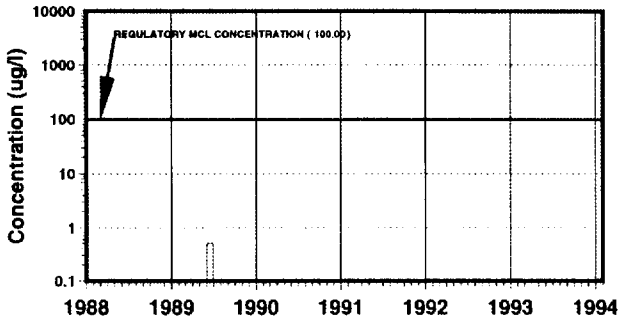
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

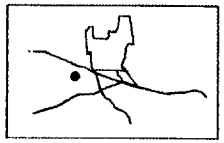
SAMPLING DEPTH (ft bgs)=(440)




*Fri Apr 30 23:46:57 1993*

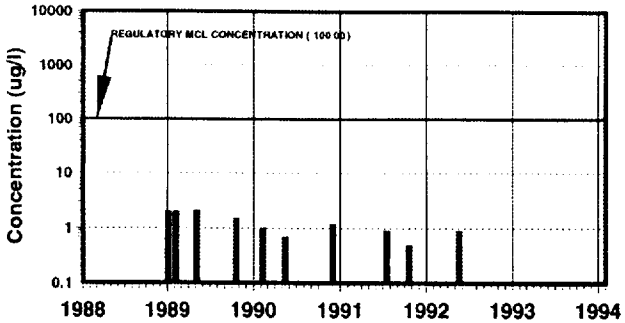
## CHLOROFORM Concentration

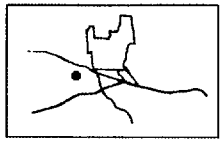
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

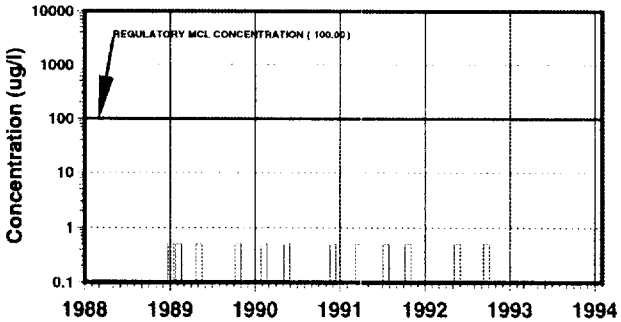
SAMPLING DEPTH (ft bgs)=(65)

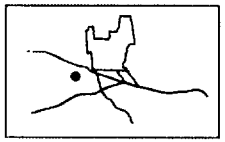


18_MCAS01

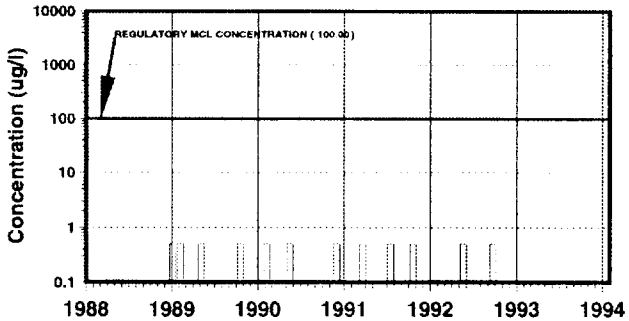
SAMPLING DEPTH (ft bgs)=(155)

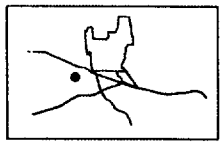


18_MCAS01

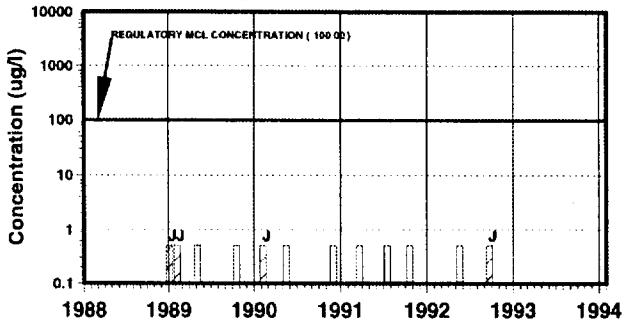
SAMPLING DEPTH (ft bgs)=(215)

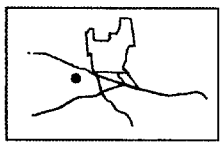


18_MCAS01

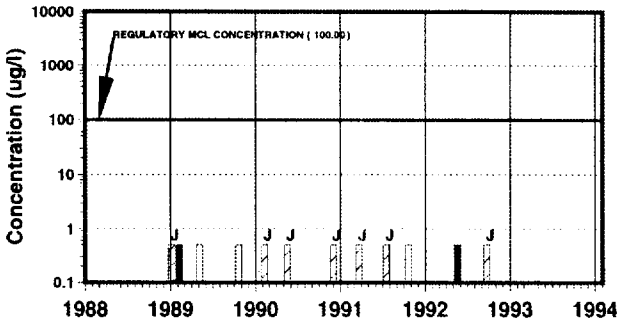
SAMPLING DEPTH (ft bgs)=(275)

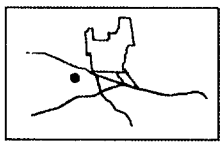


18_MCAS01

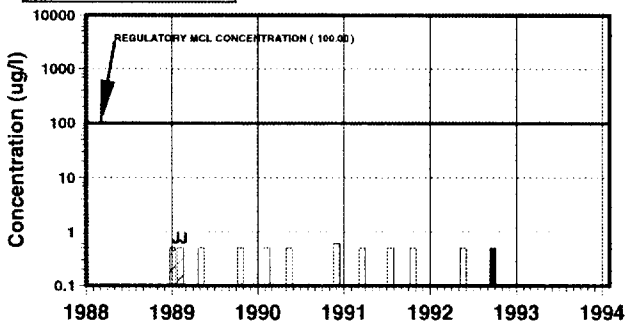
SAMPLING DEPTH (ft bgs)=(335)

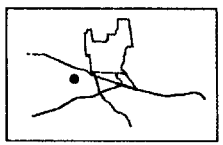


18_MCAS01

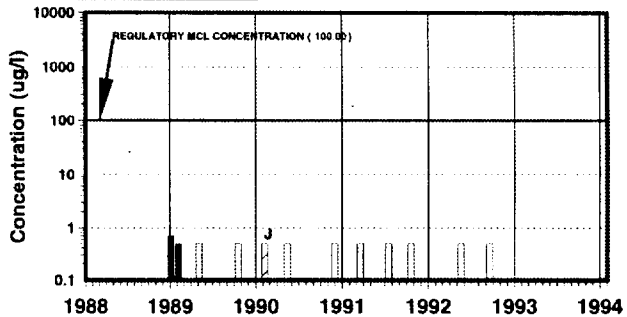
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

SAMPLING DEPTH (ft bgs)=(545)

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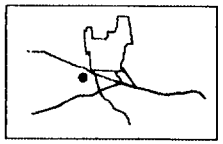
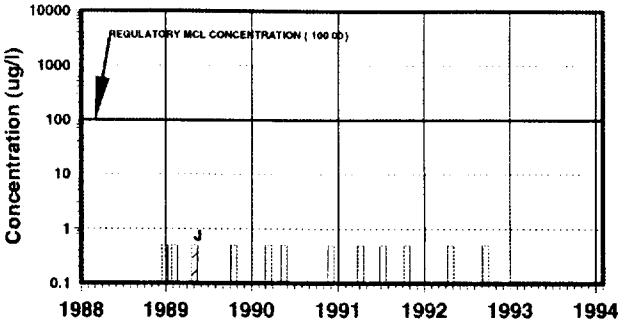
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

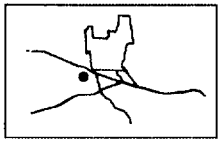
*CHLOROFORM Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

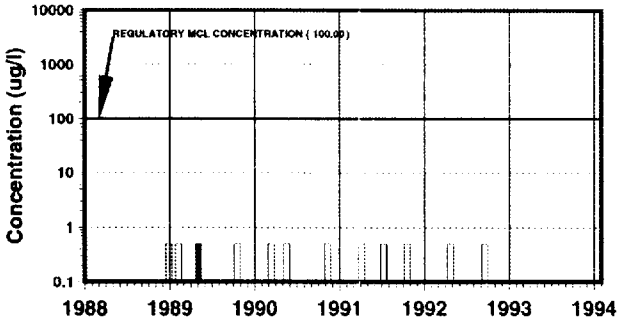
SAMPLING DEPTH (ft bgs)=(45)

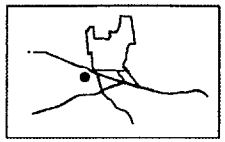


*18*_MCAS02

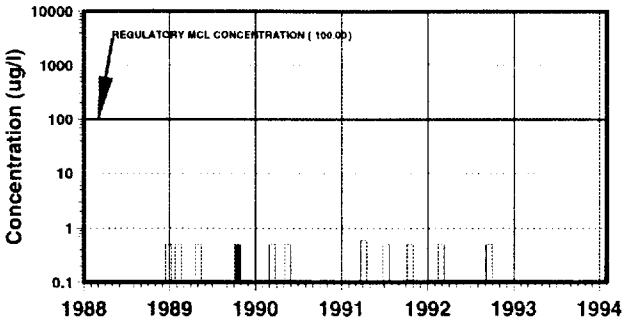
SAMPLING DEPTH (ft bgs)=(135)

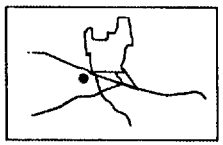


*18*_MCAS02

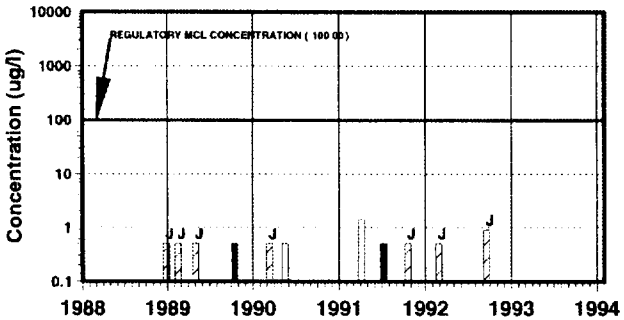
SAMPLING DEPTH (ft bgs)=(205)

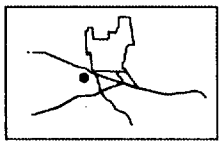


*18*_MCAS02

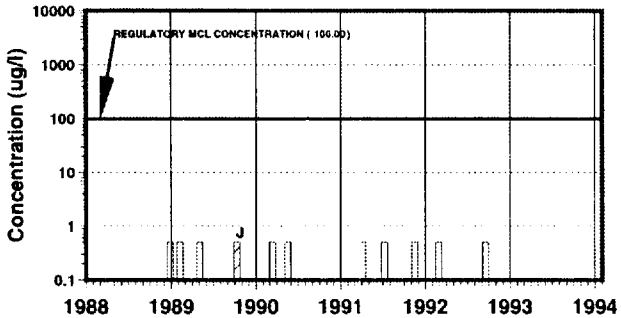
SAMPLING DEPTH (ft bgs)=(375)

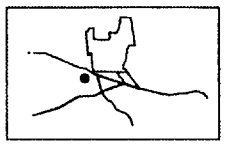


*18*_MCAS02

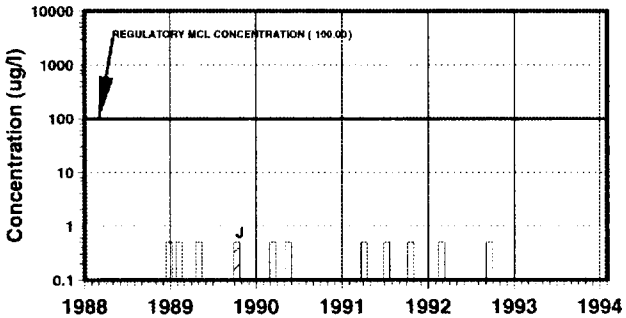
SAMPLING DEPTH (ft bgs)=(425)

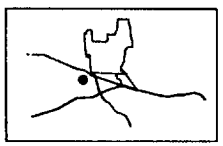


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(495)



*18*_MCAS02

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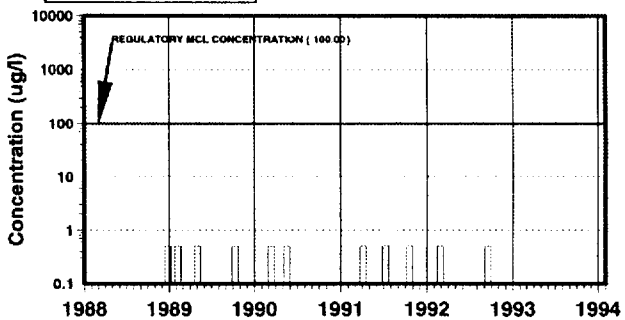
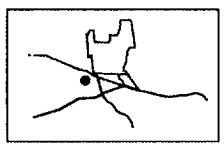
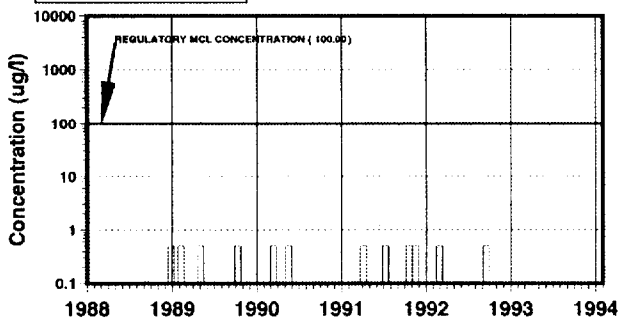


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(625)



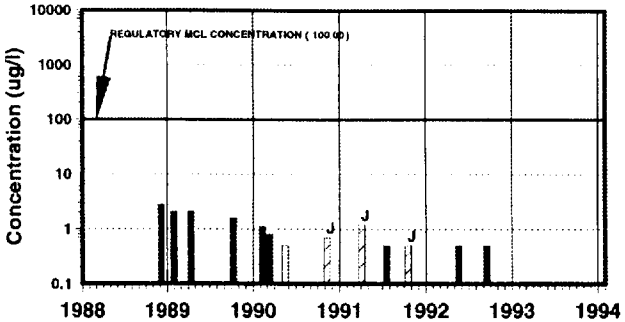

*Fri Apr 30 23:49:41 1993*

## CHLOROFORM Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

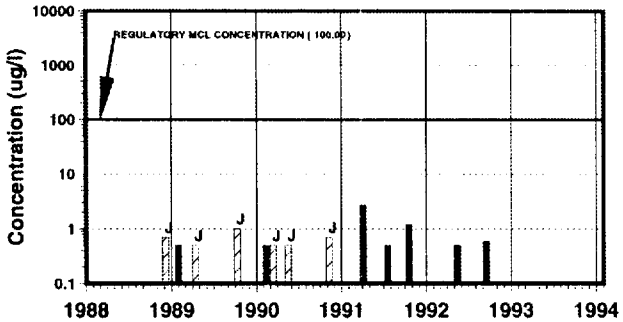
18_MCAS03

SAMPLING DEPTH (ft bgs)=(90)



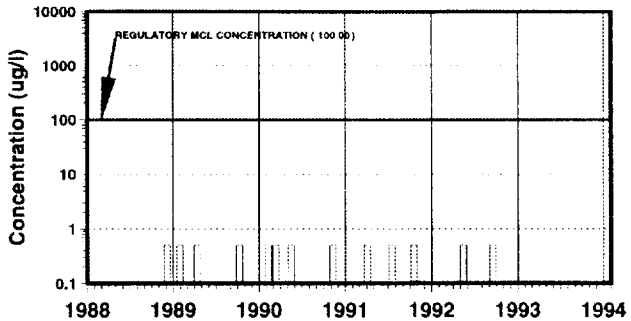
18_MCAS03

SAMPLING DEPTH (ft bgs)=(165)



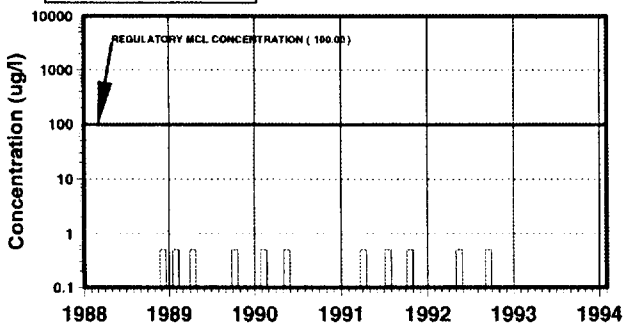
18_MCAS03

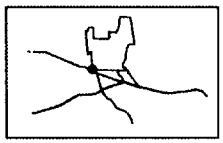
SAMPLING DEPTH (ft bgs)=(225)



18_MCAS03

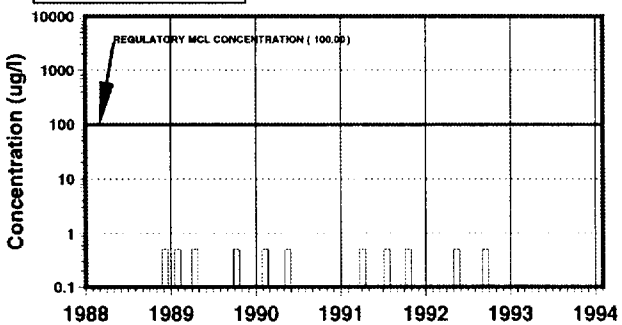
SAMPLING DEPTH (ft bgs)=(345)

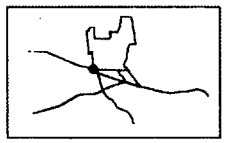


18_MCAS03

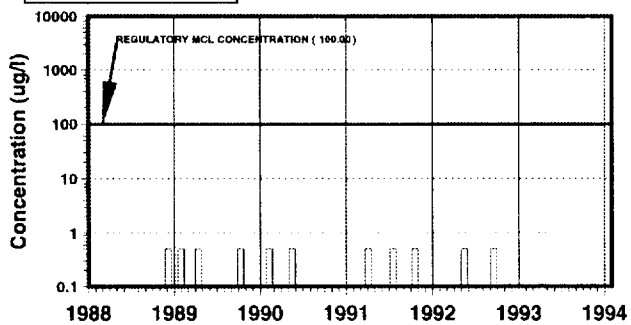
SAMPLING DEPTH (ft bgs)=(425)



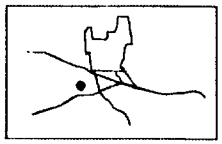
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



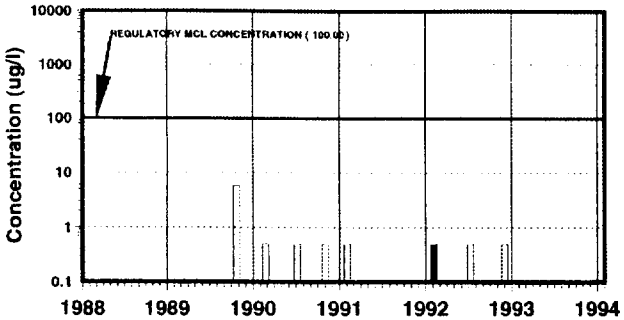
## *CHLOROFORM Concentration*

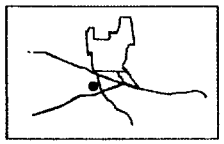
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

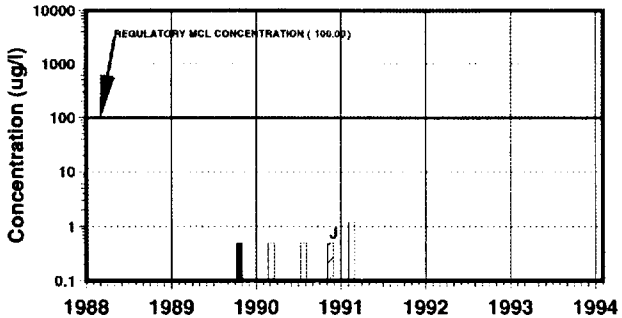
SAMPLING DEPTH (ft bgs)=(181-236)

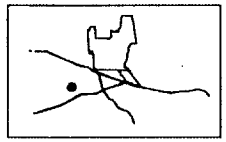


*18*_MCAS05

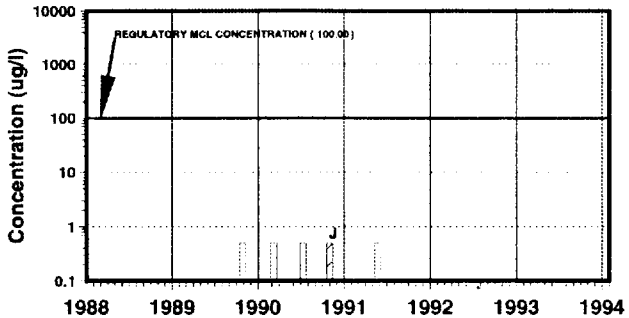
SAMPLING DEPTH (ft bgs)=(142-148)

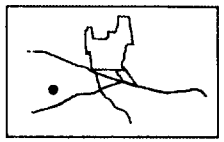


*18*_MCAS06

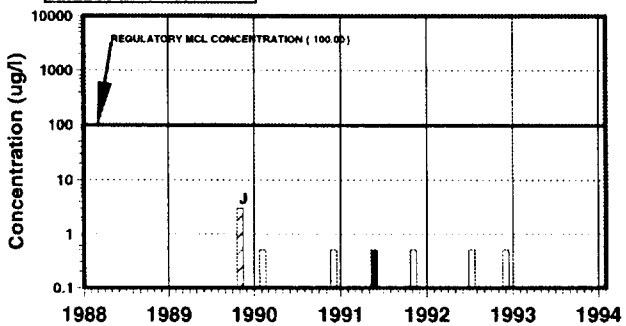
SAMPLING DEPTH (ft bgs)=(167-222)

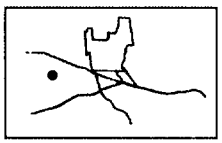


*18*_MCAS08

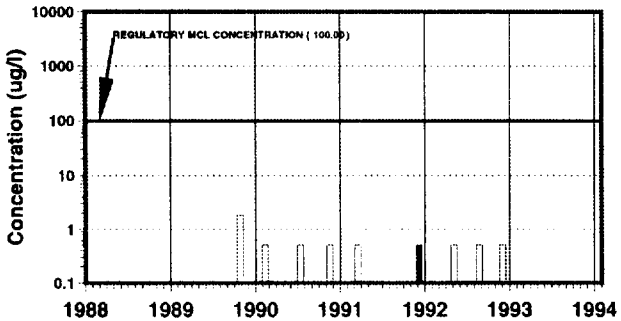
SAMPLING DEPTH (ft bgs)=(392-410)

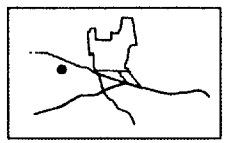


*18*_MCAS09

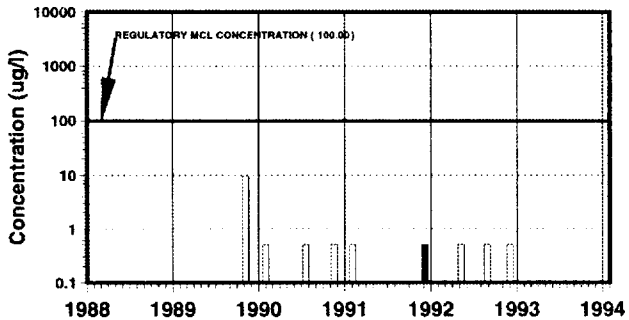
SAMPLING DEPTH (ft bgs)=(372-445)



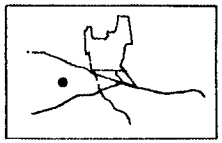
*18*_MCAS10

SAMPLING DEPTH (ft bgs)=(355-375)



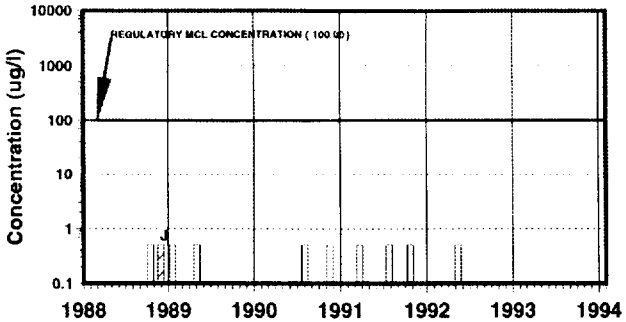
## CHLOROFORM Concentration

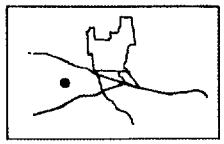
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

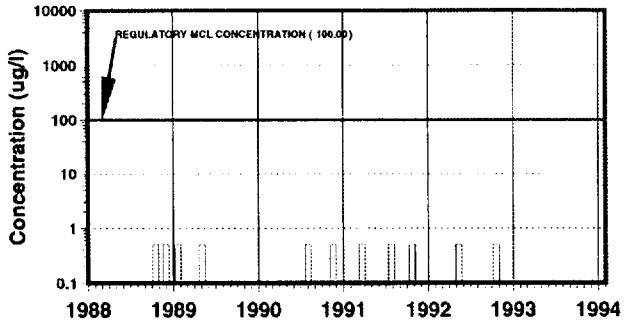
SAMPLING DEPTH (ft bgs)=(94)

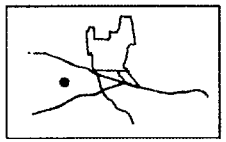


18_MCAS07

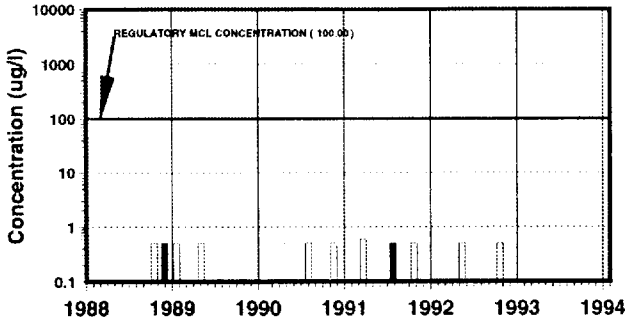
SAMPLING DEPTH (ft bgs)=(194)

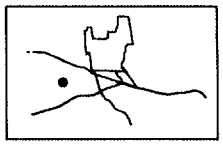


18_MCAS07

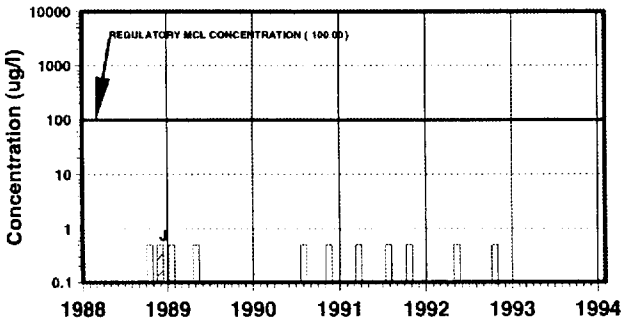
SAMPLING DEPTH (ft bgs)=(354)

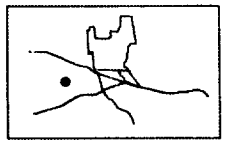


18_MCAS07

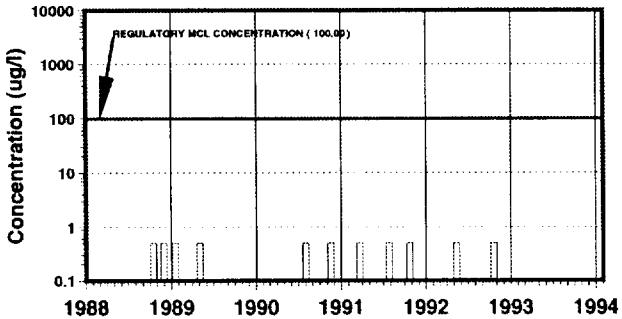
SAMPLING DEPTH (ft bgs)=(444)

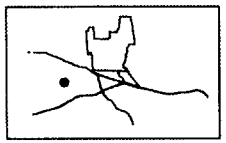


18_MCAS07

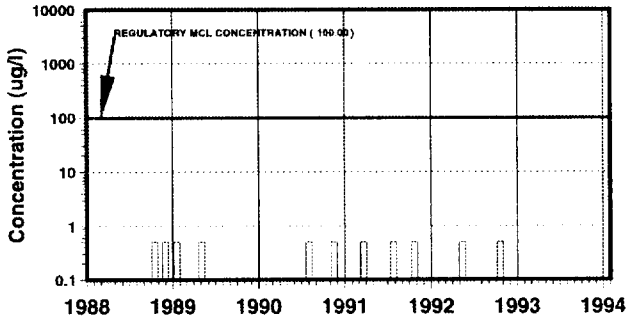
SAMPLING DEPTH (ft bgs)=(514)

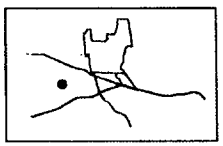


18_MCAS07

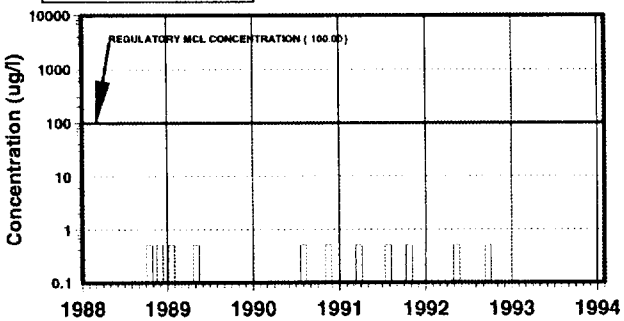
SAMPLING DEPTH (ft bgs)=(804)

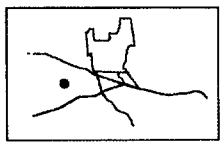


18_MCAS07

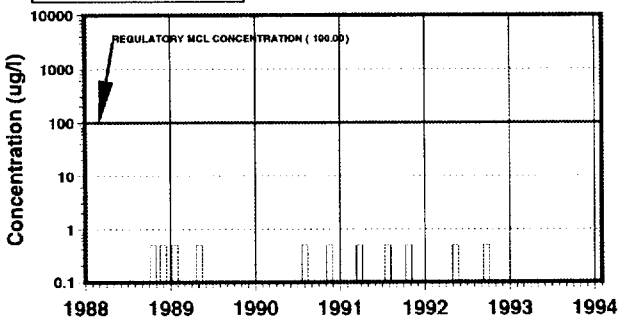
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)

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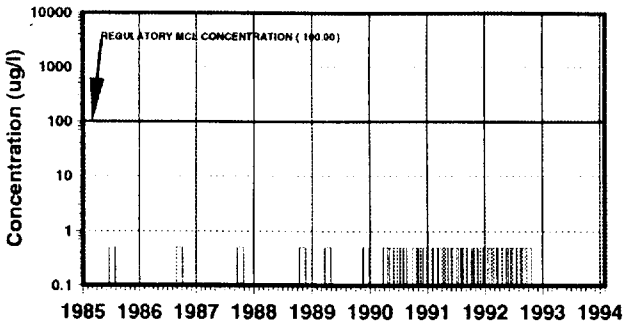
## *CHLOROFORM Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

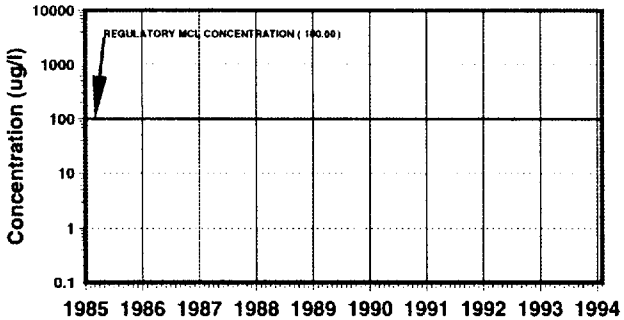
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(370-890)



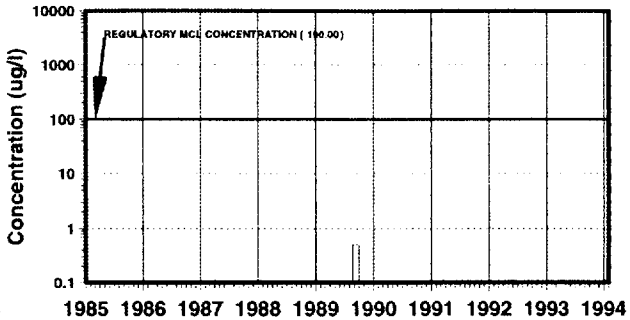
### *18*_RW3

SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

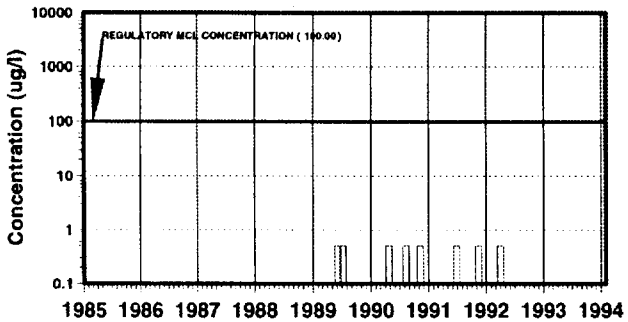
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

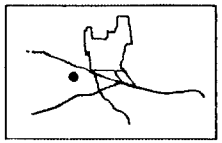
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(210)



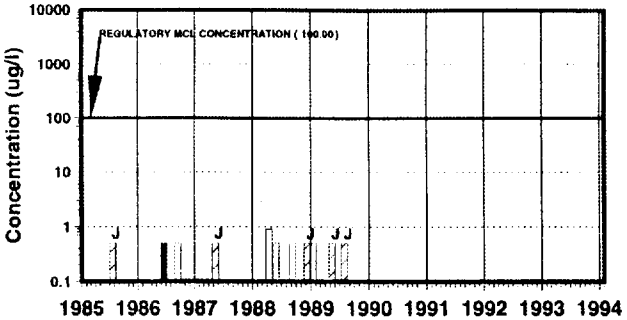
## CHLOROFORM Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



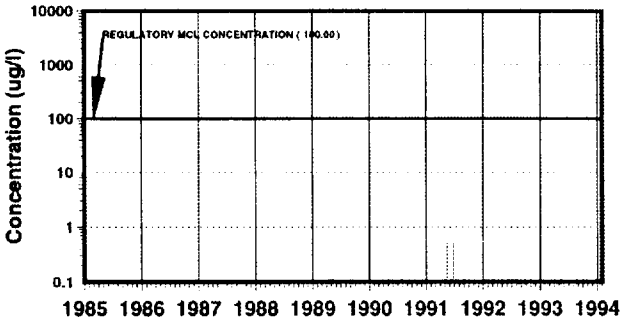
### 18_TIC035

SAMPLING DEPTH (ft bgs)=(263-1503)



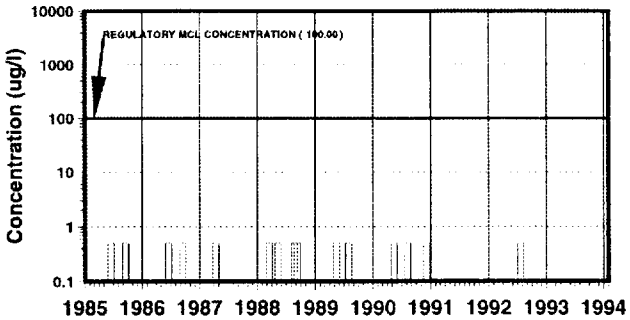
### 18_TIC037

SAMPLING DEPTH (ft bgs)=(255-1560)



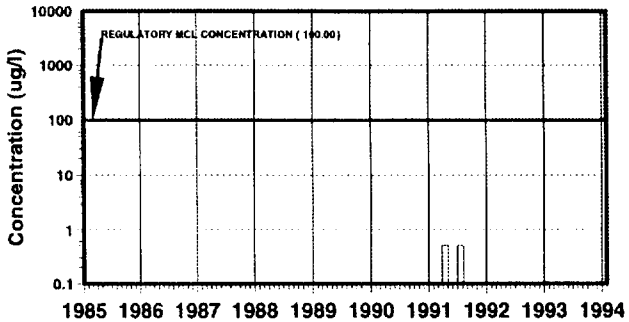
### 18_TIC047

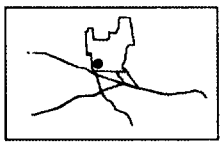
SAMPLING DEPTH (ft bgs)=(268-1107)



### 18_TIC051

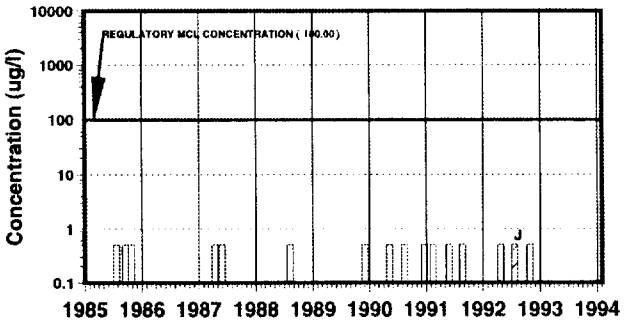
SAMPLING DEPTH (ft bgs)=(220-740)

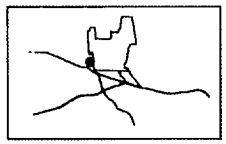


### 18_TIC055

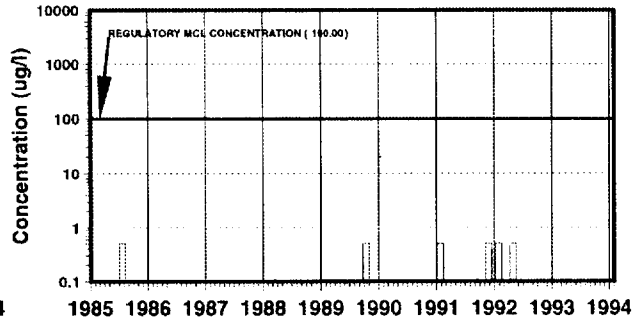
SAMPLING DEPTH (ft bgs)=(496)

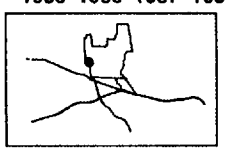


### 18_TIC056

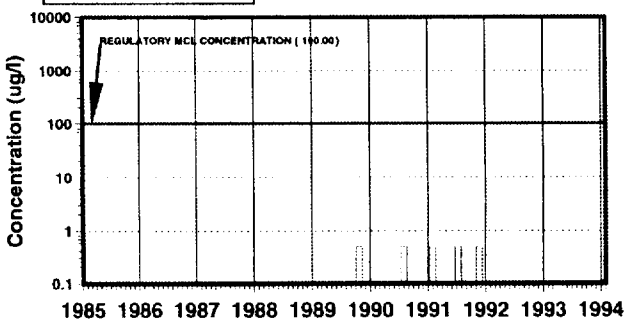
SAMPLING DEPTH (ft bgs)=(336-647)

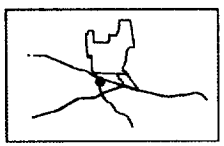


### 18_TIC061

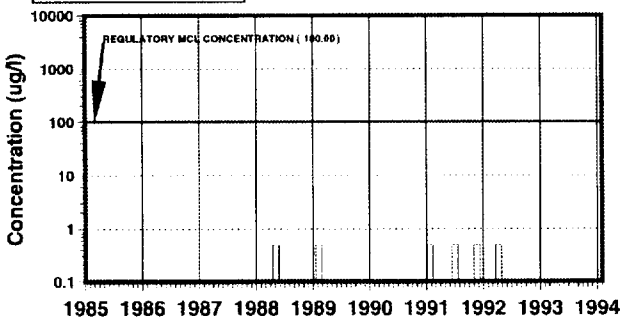
SAMPLING DEPTH (ft bgs)=(248-694)

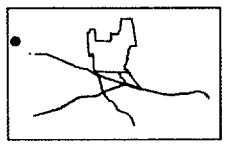


### 18_TIC068

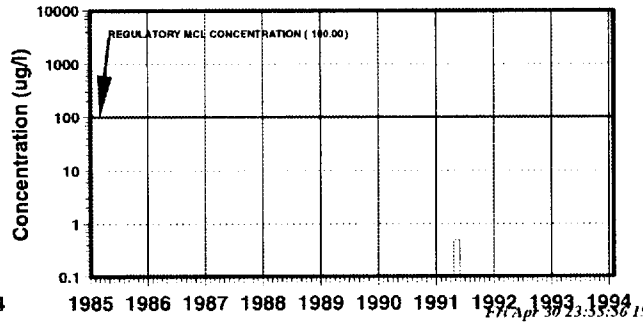
SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)

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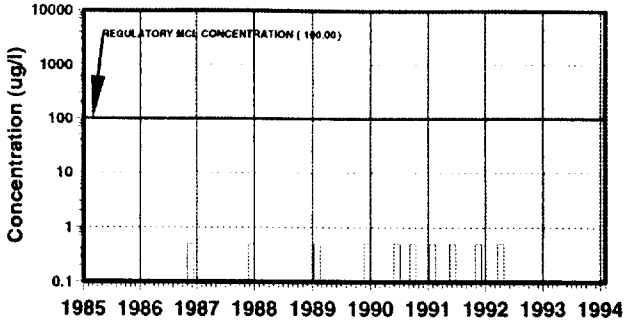
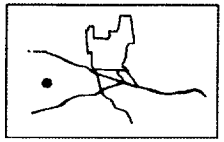
## *CHLOROFORM Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_TIC074

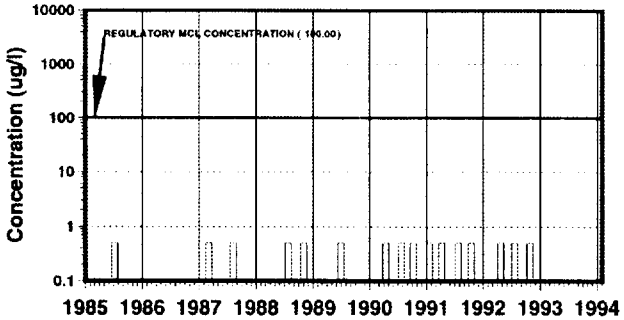
SAMPLING DEPTH (ft bgs)=(210-260)

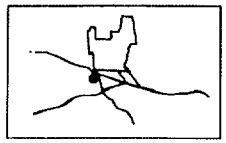


*18*_TIC078

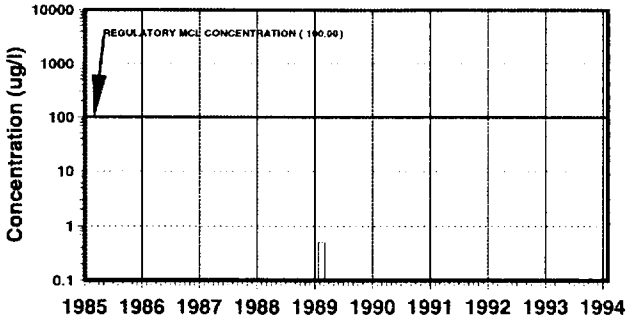
SAMPLING DEPTH (ft bgs)=(410-690)

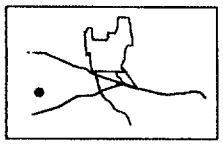


*18*_TIC083

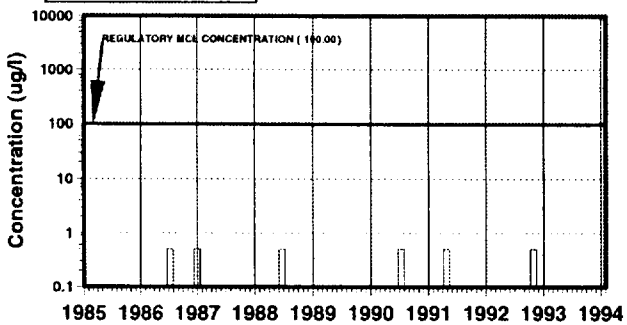
SAMPLING DEPTH (ft bgs)=(261-402)

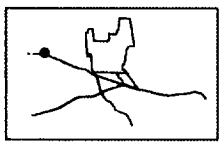


*18*_TIC106

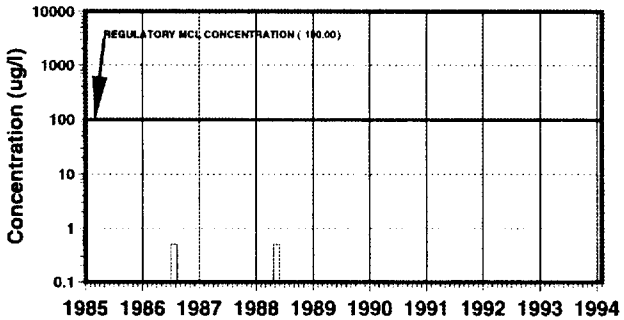
SAMPLING DEPTH (ft bgs)=(405-715)

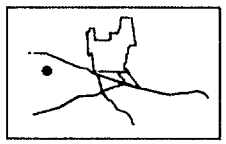


*18*_TIC107

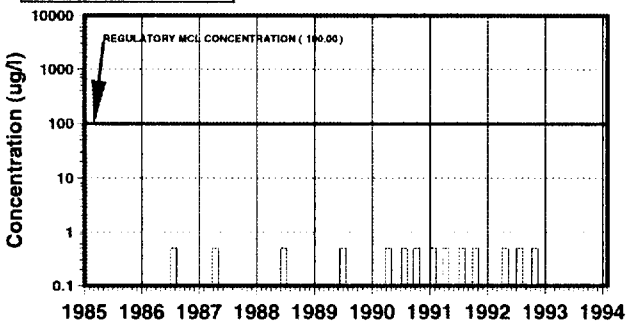
SAMPLING DEPTH (ft bgs)=(230-980)

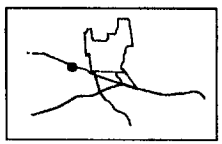


*18*_TIC108

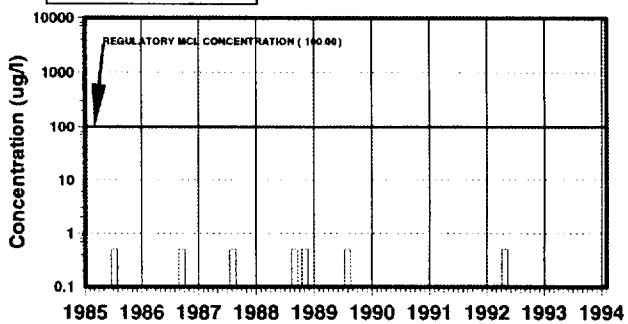
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



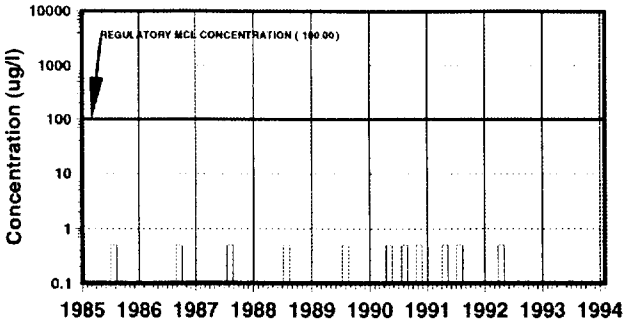

*Fri Apr 30 23:57:52 1993*

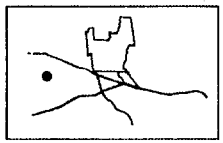
## CHLOROFORM Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

### 18_TIC111

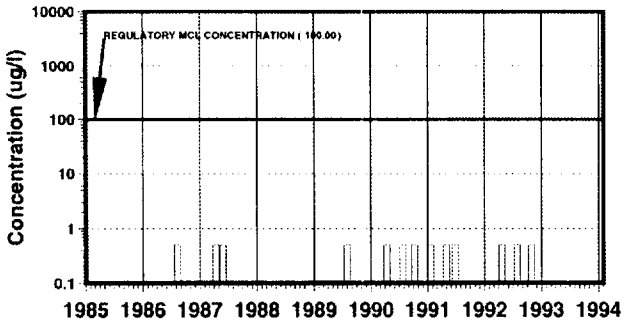
SAMPLING DEPTH (ft bgs)=(750)

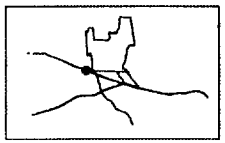


### 18_TIC113

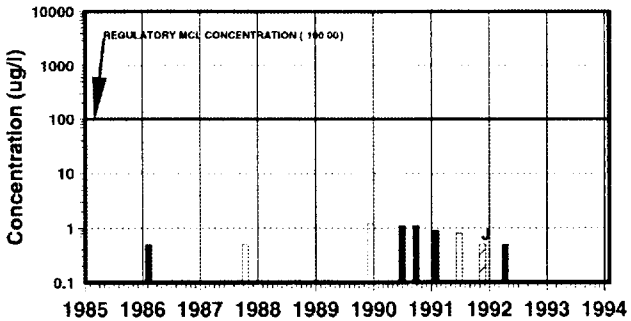
SAMPLING DEPTH (ft bgs)=(280-1080)

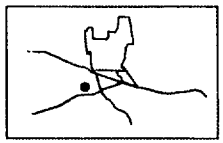


### 18_TIC117

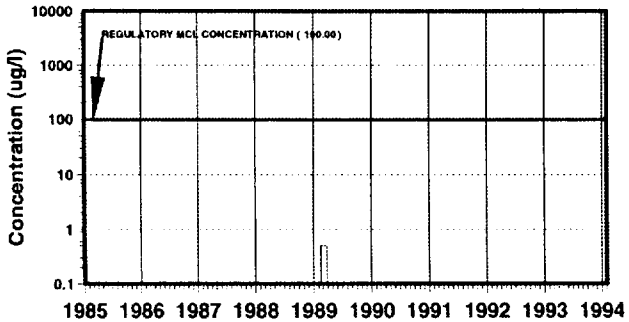
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



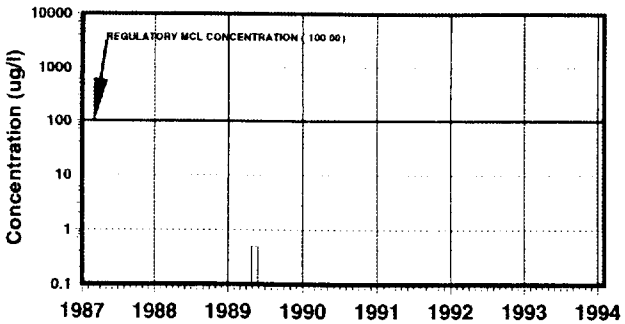
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*CHLOROFORM Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

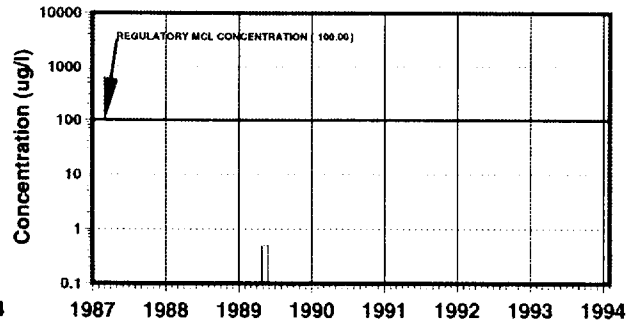
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

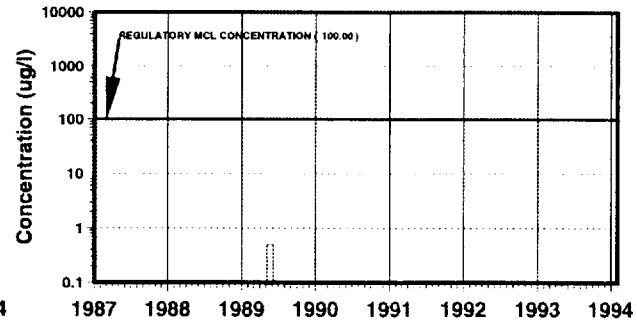
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

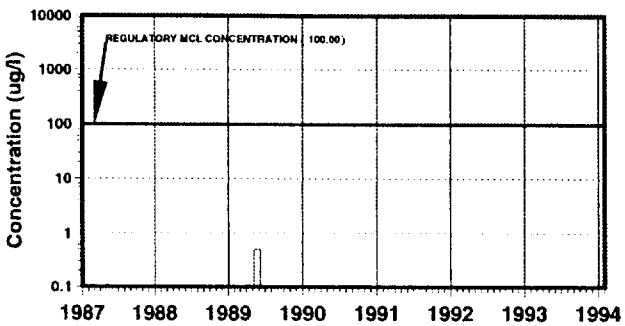
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

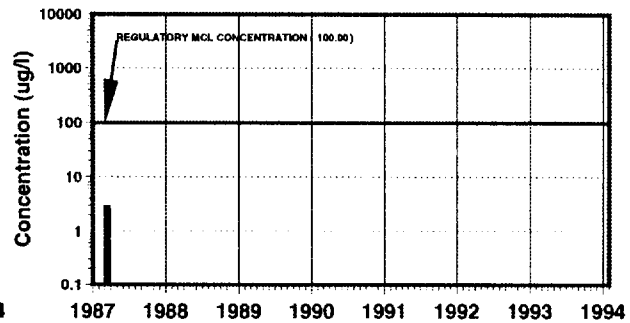
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

*NO X,Y DATA*

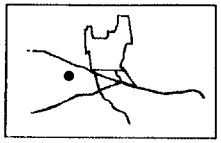
SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 16:56:21 1993*

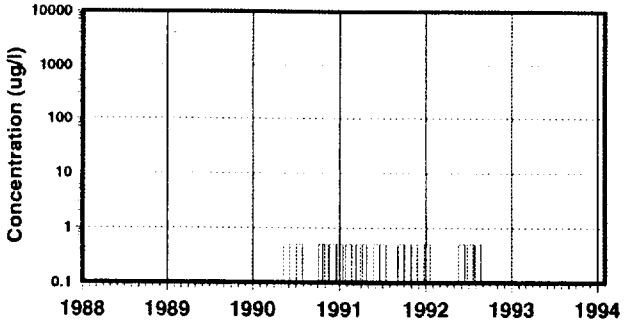
## *ETHYLBENZENE Concentration*

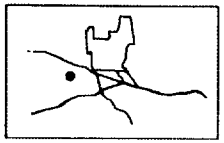
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

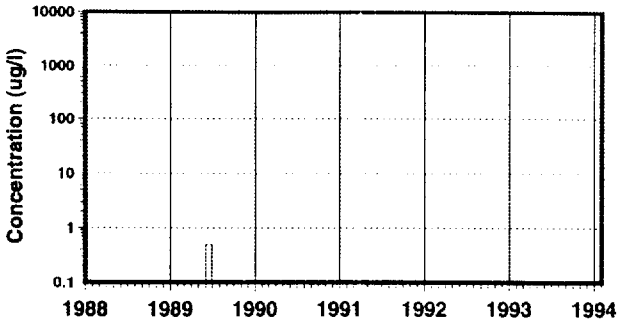
SAMPLING DEPTH (ft bgs)=(220-490)

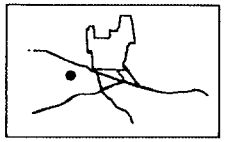


*18*_ET1

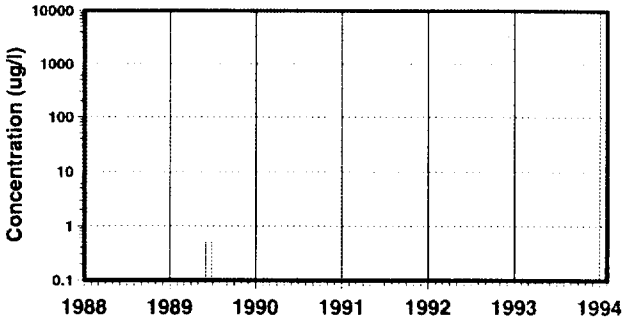
SAMPLING DEPTH (ft bgs)=(200)

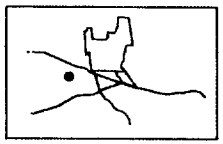


*18*_ET1

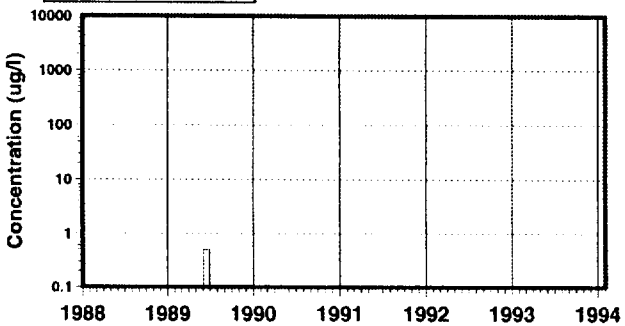
SAMPLING DEPTH (ft bgs)=(300)

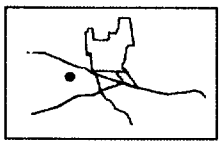


*18*_ET1

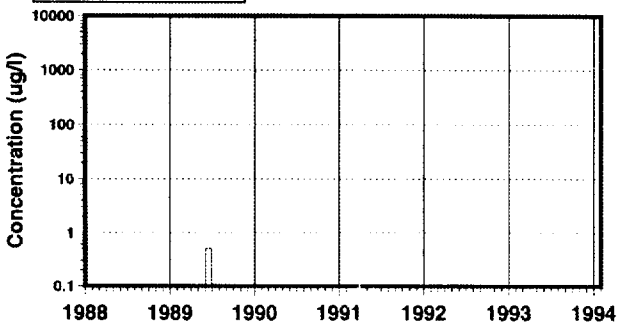
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

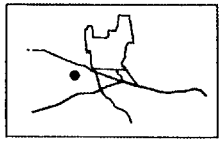
SAMPLING DEPTH (ft bgs)=(440)




*Sat May 1 21:47:47 1993*

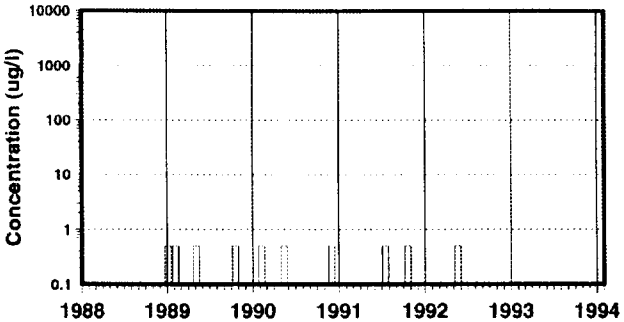
## ETHYLBENZENE Concentration

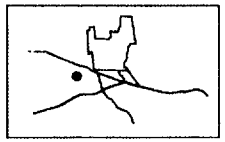
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

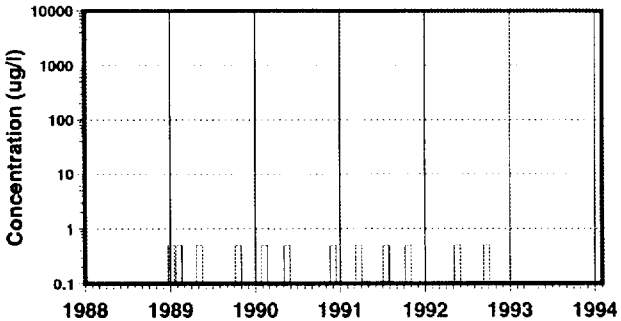
SAMPLING DEPTH (ft bgs)=(65)

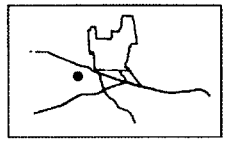


18_MCAS01

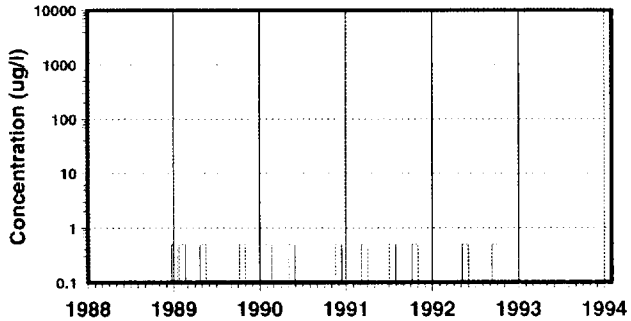
SAMPLING DEPTH (ft bgs)=(155)

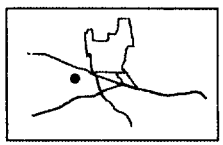


18_MCAS01

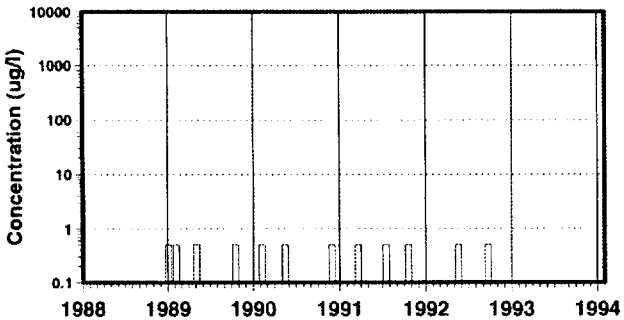
SAMPLING DEPTH (ft bgs)=(215)

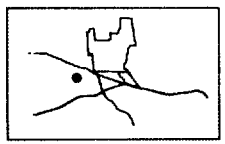


18_MCAS01

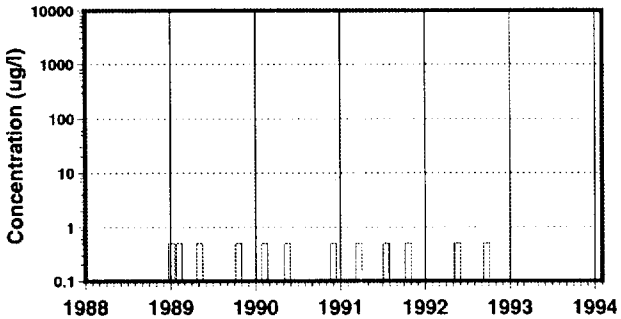
SAMPLING DEPTH (ft bgs)=(275)

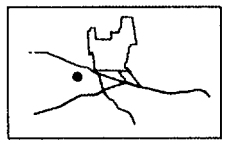


18_MCAS01

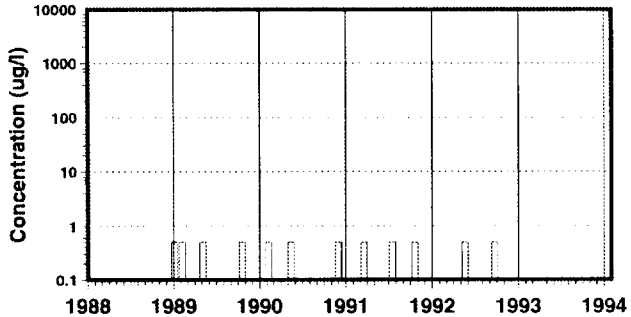
SAMPLING DEPTH (ft bgs)=(335)

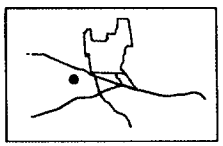


18_MCAS01

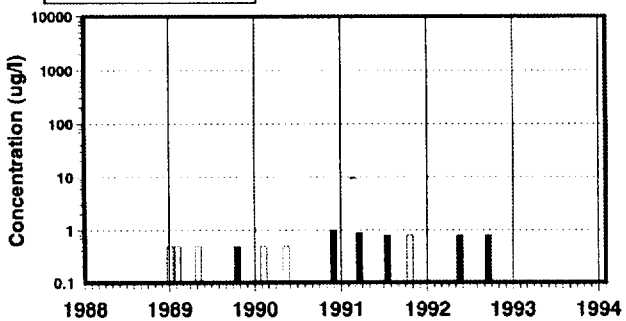
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

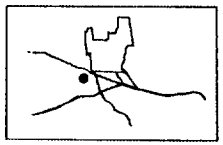
SAMPLING DEPTH (ft bgs)=(545)




Sat May 1 21:48:57 1993

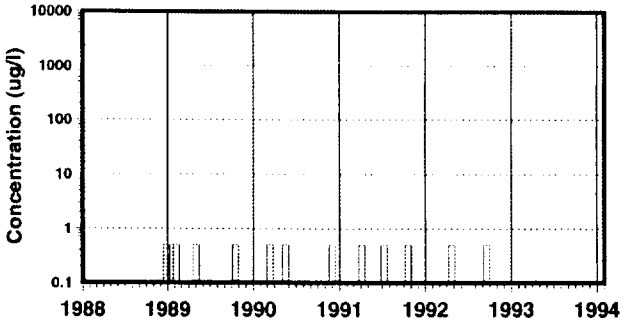
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

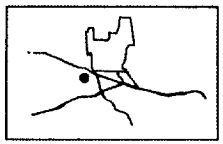
*ETHYLBENZENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

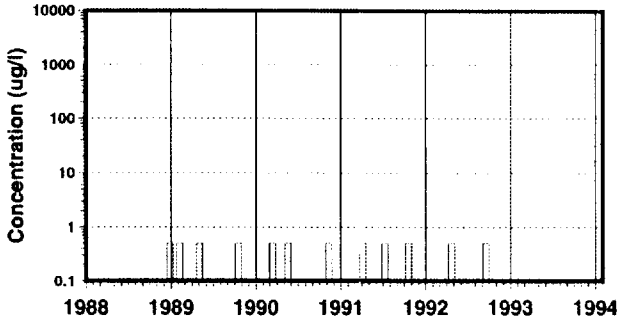
SAMPLING DEPTH (ft bgs)=(45)

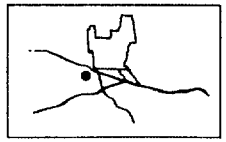


*18*_MCAS02

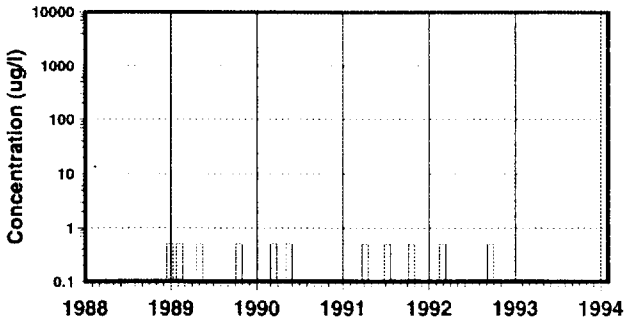
SAMPLING DEPTH (ft bgs)=(135)

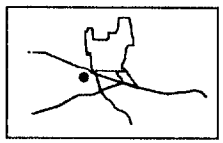


*18*_MCAS02

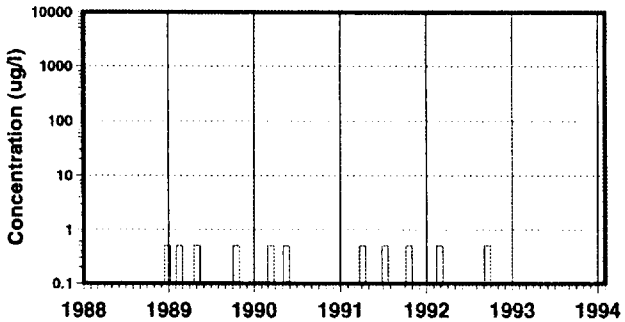
SAMPLING DEPTH (ft bgs)=(205)

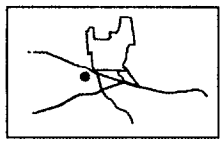


*18*_MCAS02

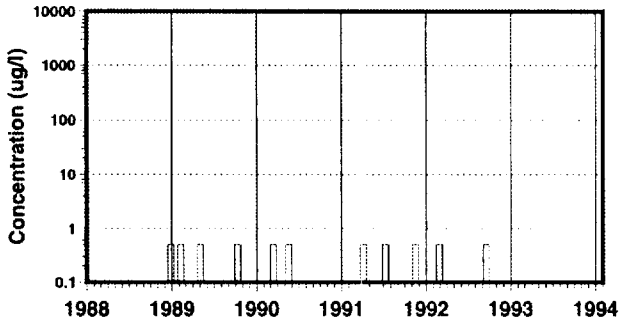
SAMPLING DEPTH (ft bgs)=(375)

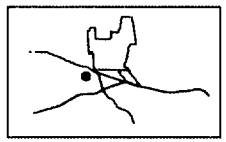


*18*_MCAS02

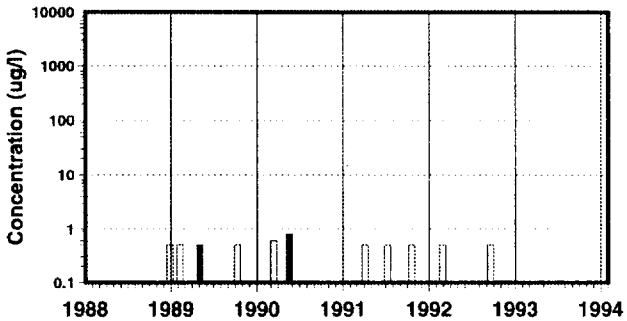
SAMPLING DEPTH (ft bgs)=(425)

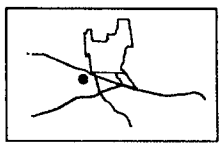


*18*_MCAS02

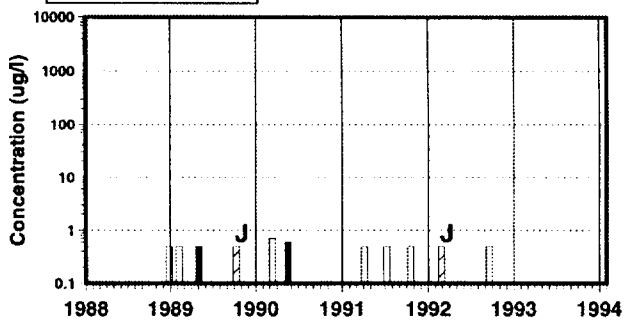
SAMPLING DEPTH (ft bgs)=(495)

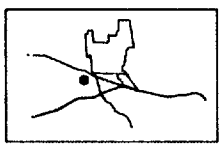


*18*_MCAS02

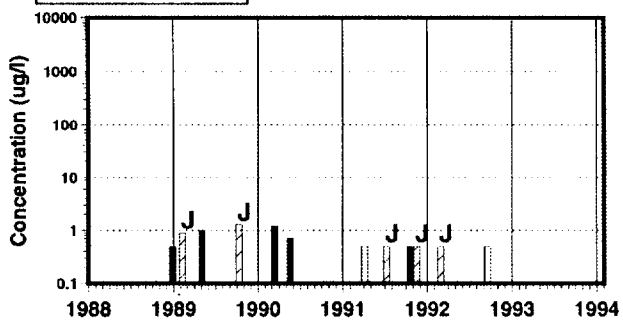
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

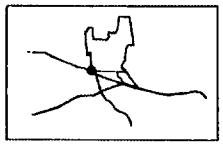
SAMPLING DEPTH (ft bgs)=(625)




*Sat May 1 21:50:30 1993*

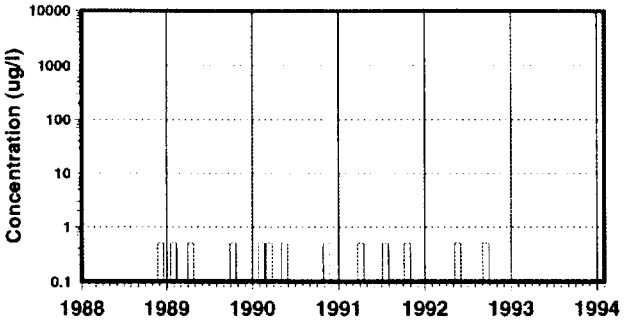
## ETHYLBENZENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



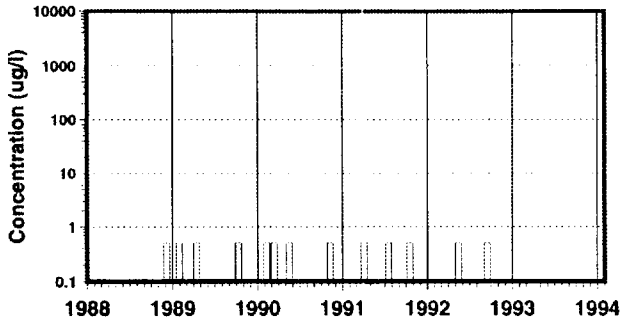
18_MCAS03

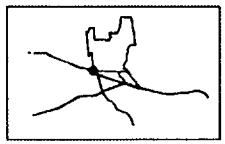
SAMPLING DEPTH (ft bgs)=(90)



18_MCAS03

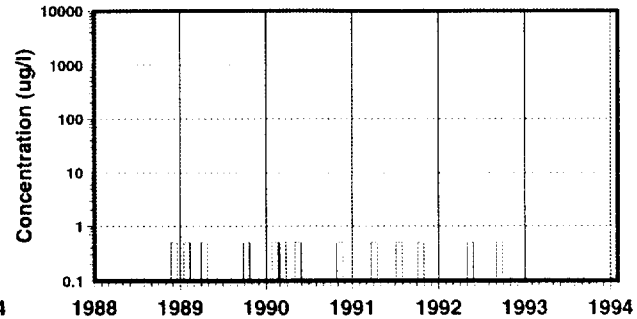
SAMPLING DEPTH (ft bgs)=(165)

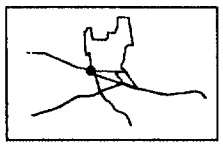


18_MCAS03

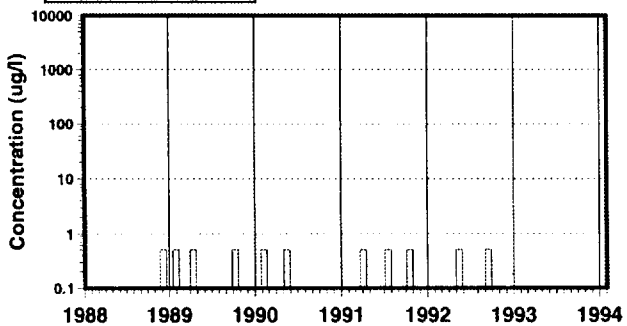
SAMPLING DEPTH (ft bgs)=(225)

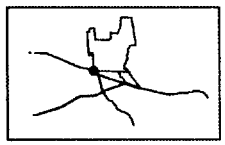


18_MCAS03

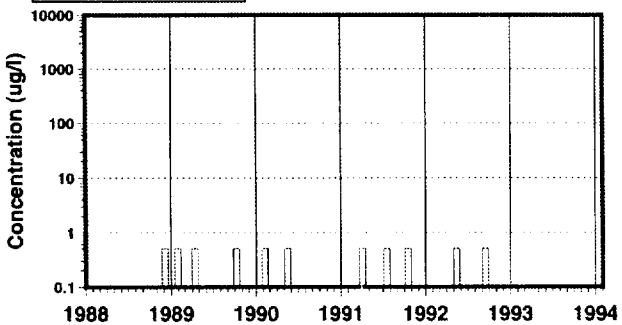
SAMPLING DEPTH (ft bgs)=(345)

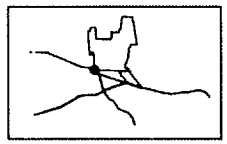


18_MCAS03

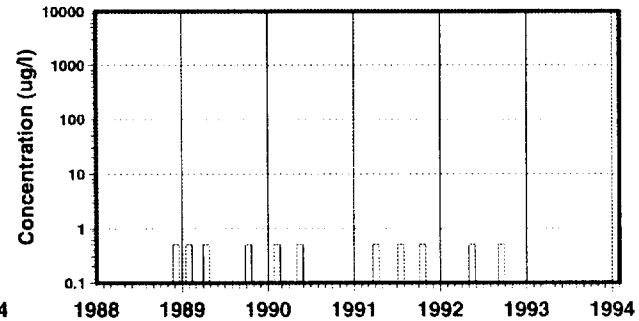
SAMPLING DEPTH (ft bgs)=(425)



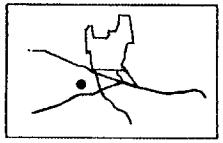
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



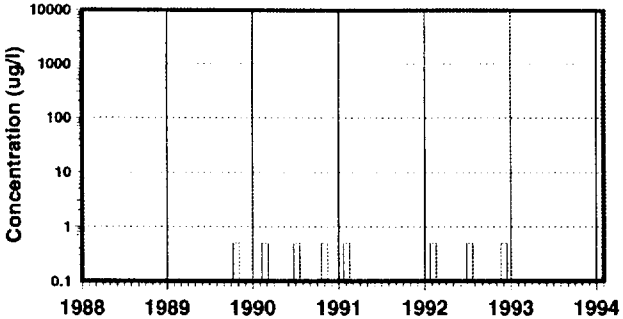
## *ETHYLBENZENE Concentration*

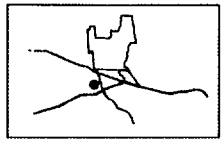
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

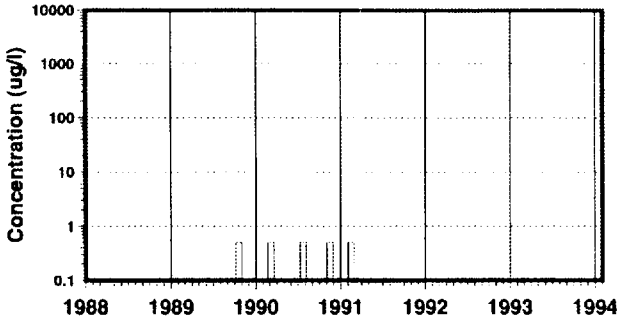
SAMPLING DEPTH (ft bgs)=(181-238)

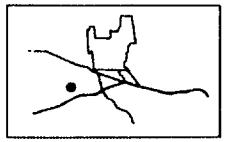


*18*_MCAS05

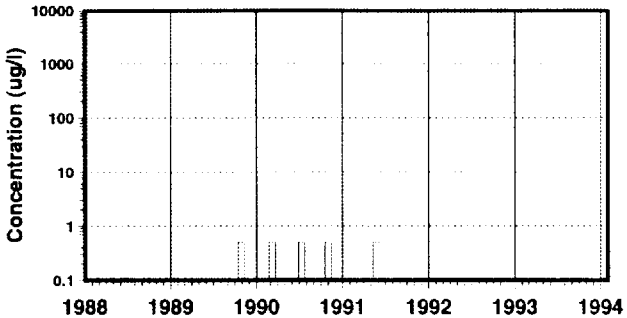
SAMPLING DEPTH (ft bgs)=(142-148)

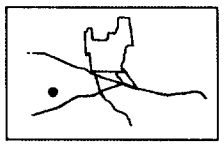


*18*_MCAS06

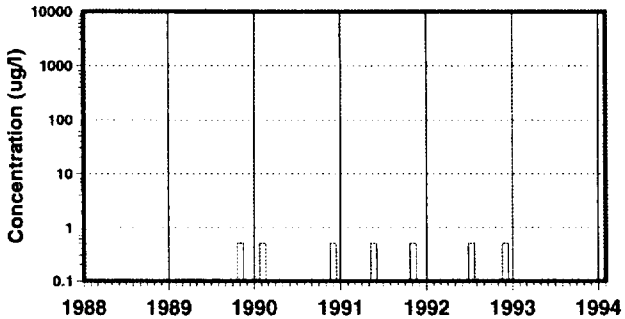
SAMPLING DEPTH (ft bgs)=(167-222)

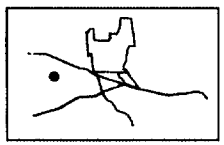


*18*_MCAS08

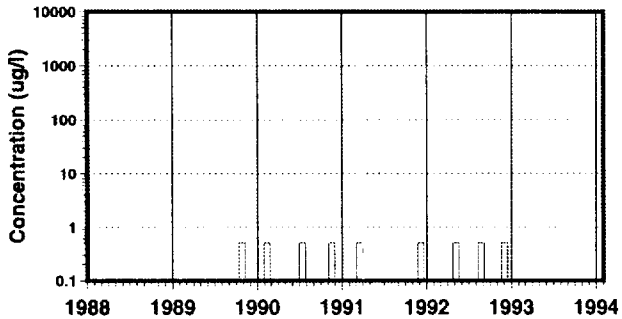
SAMPLING DEPTH (ft bgs)=(392-410)

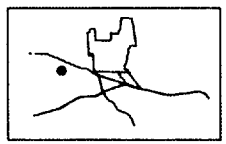


*18*_MCAS09

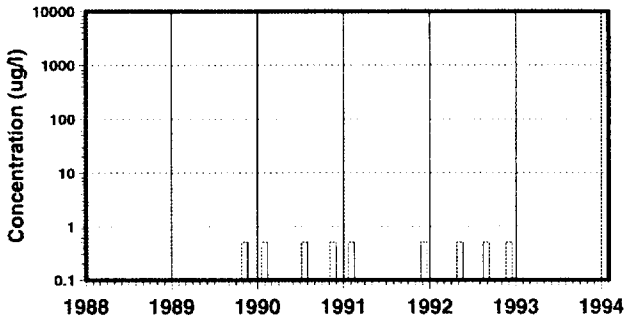
SAMPLING DEPTH (ft bgs)=(372-445)



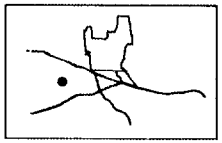
*18*_MCAS10

SAMPLING DEPTH (ft bgs)=(355-375)



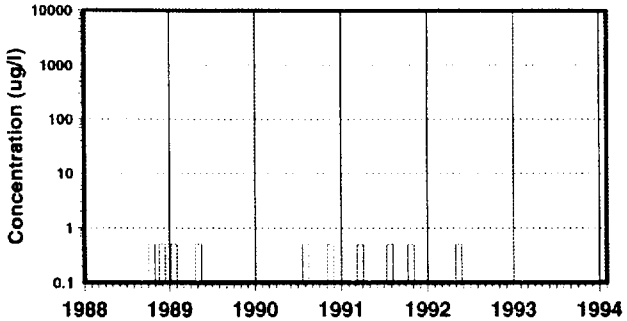
CAS EL TORO Phase I RI Technical Memorandum OCWD - . .OUND WATER QUALITY DATA

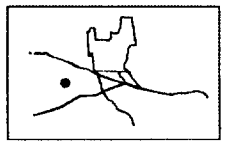
ETHYLBENZENE Concentration FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

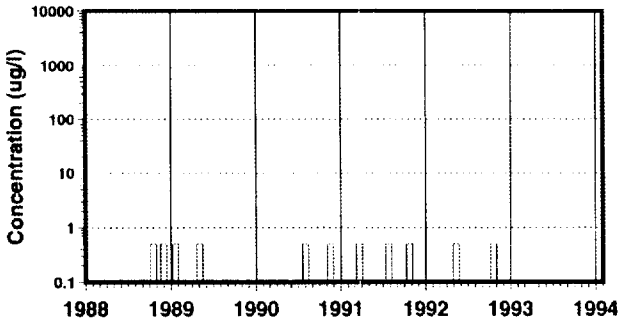
SAMPLING DEPTH (ft bgs)=(94)

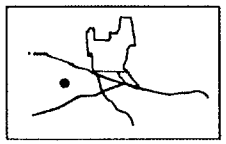


18_MCAS07

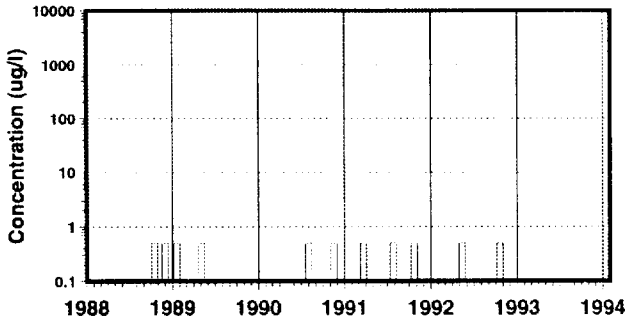
SAMPLING DEPTH (ft bgs)=(194)

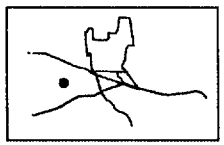


18_MCAS07

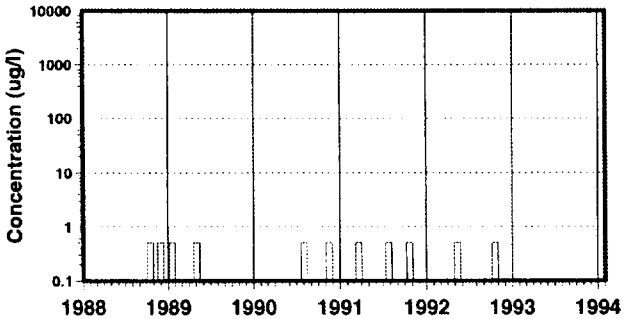
SAMPLING DEPTH (ft bgs)=(354)

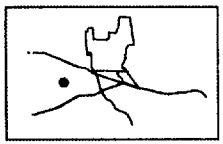


18_MCAS07

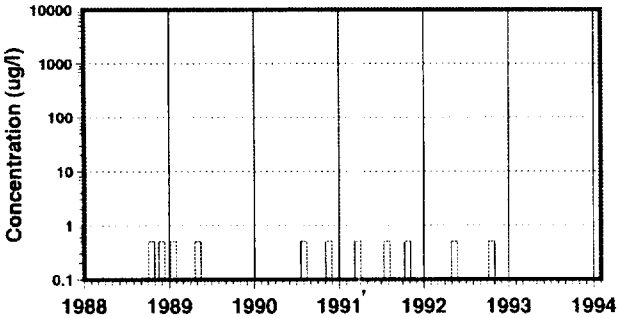
SAMPLING DEPTH (ft bgs)=(444)

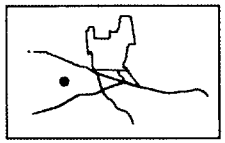


18_MCAS07

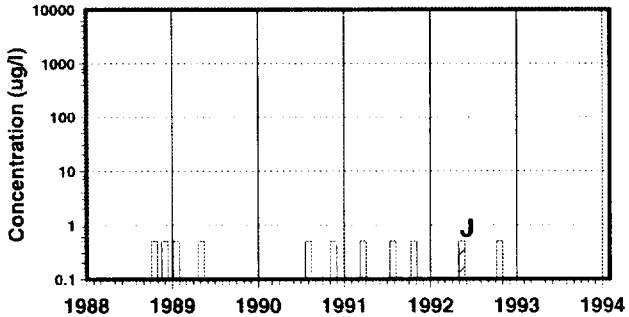
SAMPLING DEPTH (ft bgs)=(514)

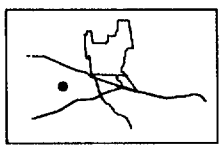


18_MCAS07

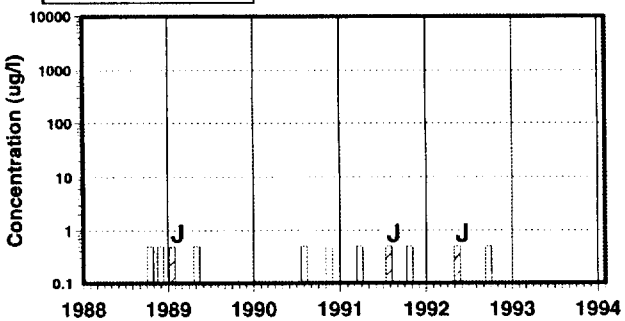
SAMPLING DEPTH (ft bgs)=(804)

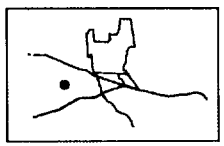


18_MCAS07

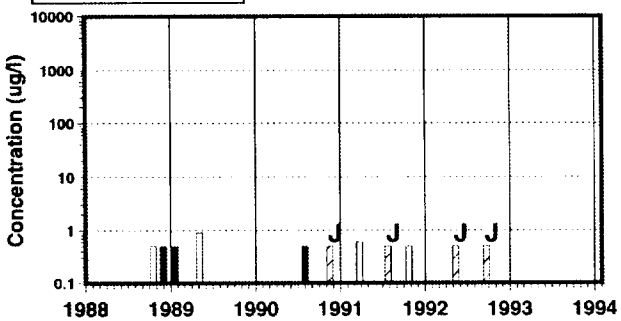
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 21:55:01 1993

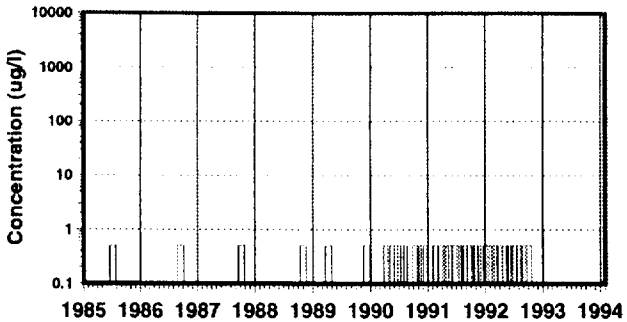
## *ETHYLBENZENE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

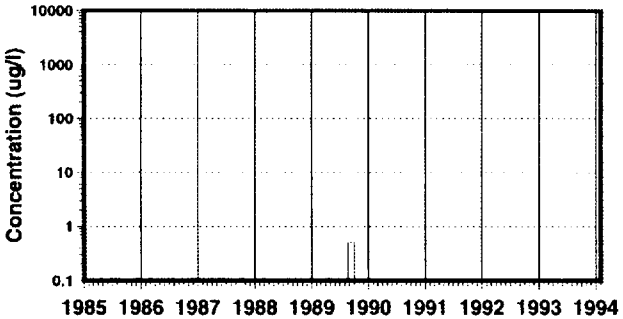
*NO X,Y DATA*

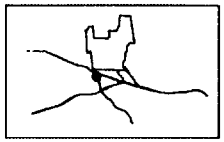
SAMPLING DEPTH (ft bgs)=(370-890)



### *18*_RW3

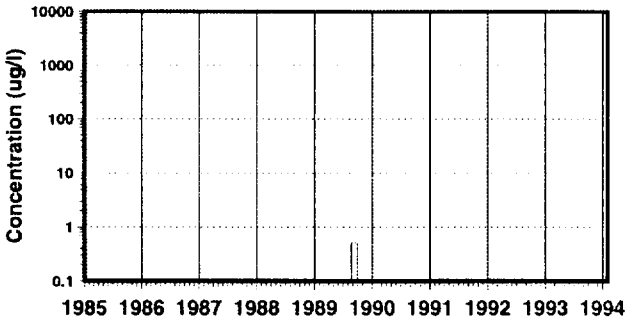
SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

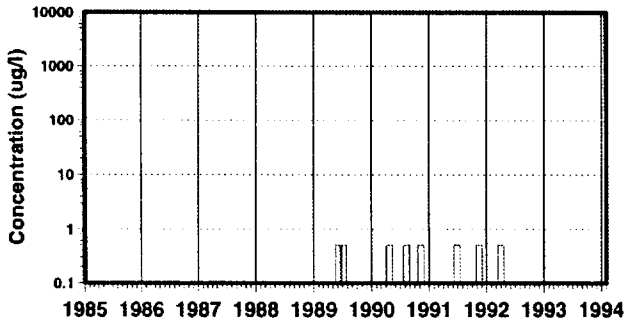
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

*NO X,Y DATA*

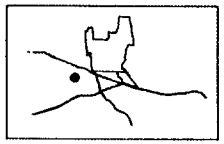
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 21:56:45 1993*

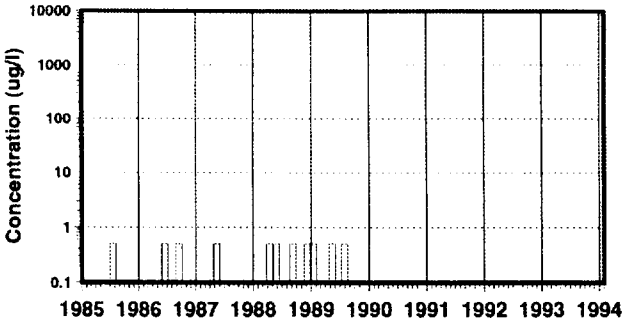
## *ETHYLBENZENE Concentration*

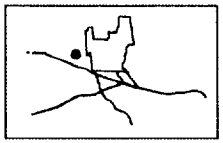
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC035

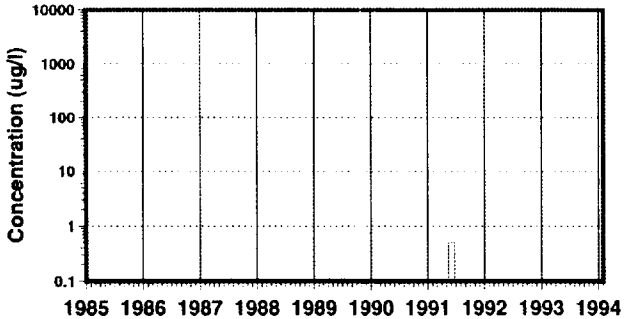
SAMPLING DEPTH (ft bgs)=(263-1503)

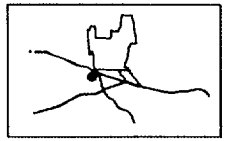


*18*_TIC037

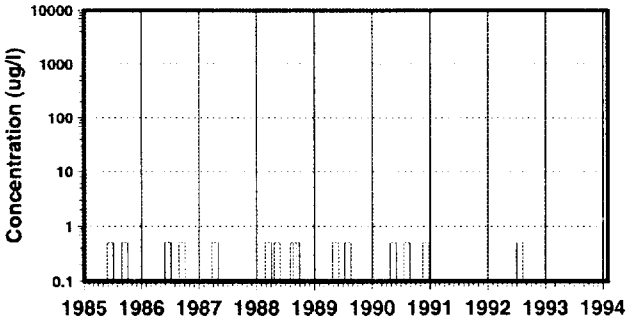
SAMPLING DEPTH (ft bgs)=(255-1560)

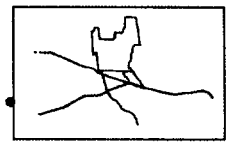


*18*_TIC047

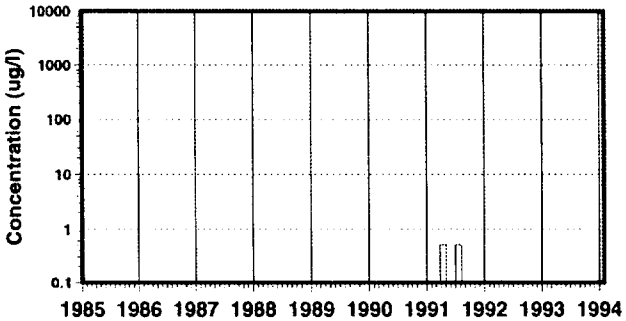
SAMPLING DEPTH (ft bgs)=(268-1107)

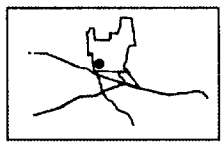


*18*_TIC051

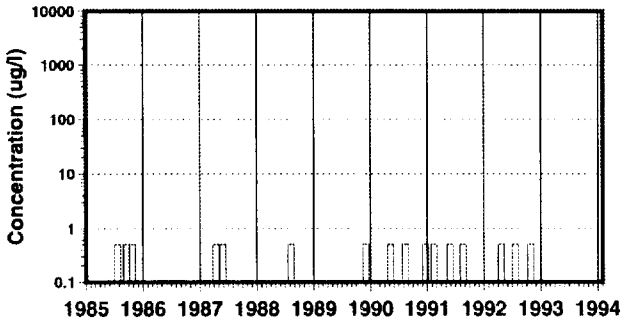
SAMPLING DEPTH (ft bgs)=(220-740)

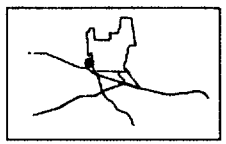


*18*_TIC055

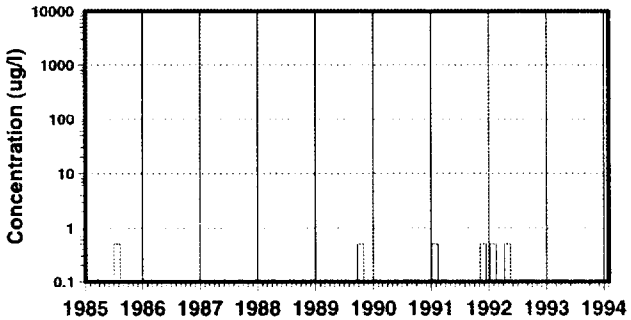
SAMPLING DEPTH (ft bgs)=(496)

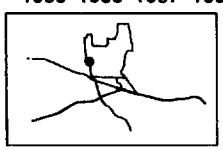


*18*_TIC056

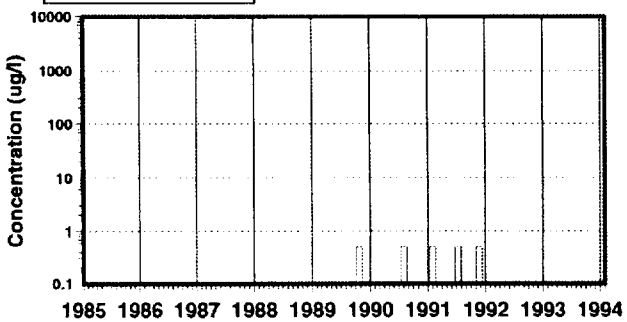
SAMPLING DEPTH (ft bgs)=(336-647)

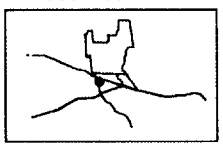


*18*_TIC061

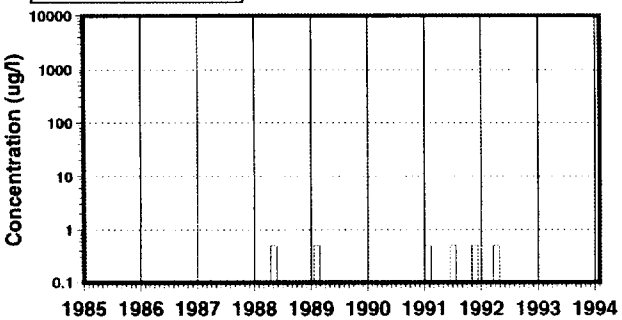
SAMPLING DEPTH (ft bgs)=(248-694)

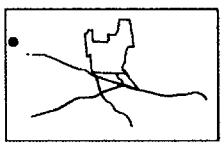


*18*_TIC068

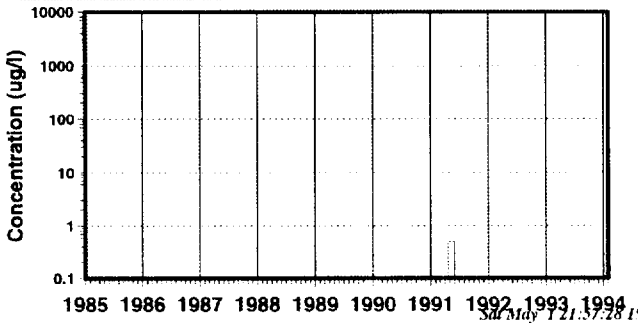
SAMPLING DEPTH (ft bgs)=(274-403)



*18*_TIC072

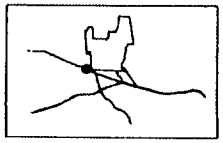
SAMPLING DEPTH (ft bgs)=(274-403)




*Sat May 1 21:57:28 1993*

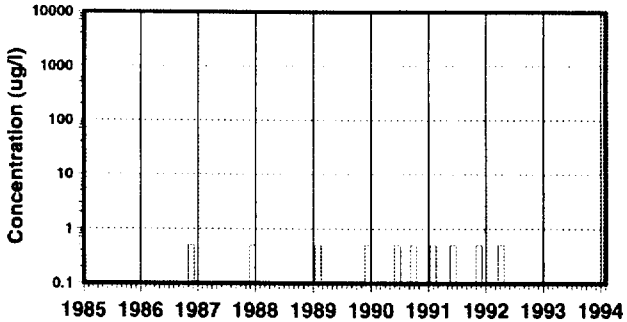
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

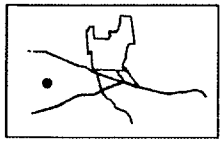
*ETHYLBENZENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

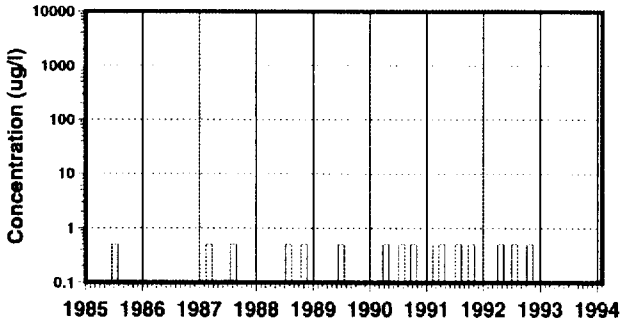
SAMPLING DEPTH (ft bgs)=(210-280)

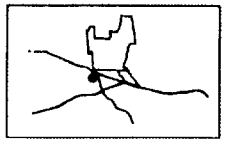


*18*_TIC078

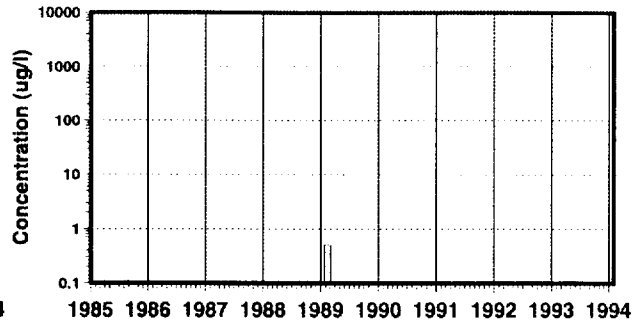
SAMPLING DEPTH (ft bgs)=(410-690)

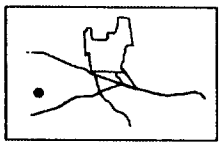


*18*_TIC083

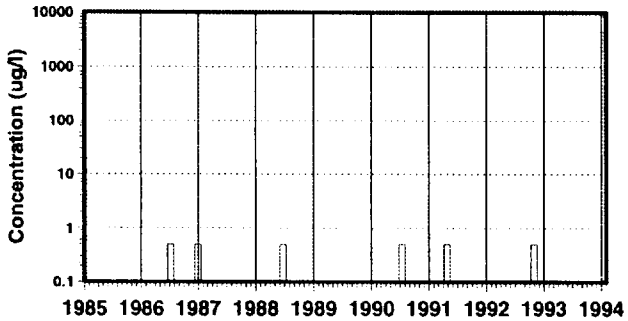
SAMPLING DEPTH (ft bgs)=(261-402)

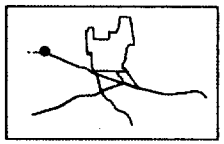


*18*_TIC106

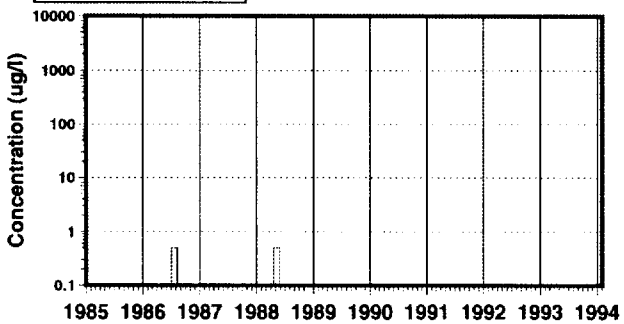
SAMPLING DEPTH (ft bgs)=(405-715)

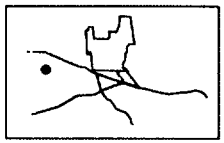


*18*_TIC107

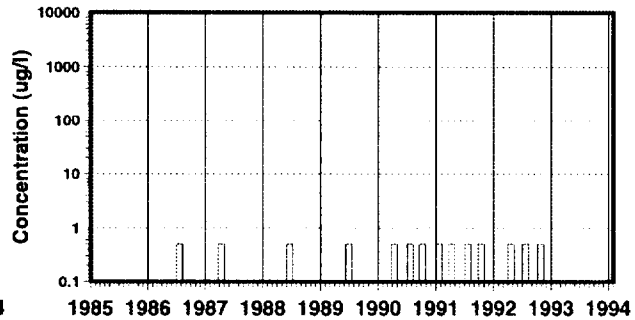
SAMPLING DEPTH (ft bgs)=(230-980)

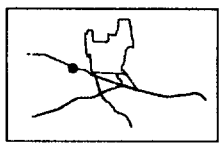


*18*_TIC108

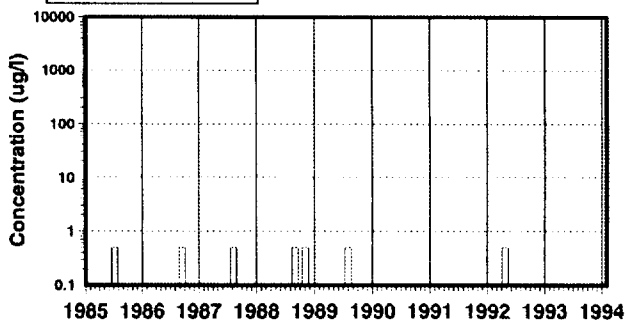
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



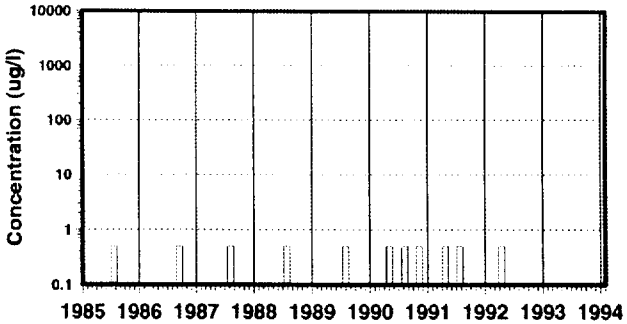

*Sat May 1 21:59:24 1993*

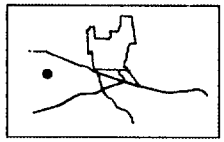
## ETHYLBENZENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

### 18_TIC111

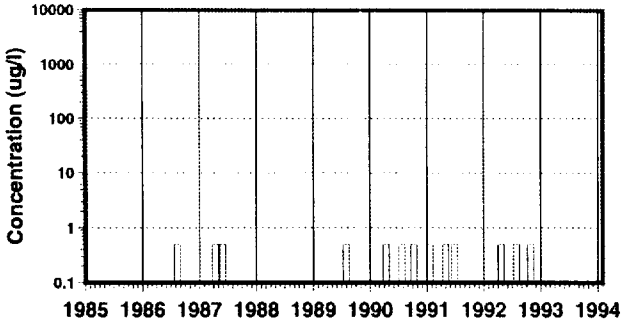
SAMPLING DEPTH (ft bgs)=(750)

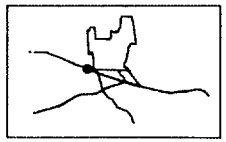


### 18_TIC113

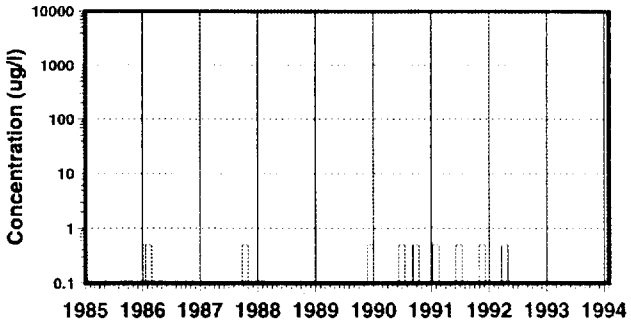
SAMPLING DEPTH (ft bgs)=(280-1080)

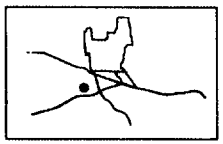


### 18_TIC117

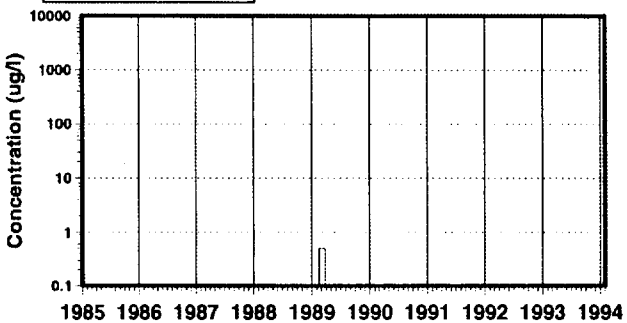
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



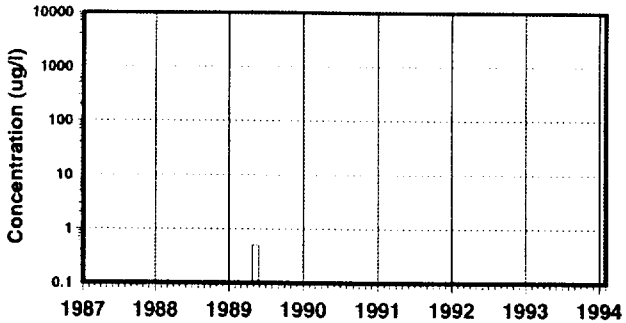
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*ETHYLBENZENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

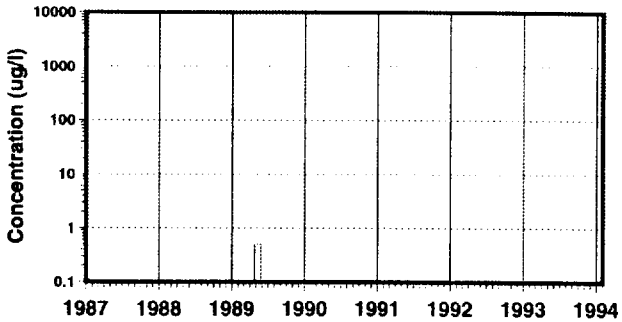
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

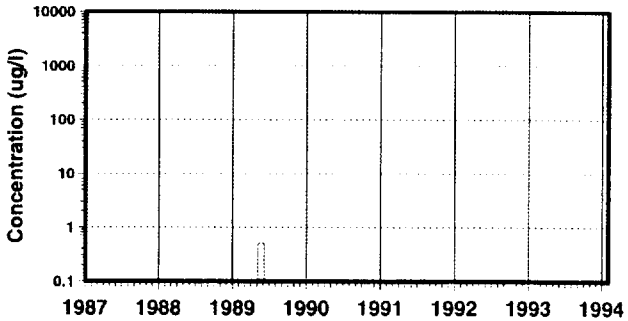
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

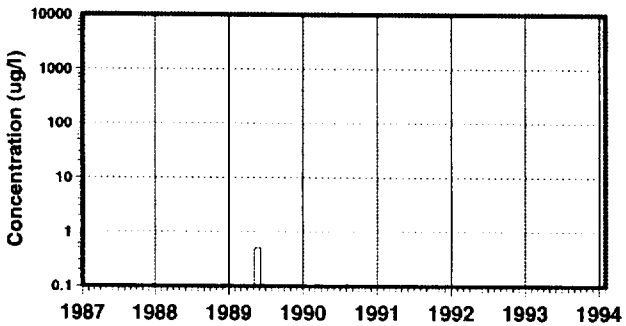
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

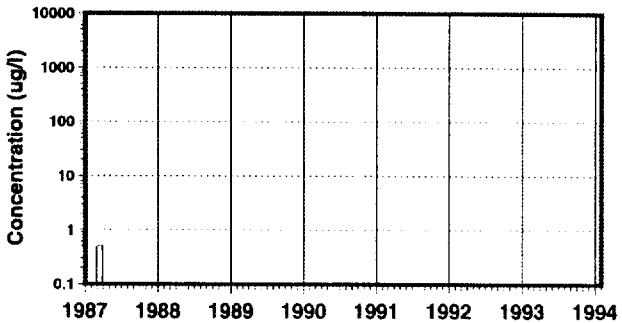
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

*NO X,Y DATA*

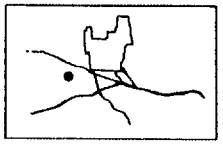
SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 22:02:01 1993*

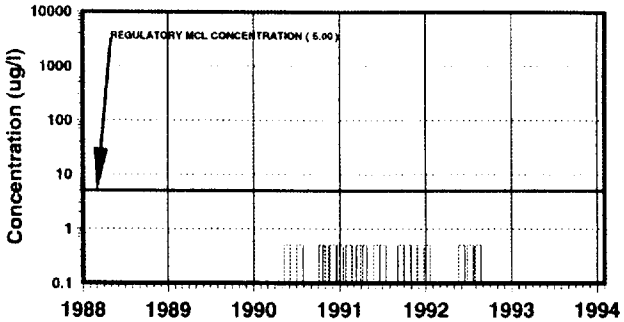
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

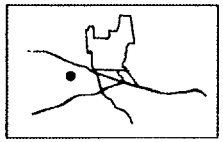
*TETRACHLOROETHENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

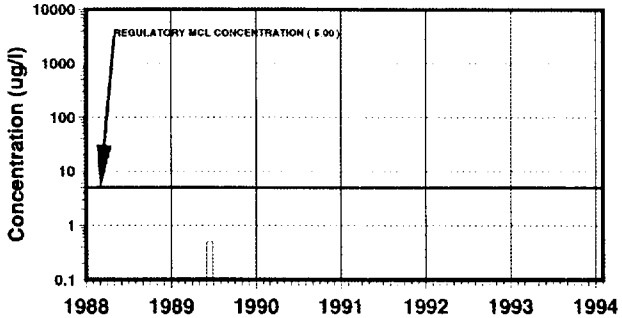
SAMPLING DEPTH (ft bgs)=(220-490)

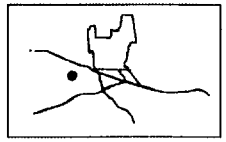


*18*_ET1

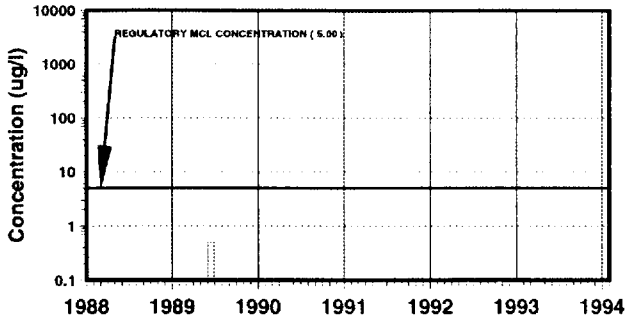
SAMPLING DEPTH (ft bgs)=(200)

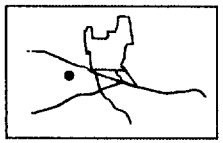


*18*_ET1

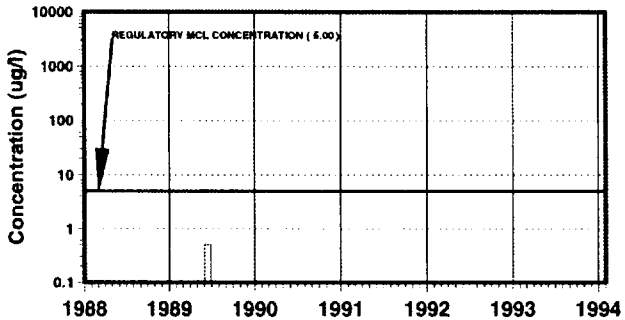
SAMPLING DEPTH (ft bgs)=(300)

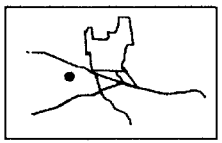


*18*_ET1

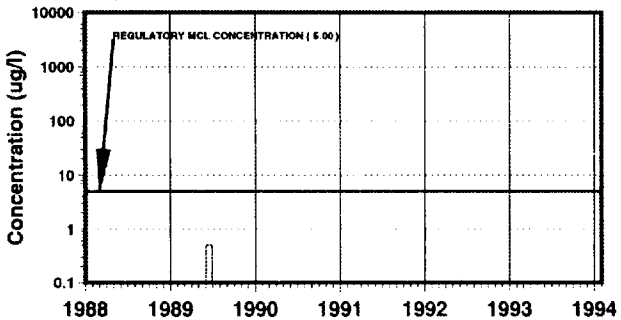
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

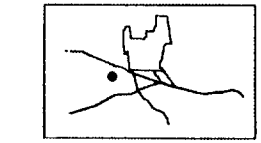
SAMPLING DEPTH (ft bgs)=(440)




*Sat May 1 02:22:47 1993*

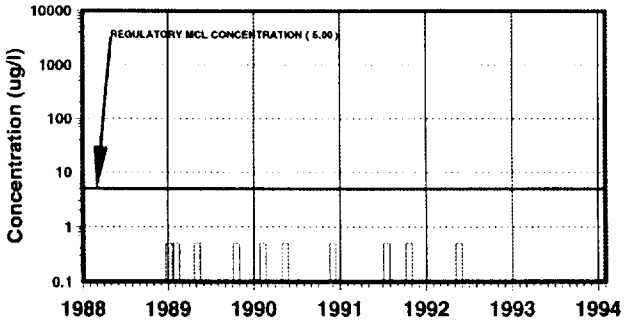
## TETRACHLOROETHENE Concentration

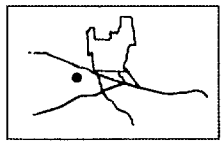
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

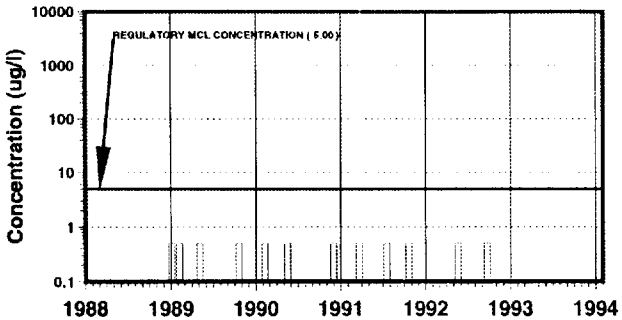
SAMPLING DEPTH (ft bgs)=(65)

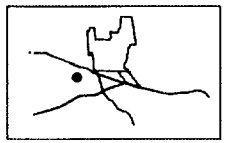


18_MCAS01

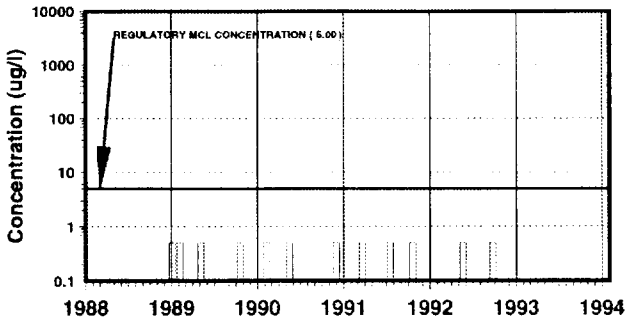
SAMPLING DEPTH (ft bgs)=(155)

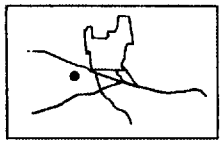


18_MCAS01

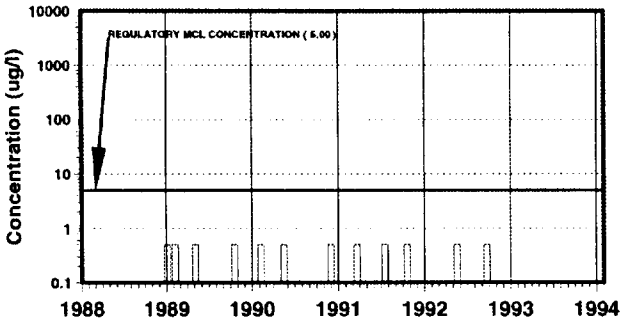
SAMPLING DEPTH (ft bgs)=(215)

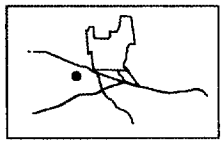


18_MCAS01

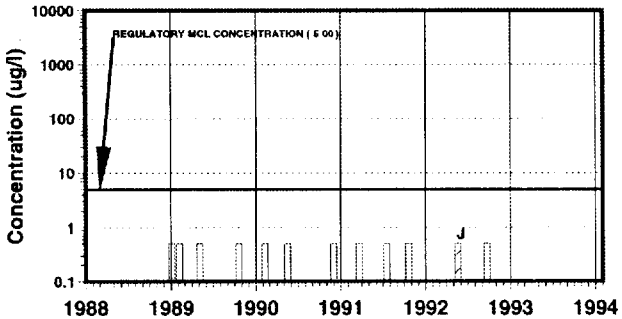
SAMPLING DEPTH (ft bgs)=(275)

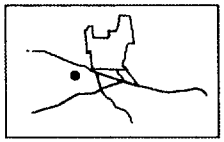


18_MCAS01

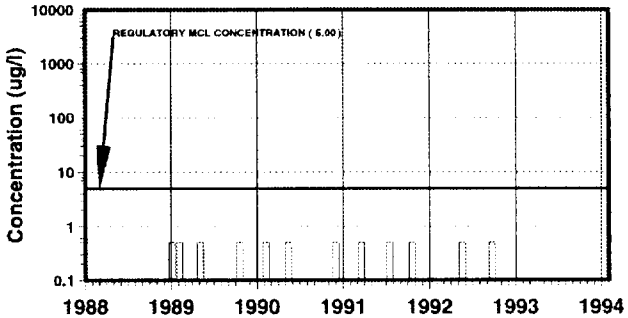
SAMPLING DEPTH (ft bgs)=(335)

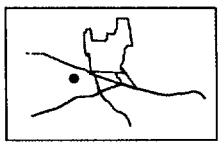


18_MCAS01

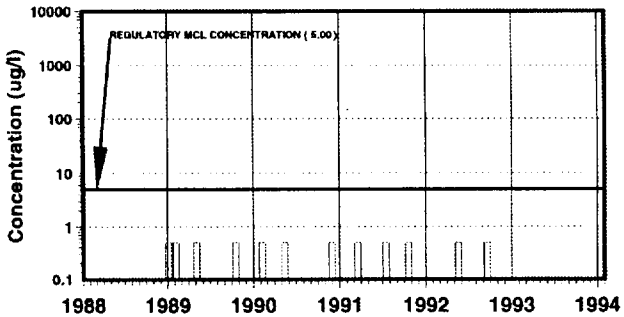
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

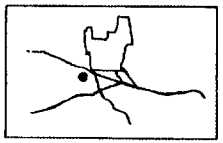
SAMPLING DEPTH (ft bgs)=(545)




Sat May 1 02:23:57 1993

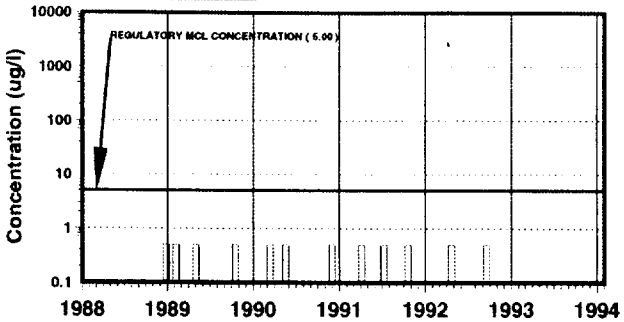
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

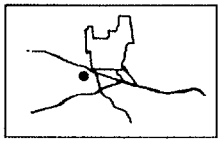
*TETRACHLOROETHENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

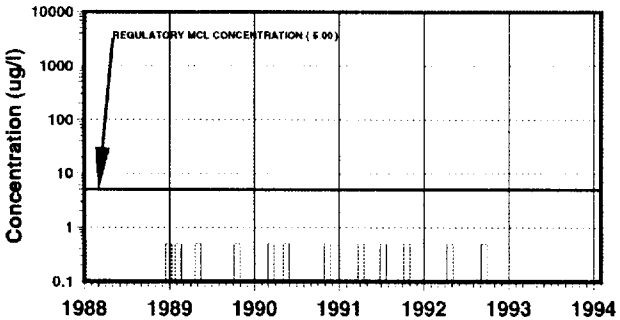
SAMPLING DEPTH (ft bgs)=(45)

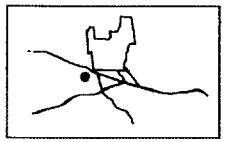


*18*_MCAS02

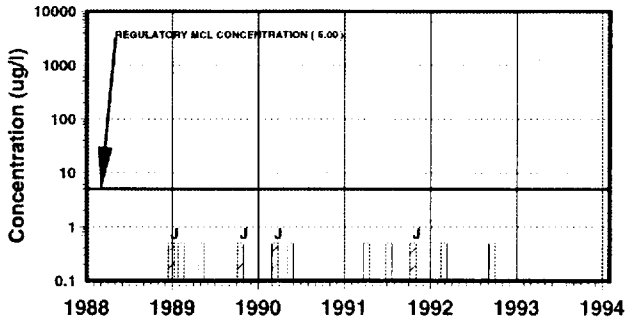
SAMPLING DEPTH (ft bgs)=(135)

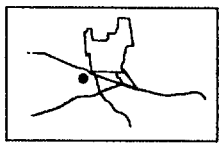


*18*_MCAS02

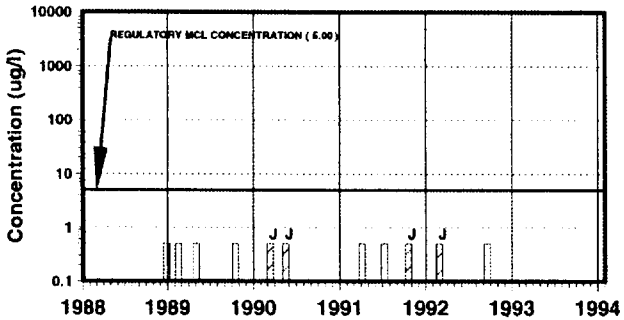
SAMPLING DEPTH (ft bgs)=(205)

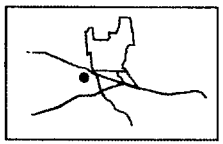


*18*_MCAS02

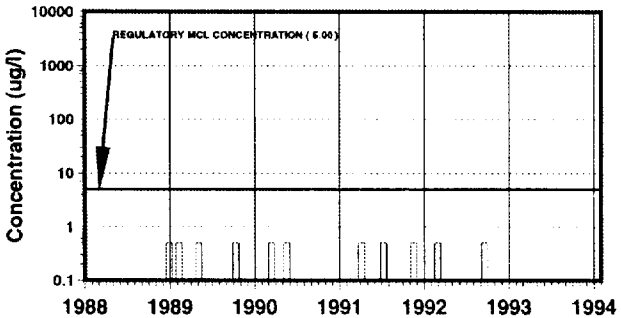
SAMPLING DEPTH (ft bgs)=(375)

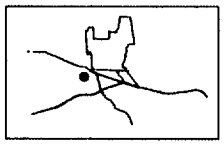


*18*_MCAS02

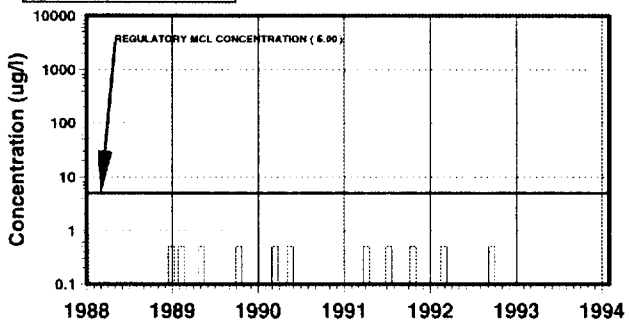
SAMPLING DEPTH (ft bgs)=(425)

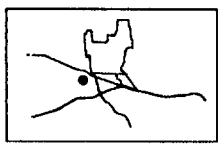


*18*_MCAS02

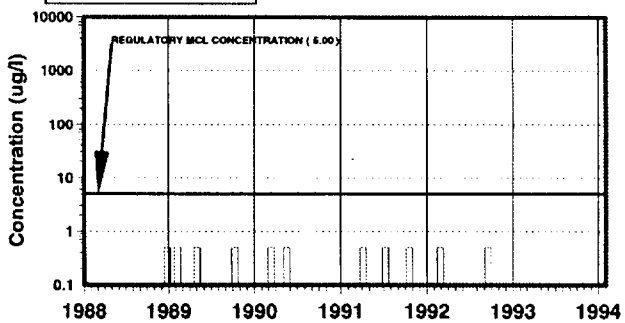
SAMPLING DEPTH (ft bgs)=(495)

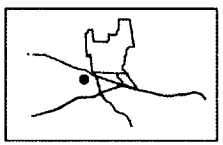


*18*_MCAS02

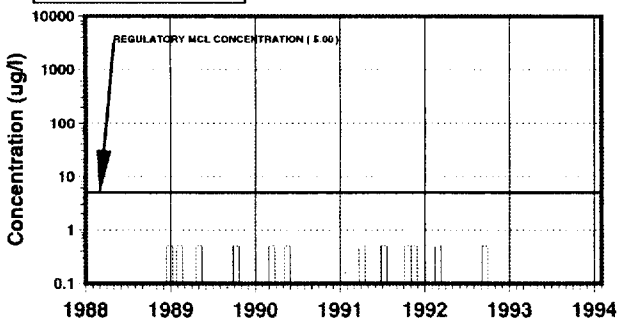
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

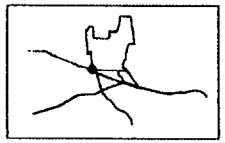
SAMPLING DEPTH (ft bgs)=(625)




*Sat May 1 02:25:29 1993*

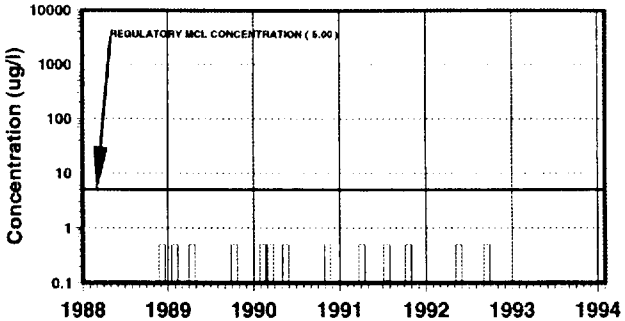
## TETRACHLOROETHENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



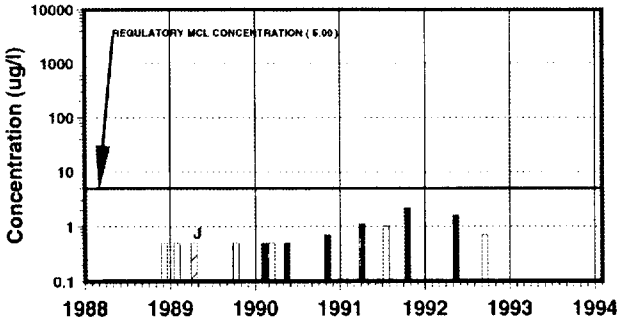
18_MCAS03

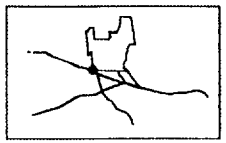
SAMPLING DEPTH (ft bgs)=(90)



18_MCAS03

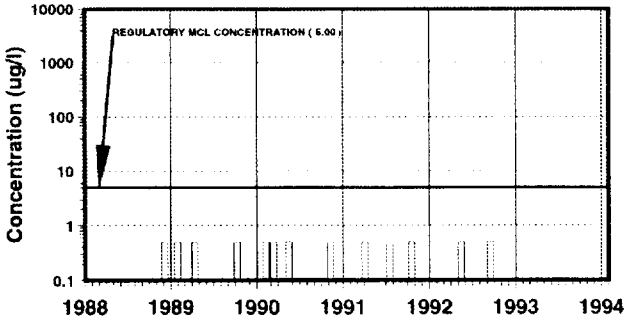
SAMPLING DEPTH (ft bgs)=(165)



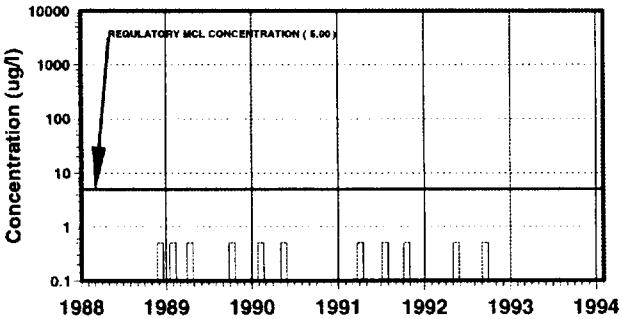
18_MCAS03

SAMPLING DEPTH (ft bgs)=(225)



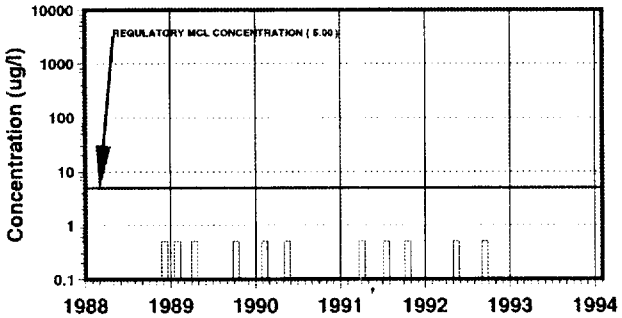
18_MCAS03

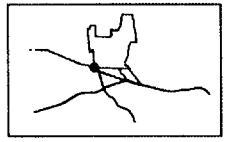
SAMPLING DEPTH (ft bgs)=(345)



18_MCAS03

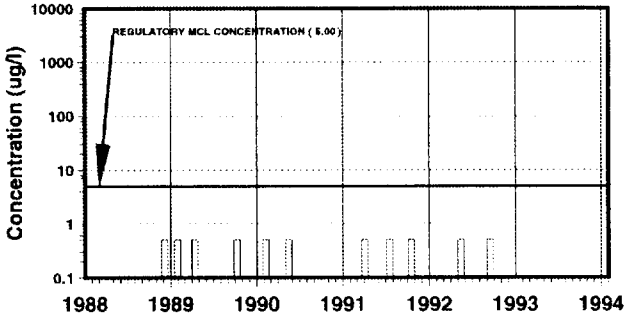
SAMPLING DEPTH (ft bgs)=(425)



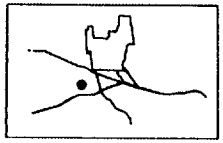
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



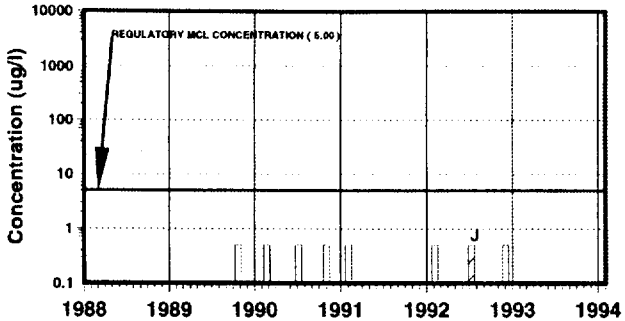
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

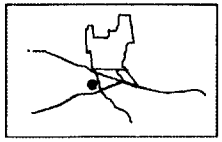
*TETRACHLOROETHENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

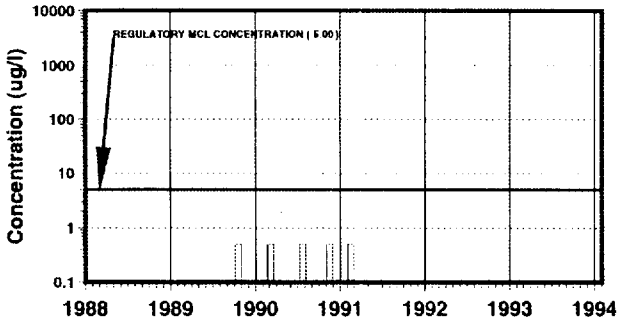
SAMPLING DEPTH (ft bgs)=(181-238)

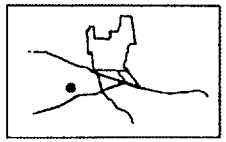


*18*_MCAS05

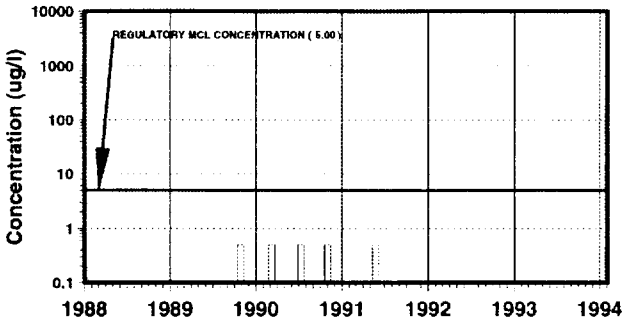
SAMPLING DEPTH (ft bgs)=(142-148)

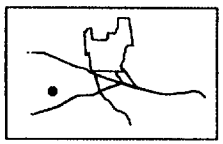


*18*_MCAS06

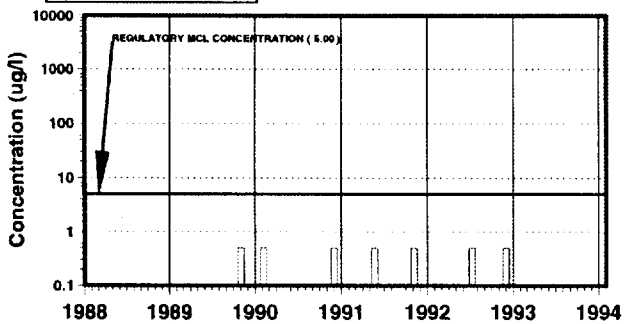
SAMPLING DEPTH (ft bgs)=(167-222)

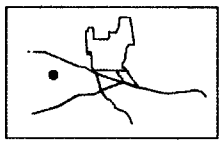


*18*_MCAS08

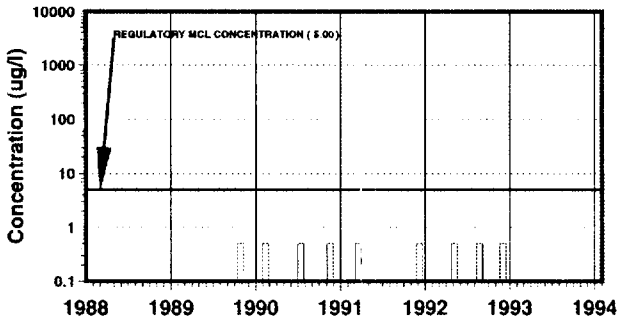
SAMPLING DEPTH (ft bgs)=(392-410)

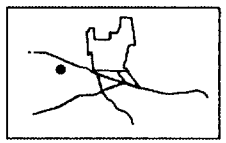


*18*_MCAS09

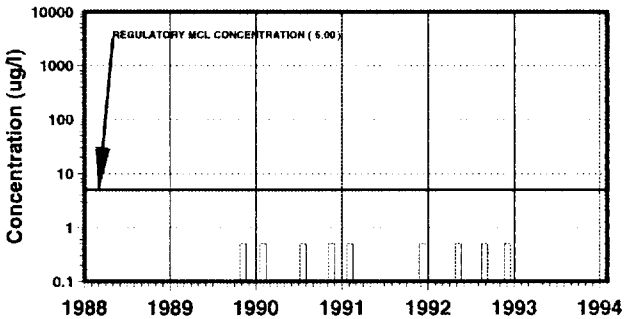
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

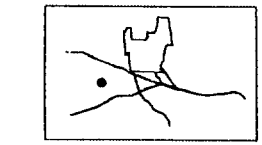
SAMPLING DEPTH (ft bgs)=(355-375)




*Sat May 1 02:28:32 1993*

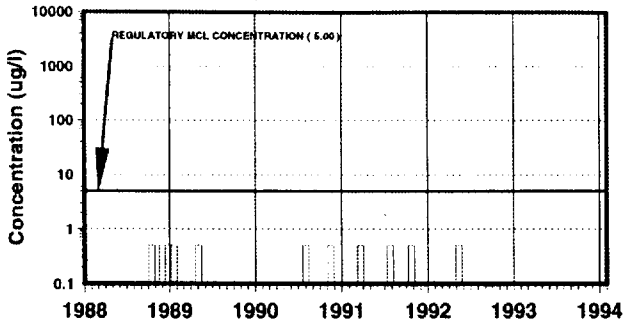
## TETRACHLOROETHENE Concentration

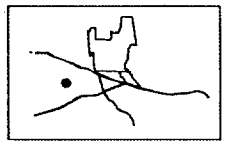
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

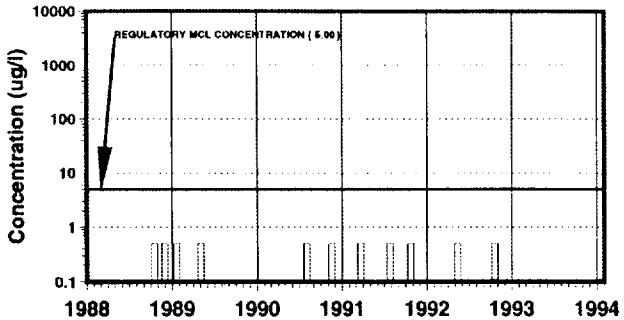
SAMPLING DEPTH (ft bgs)=(94)

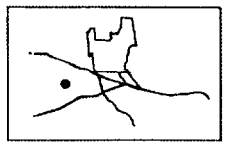


18_MCAS07

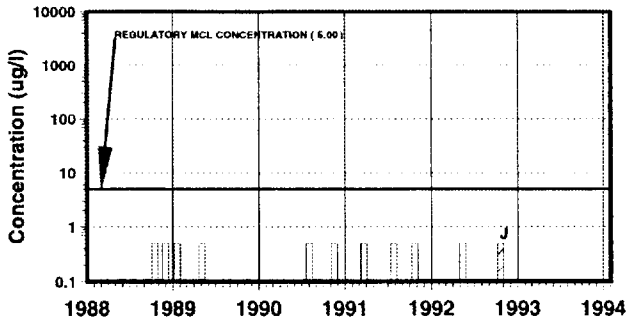
SAMPLING DEPTH (ft bgs)=(194)

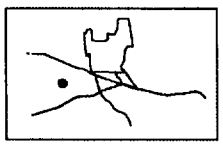


18_MCAS07

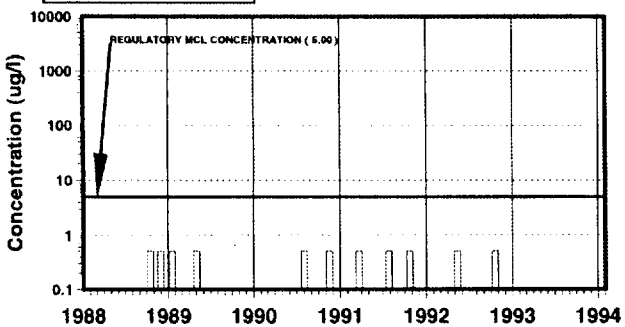
SAMPLING DEPTH (ft bgs)=(354)

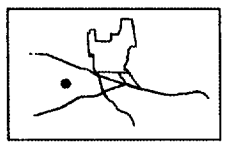


18_MCAS07

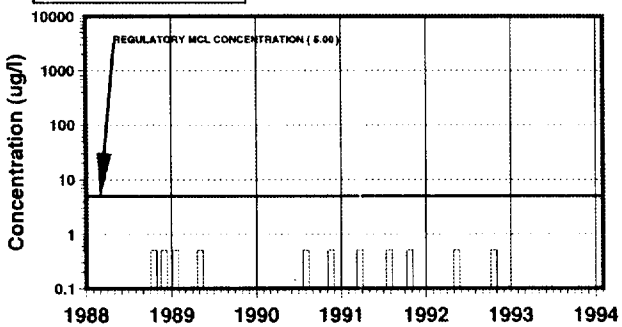
SAMPLING DEPTH (ft bgs)=(444)

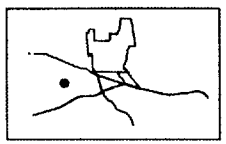


18_MCAS07

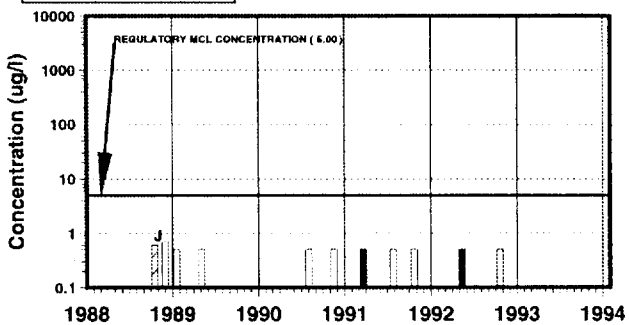
SAMPLING DEPTH (ft bgs)=(514)

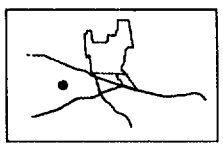


18_MCAS07

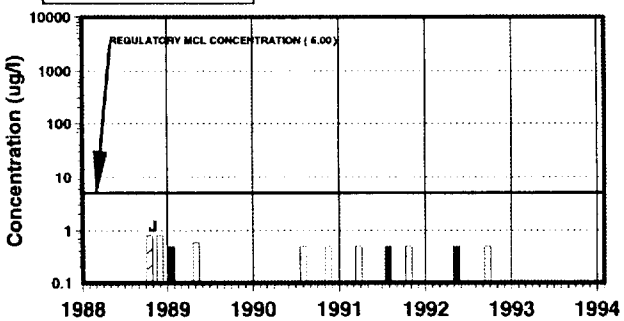
SAMPLING DEPTH (ft bgs)=(804)

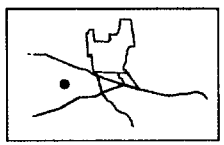


18_MCAS07

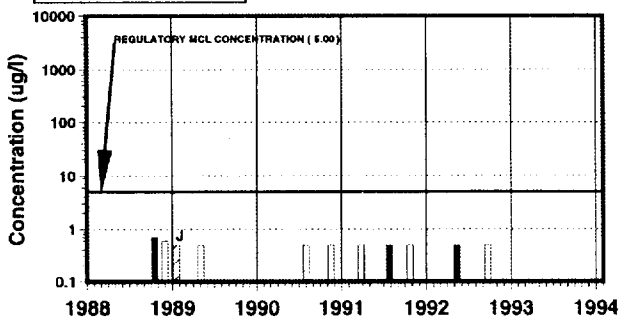
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 18:20:27 1993

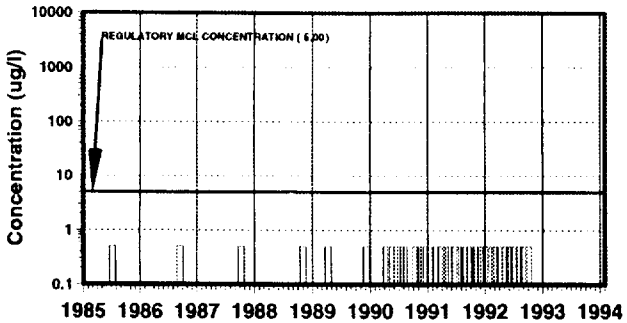
## *TETRACHLOROETHENE Concentration*

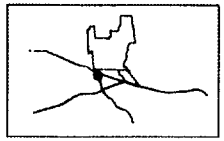
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

*NO X,Y DATA*

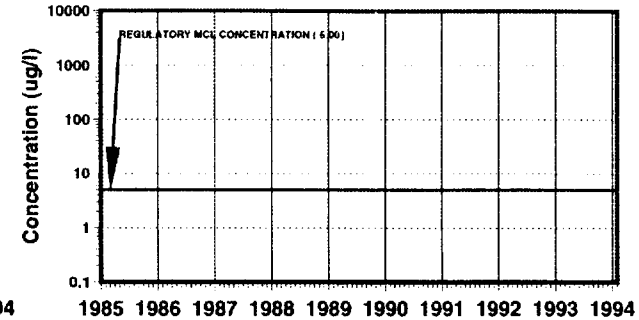
SAMPLING DEPTH (ft bgs)=(370-890)



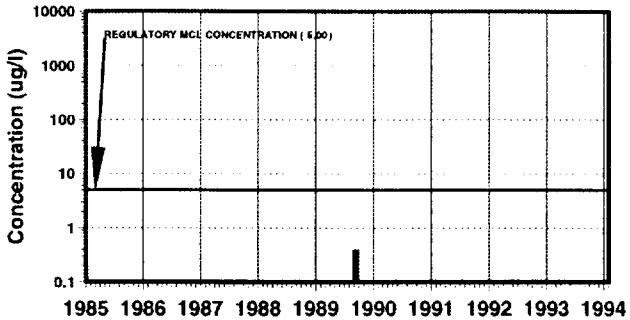
### *18*_RW3

SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

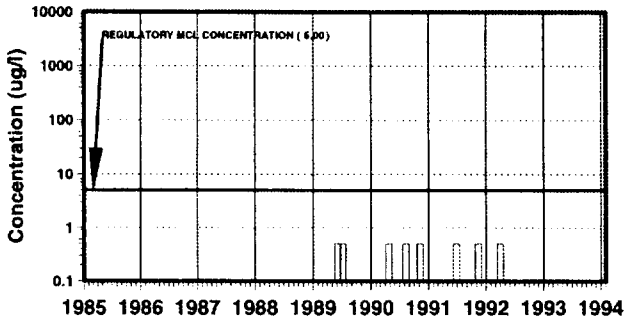
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

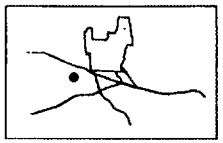
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(210)



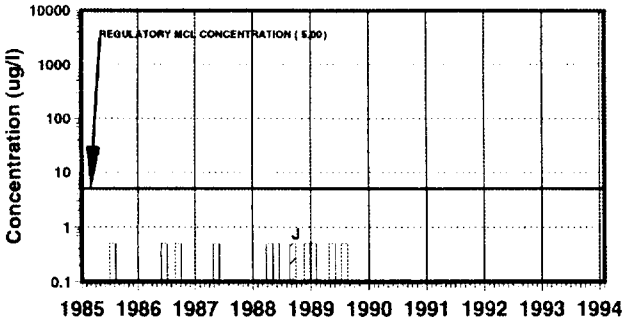
## TETRACHLOROETHENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



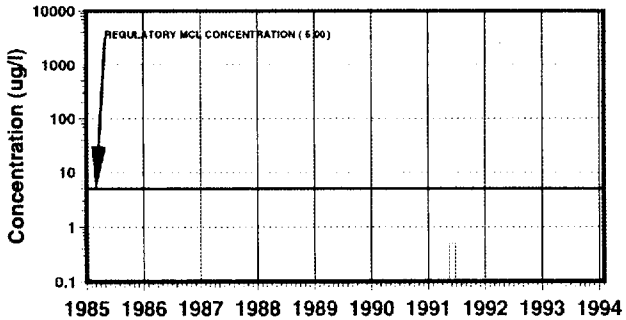
### 18_TIC035

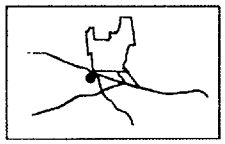
SAMPLING DEPTH (ft bgs)=(263-1503)



### 18_TIC037

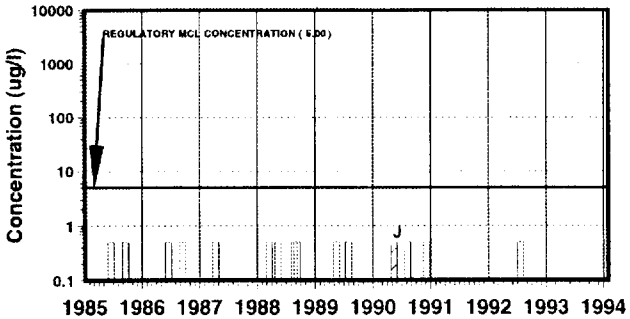
SAMPLING DEPTH (ft bgs)=(255-1560)

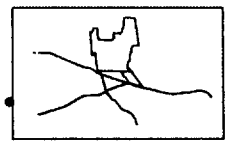


### 18_TIC047

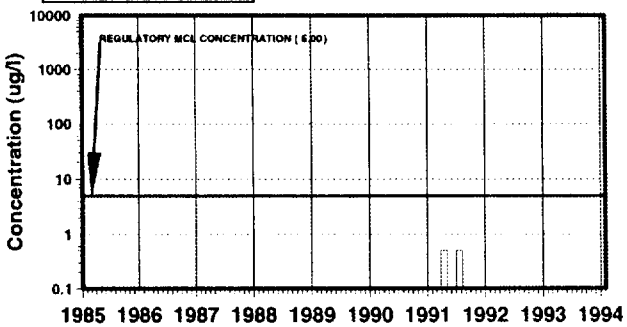
SAMPLING DEPTH (ft bgs)=(268-1107)

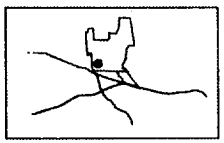


### 18_TIC051

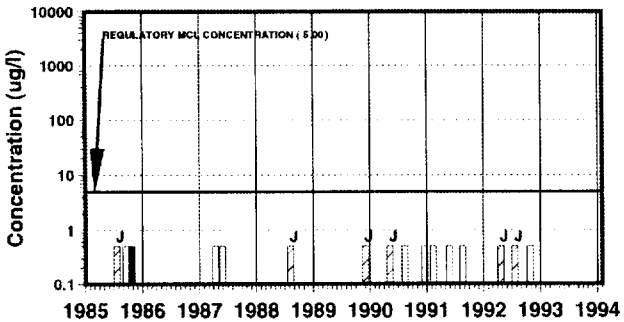
SAMPLING DEPTH (ft bgs)=(220-740)

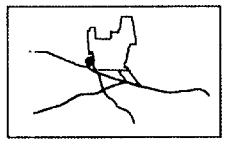


### 18_TIC055

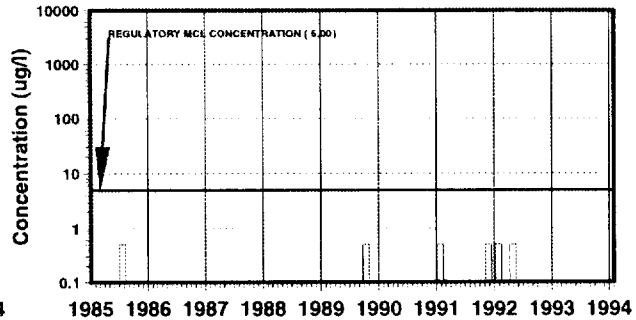
SAMPLING DEPTH (ft bgs)=(496)

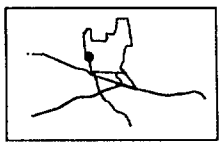


### 18_TIC056

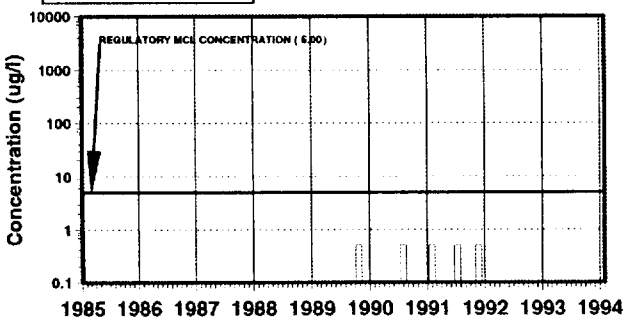
SAMPLING DEPTH (ft bgs)=(336-647)

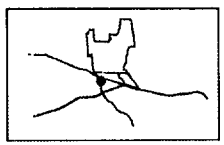


### 18_TIC061

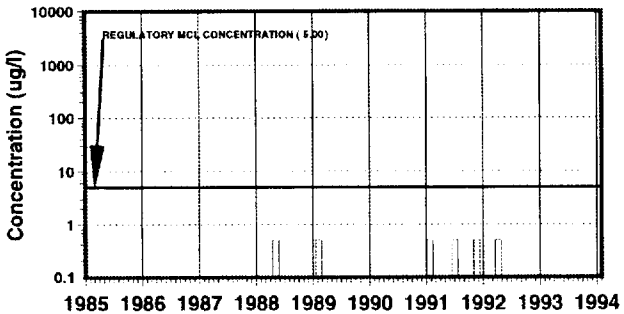
SAMPLING DEPTH (ft bgs)=(248-694)

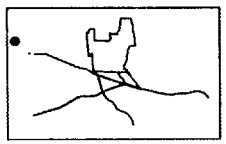


### 18_TIC068

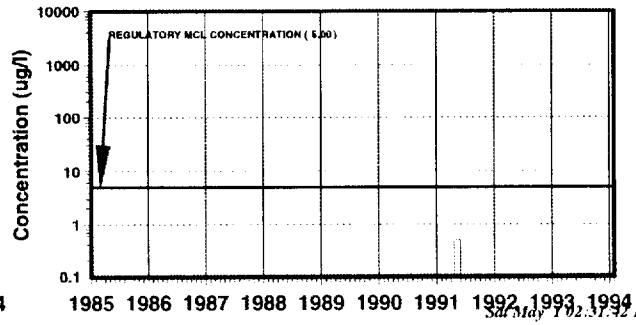
SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

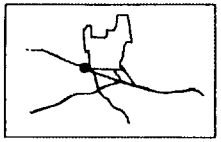
SAMPLING DEPTH (ft bgs)=(274-403)




Sat May 1 02:37:42 1993

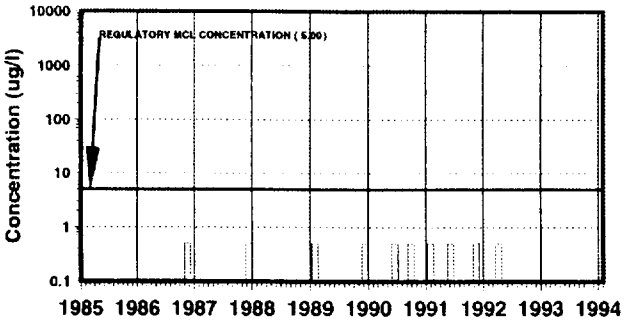
# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## TETRACHLOROETHENE Concentration

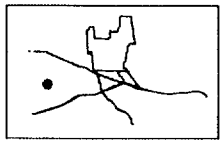
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

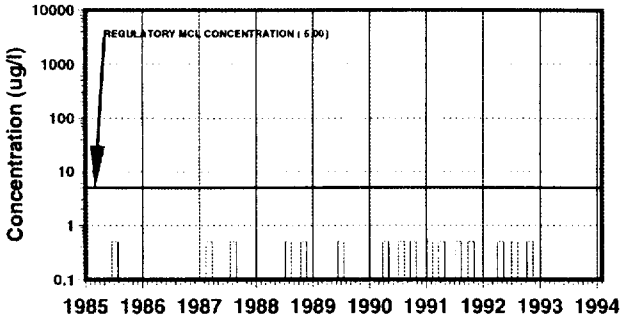
SAMPLING DEPTH (ft bgs)=(210-280)



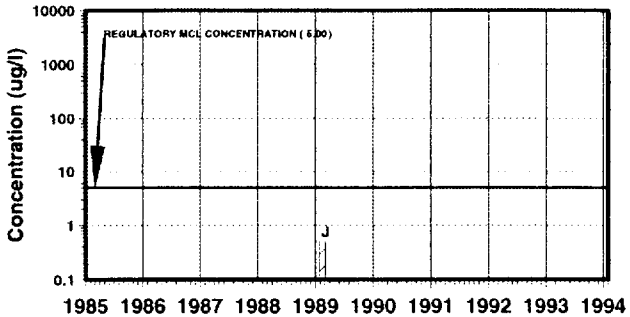
*18*_TIC078

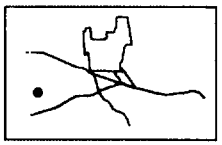
SAMPLING DEPTH (ft bgs)=(410-690)



*18*_TIC083

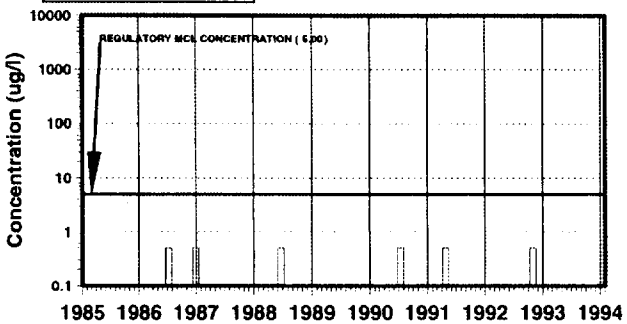
SAMPLING DEPTH (ft bgs)=(261-402)

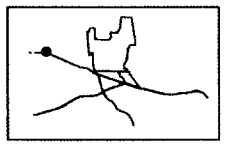


*18*_TIC106

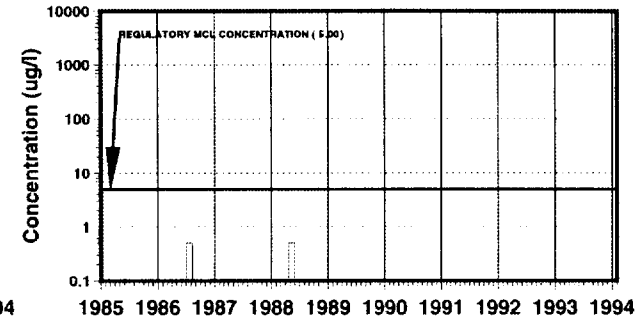
SAMPLING DEPTH (ft bgs)=(405-715)

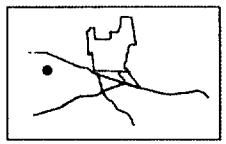


*18*_TIC107

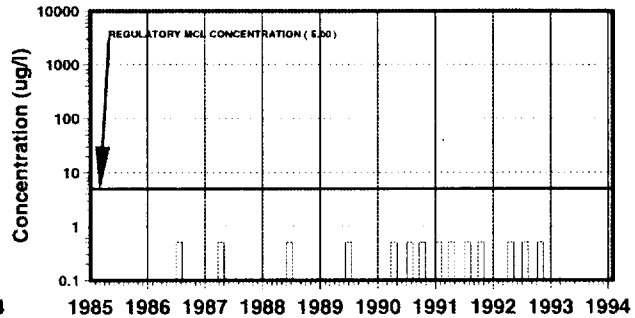
SAMPLING DEPTH (ft bgs)=(230-980)



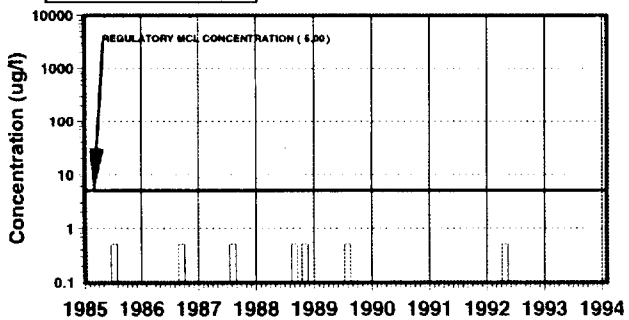
*18*_TIC108

SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

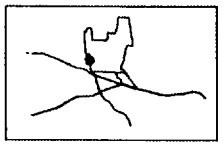
SAMPLING DEPTH (ft bgs)=(182-1030)




*Sat May 1 02:33:36 1993*

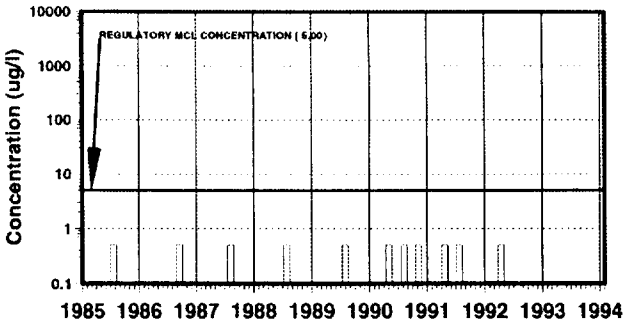
## *TETRACHLOROETHENE Concentration*

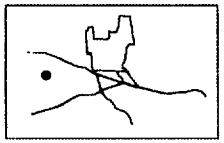
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



### *18*_TIC111

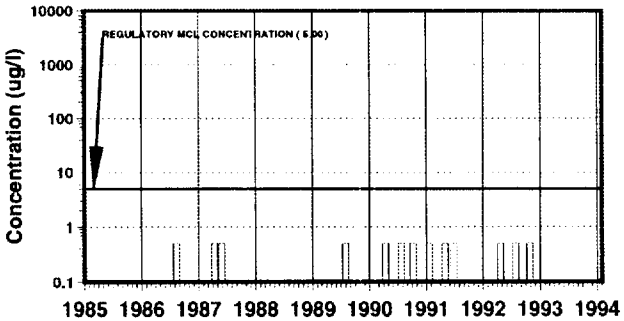
SAMPLING DEPTH (ft bgs)=(750)

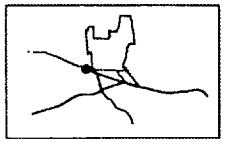


### *18*_TIC113

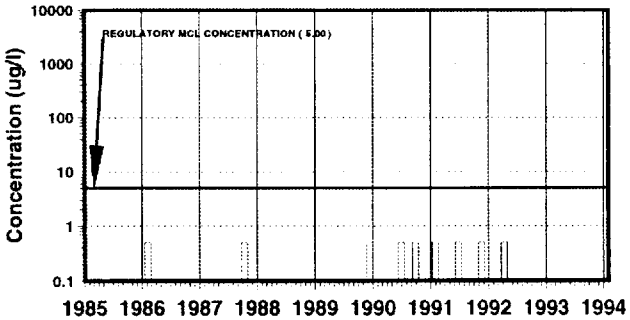
SAMPLING DEPTH (ft bgs)=(280-1080)

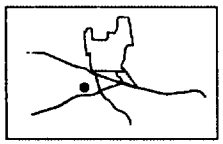


### *18*_TIC117

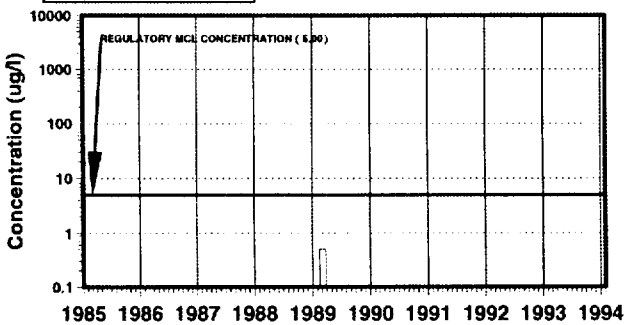
SAMPLING DEPTH (ft bgs)=(360-635)



### *18*_TIC127

SAMPLING DEPTH (ft bgs)=(100)




*Sat May 1 18:22:57 1993*

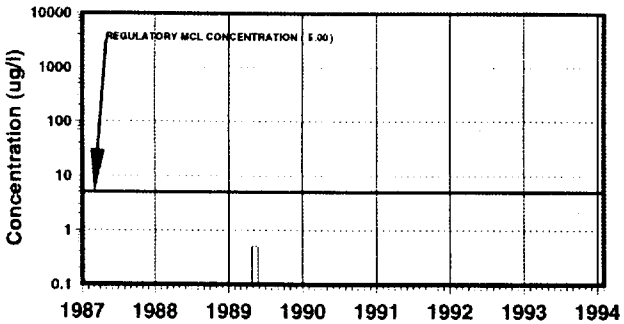
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*TETRACHLOROETHENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

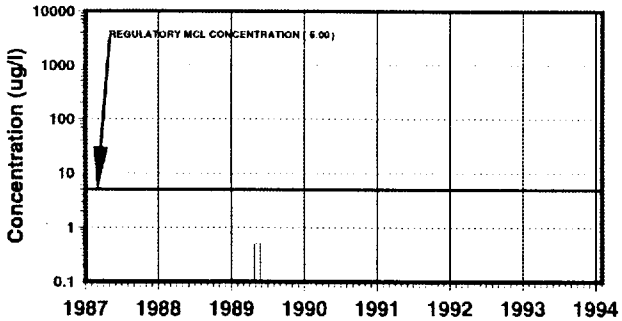
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

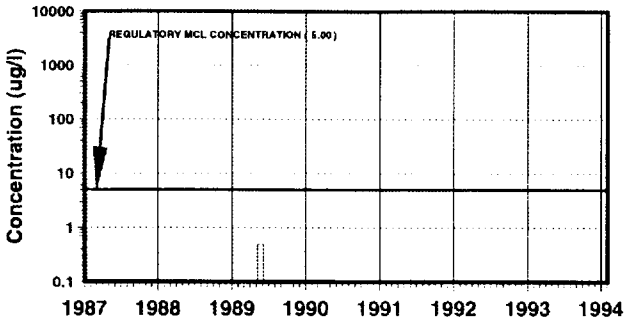
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

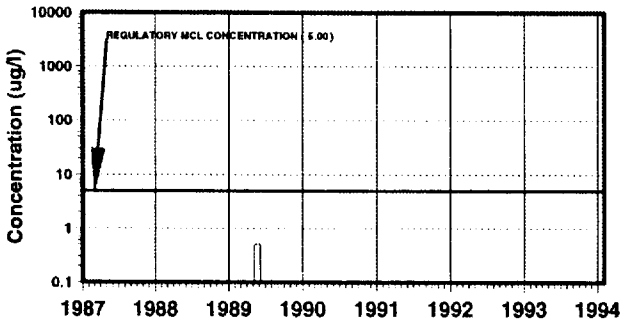
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

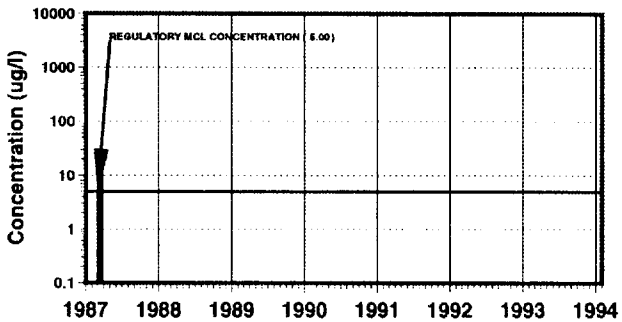
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

*NO X,Y DATA*

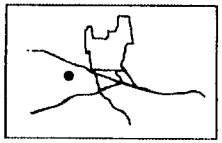
SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 18:23:58 1993*

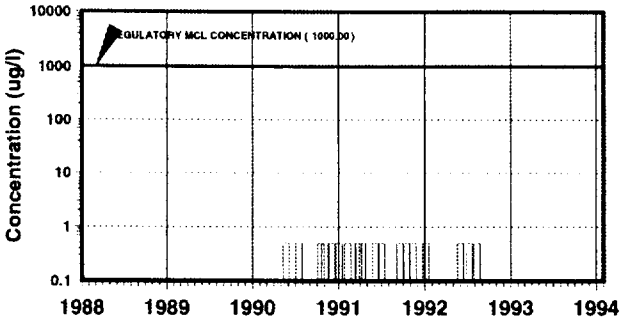
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

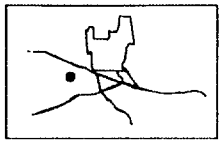
*TOLUENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

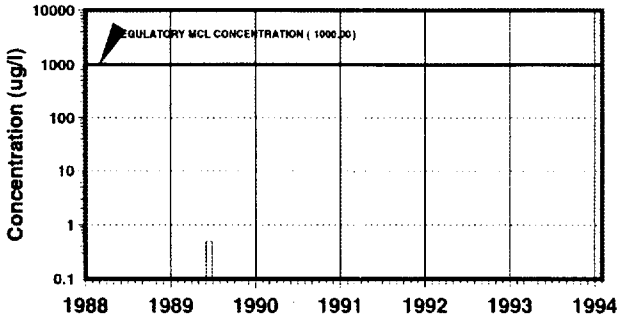
SAMPLING DEPTH (ft bgs)=(220-490)

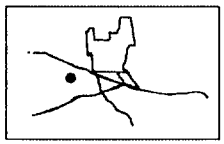


*18*_ET1

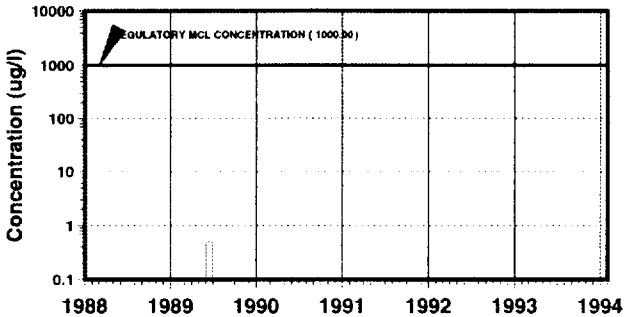
SAMPLING DEPTH (ft bgs)=(200)

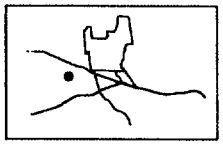


*18*_ET1

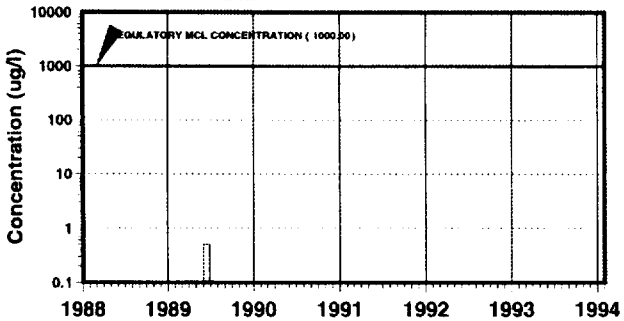
SAMPLING DEPTH (ft bgs)=(300)

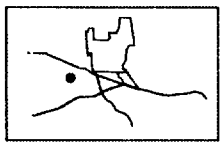


*18*_ET1

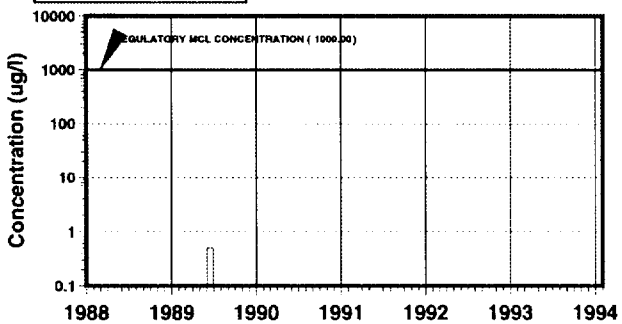
SAMPLING DEPTH (ft bgs)=(390)



*18*_ET1

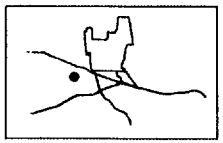
SAMPLING DEPTH (ft bgs)=(440)




*Sat May 1 03:18:27 1993*

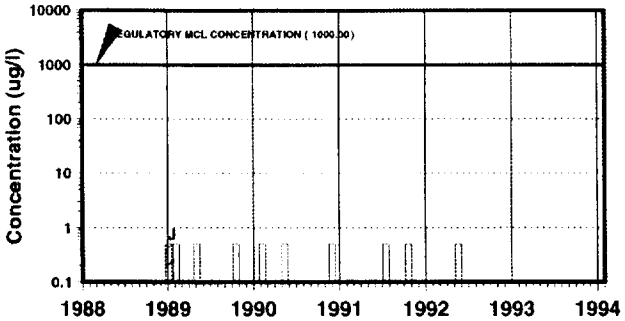
## TOLUENE Concentration

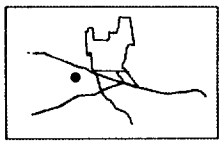
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

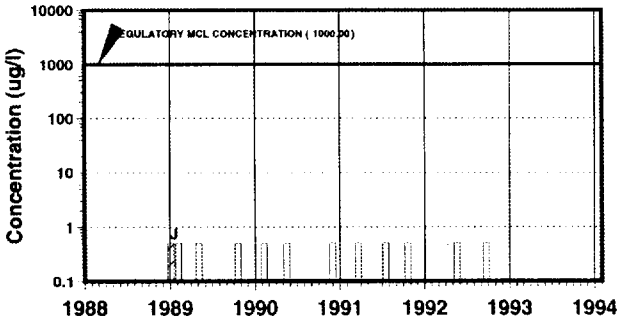
SAMPLING DEPTH (ft bgs)=(65)

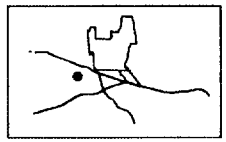


18_MCAS01

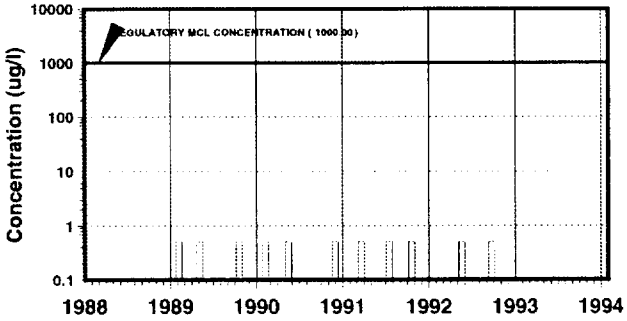
SAMPLING DEPTH (ft bgs)=(155)

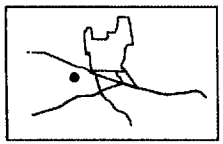


18_MCAS01

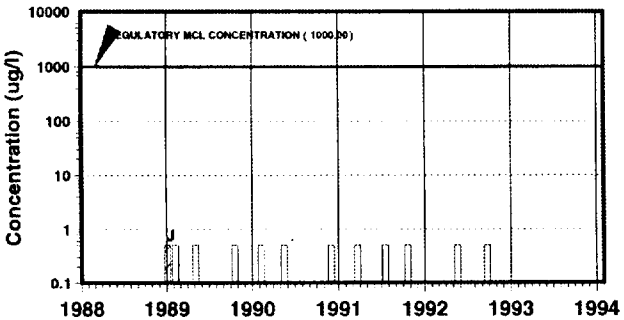
SAMPLING DEPTH (ft bgs)=(215)

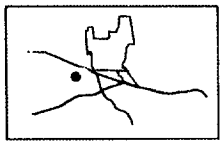


18_MCAS01

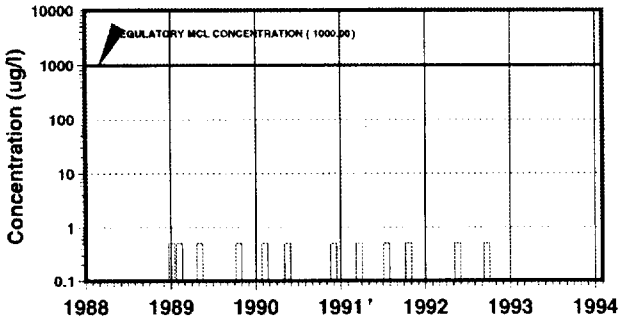
SAMPLING DEPTH (ft bgs)=(275)

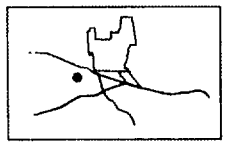


18_MCAS01

SAMPLING DEPTH (ft bgs)=(335)



18_MCAS01

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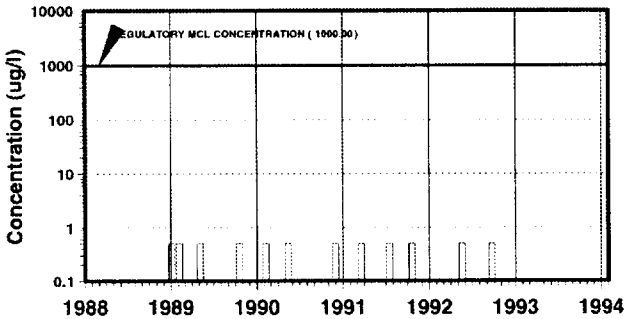
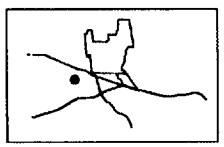
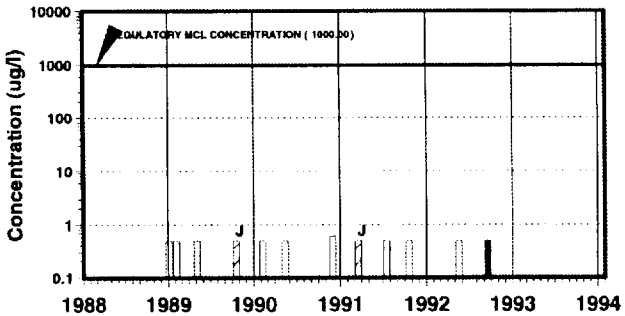


18_MCAS01

SAMPLING DEPTH (ft bgs)=(545)

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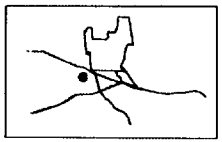
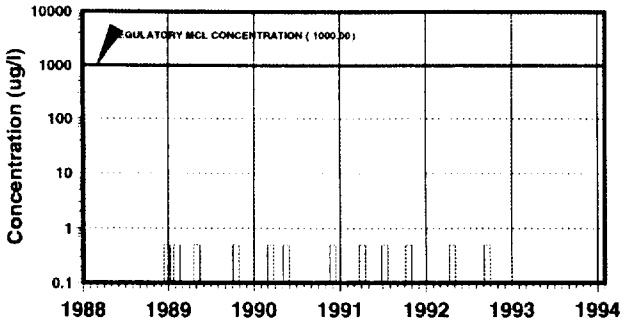
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

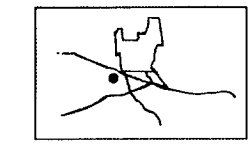
*TOLUENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

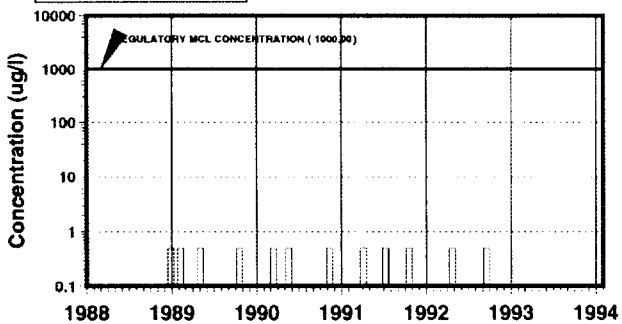
SAMPLING DEPTH (ft bgs)=(45)

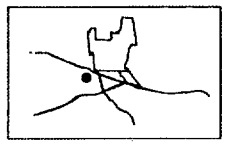


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(135)



*18*_MCAS02

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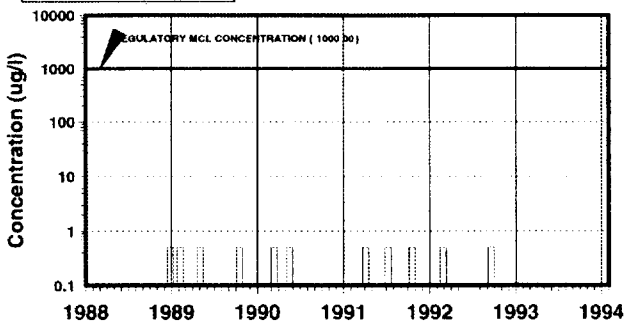


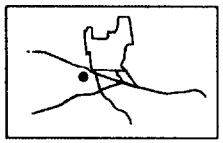

*18*_MCAS02

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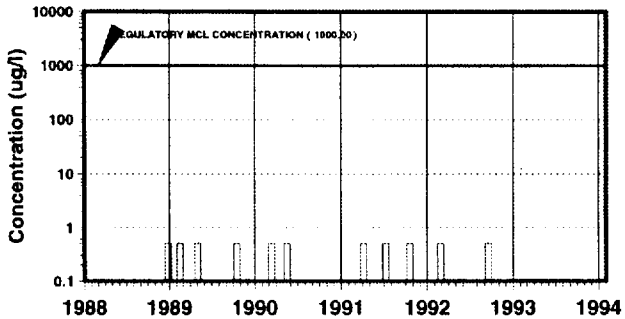
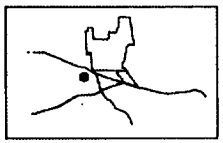
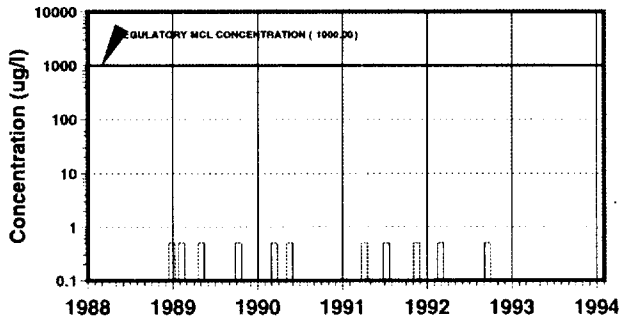
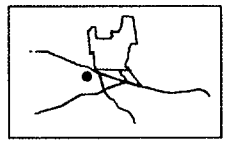


*18*_MCAS02

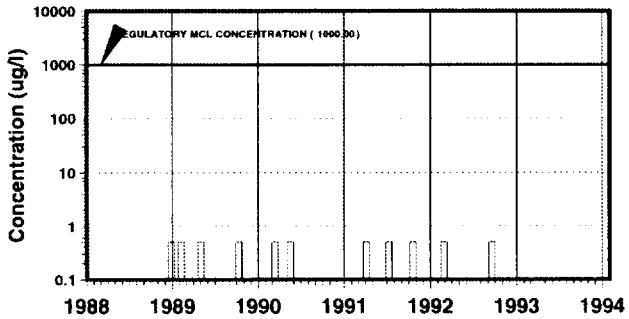
SAMPLING DEPTH (ft bgs)=(425)

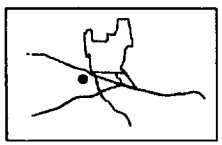


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(495)



*18*_MCAS02

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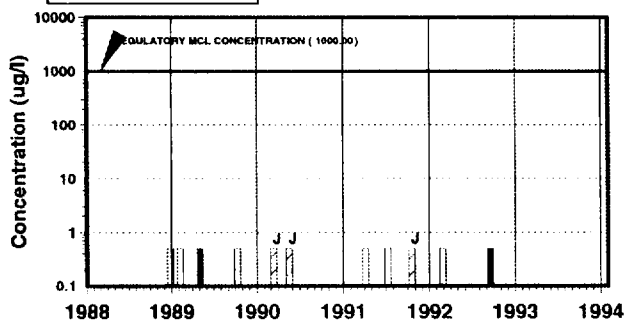


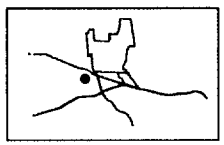

*18*_MCAS02

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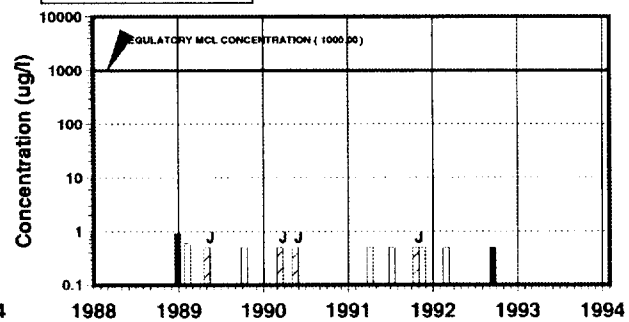
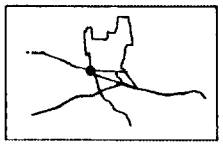



*Sat May 1 03:21:09 1993*

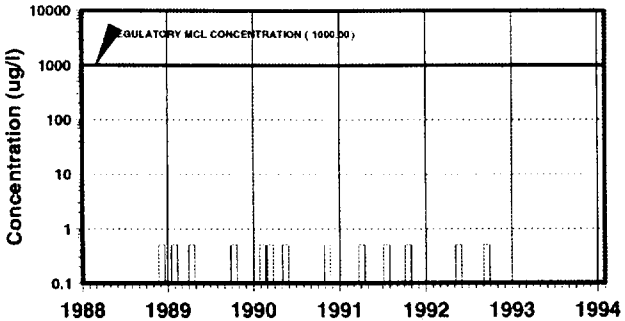
## TOLUENE Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



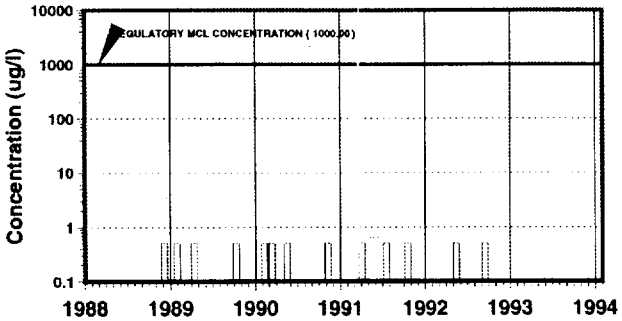
18_MCAS03

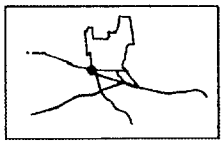
SAMPLING DEPTH (ft bgs)=(90)



18_MCAS03

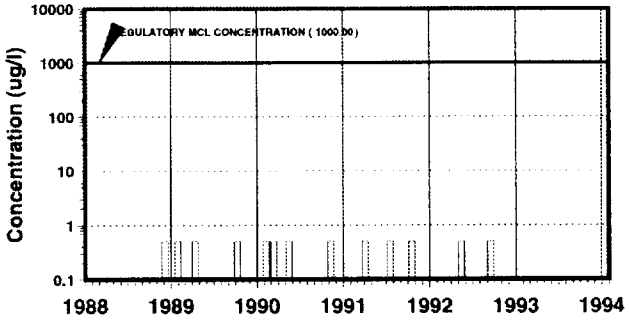
SAMPLING DEPTH (ft bgs)=(165)

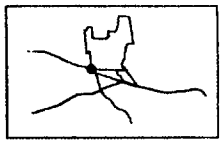


18_MCAS03

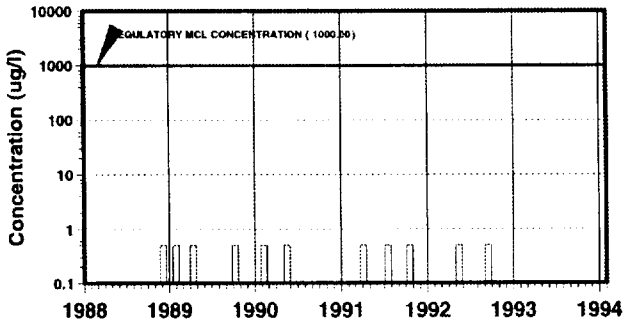
SAMPLING DEPTH (ft bgs)=(225)

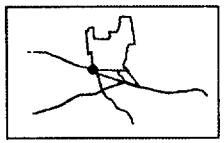


18_MCAS03

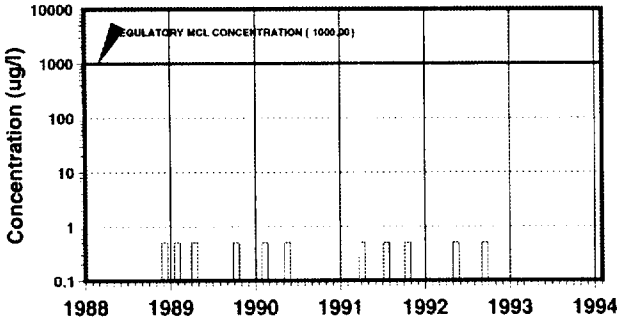
SAMPLING DEPTH (ft bgs)=(345)



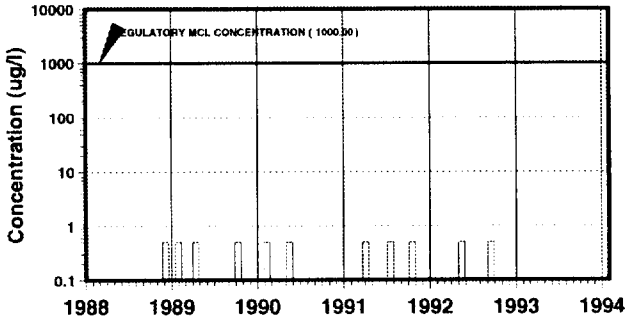
18_MCAS03

SAMPLING DEPTH (ft bgs)=(425)



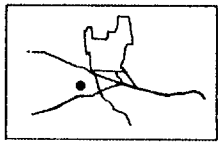
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



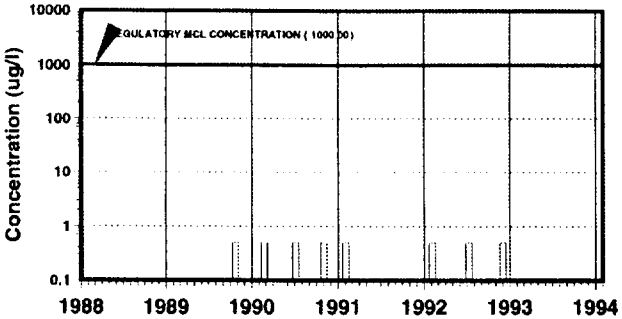
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

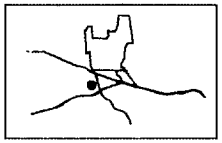
*TOLUENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

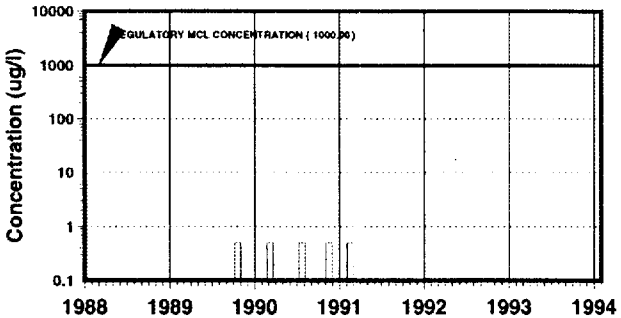
SAMPLING DEPTH (ft bgs)=(161-236)

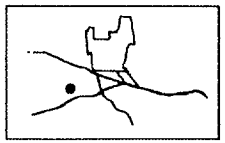


*18*_MCAS05

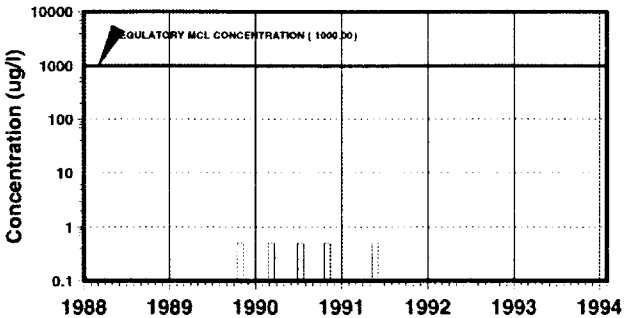
SAMPLING DEPTH (ft bgs)=(142-148)

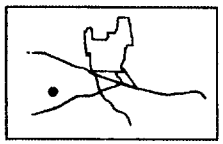


*18*_MCAS06

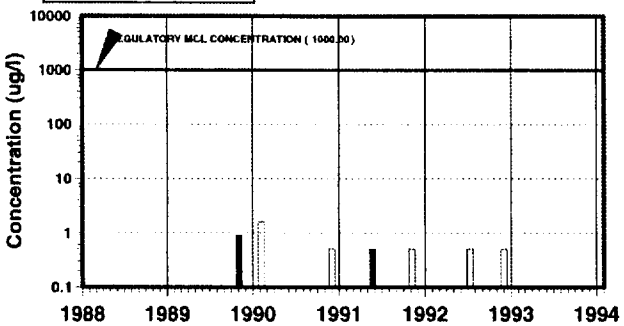
SAMPLING DEPTH (ft bgs)=(167-222)

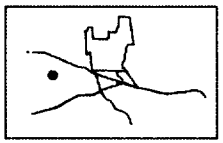


*18*_MCAS08

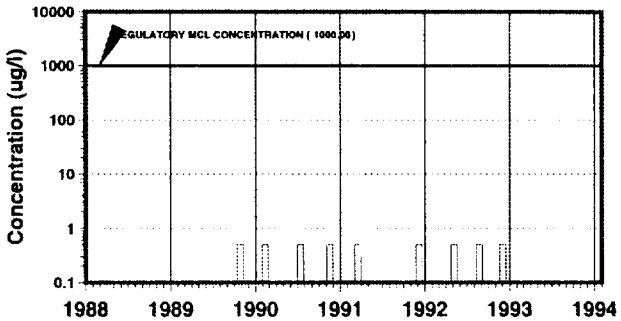
SAMPLING DEPTH (ft bgs)=(392-410)

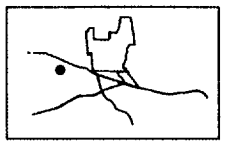


*18*_MCAS09

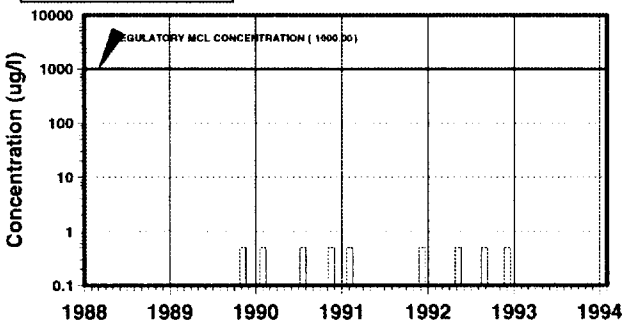
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

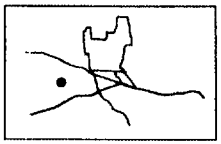
SAMPLING DEPTH (ft bgs)=(355-375)




*Sat May 1 18:24:27 1993*

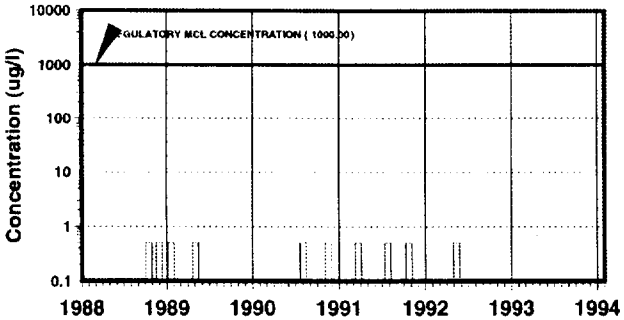
## TOLUENE Concentration

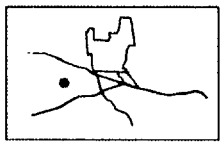
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

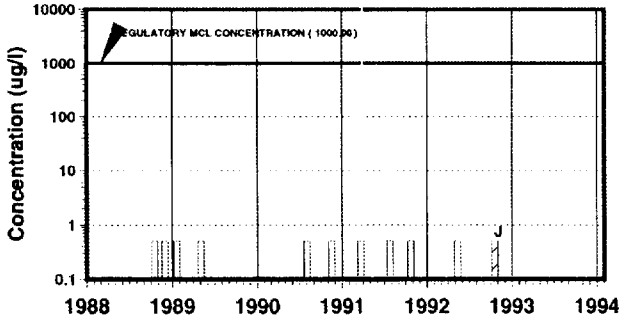
SAMPLING DEPTH (ft bgs)=(94)

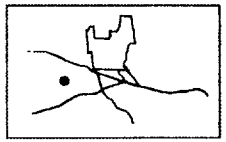


18_MCAS07

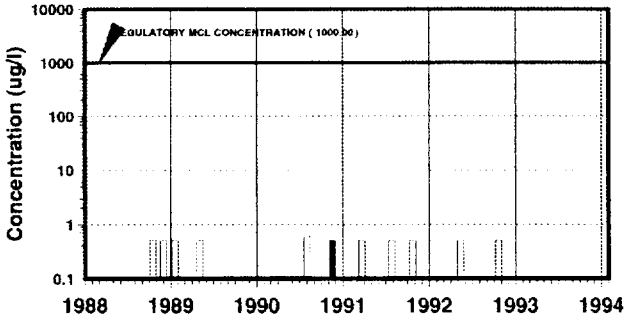
SAMPLING DEPTH (ft bgs)=(194)

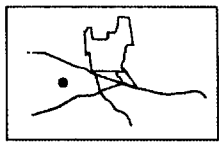


18_MCAS07

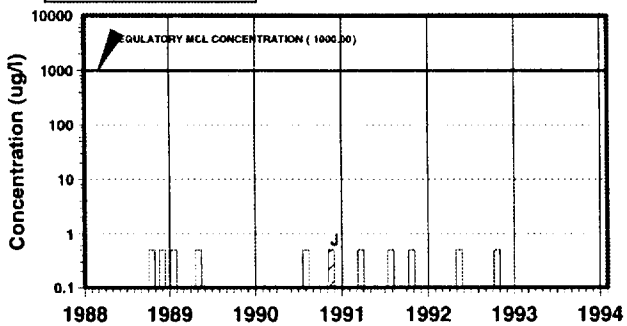
SAMPLING DEPTH (ft bgs)=(354)

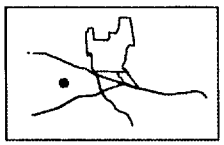


18_MCAS07

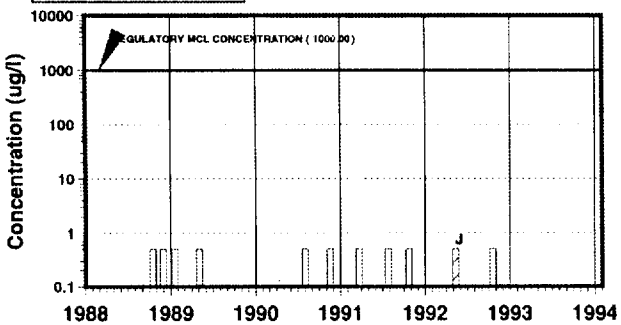
SAMPLING DEPTH (ft bgs)=(444)

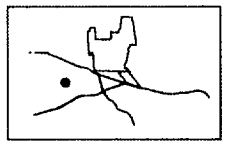


18_MCAS07

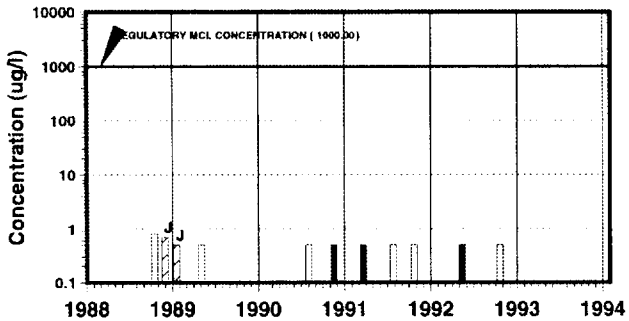
SAMPLING DEPTH (ft bgs)=(514)

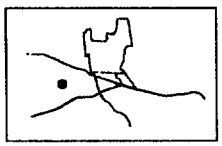


18_MCAS07

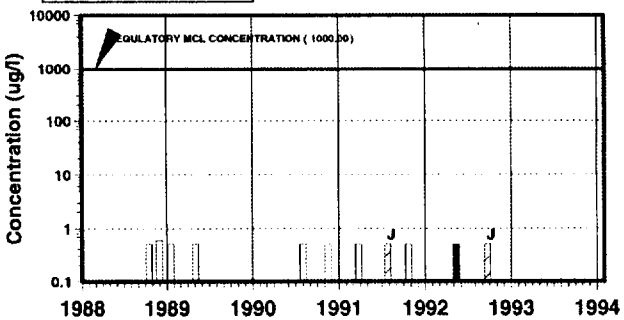
SAMPLING DEPTH (ft bgs)=(804)

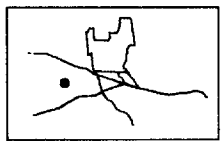


18_MCAS07

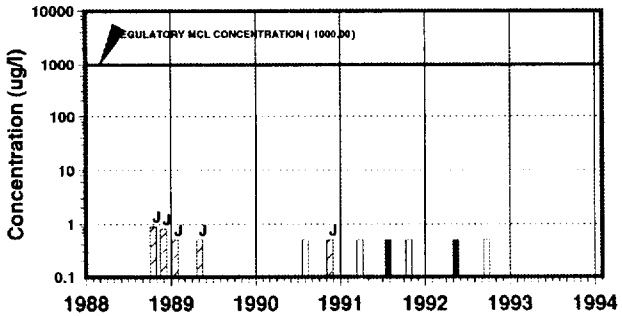
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)

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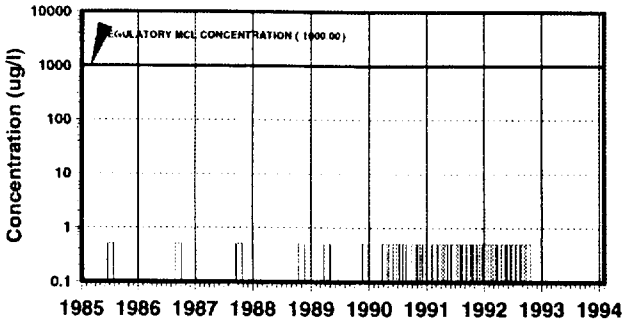
## *TOLUENE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

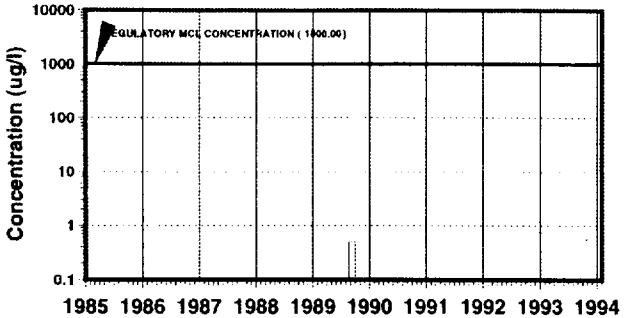
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(370-890)



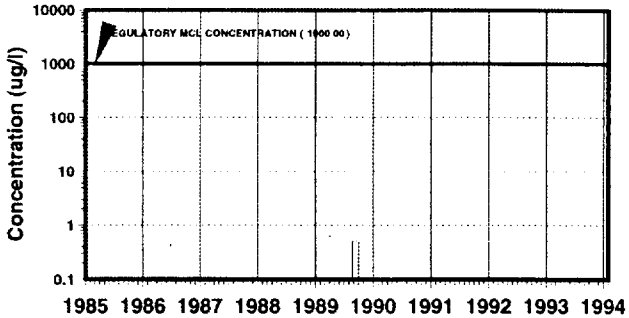
### *18*_RW3

SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

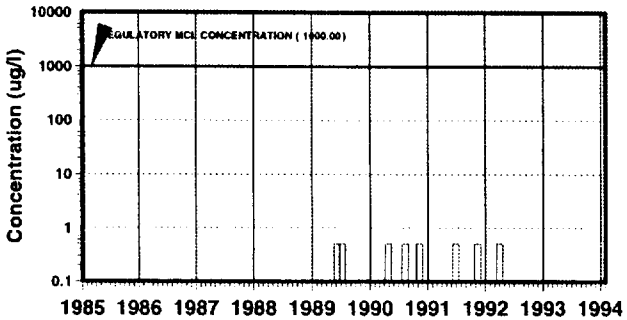
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

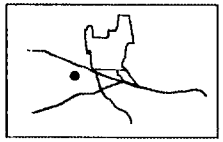
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(210)



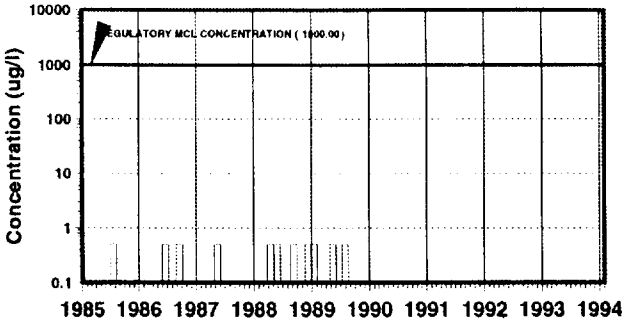
## TOLUENE Concentration

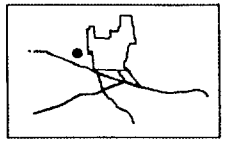
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

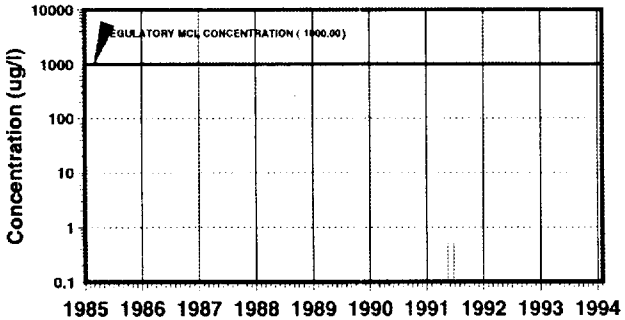
SAMPLING DEPTH (ft bgs)=(263-1503)

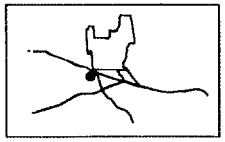


### 18_TIC037

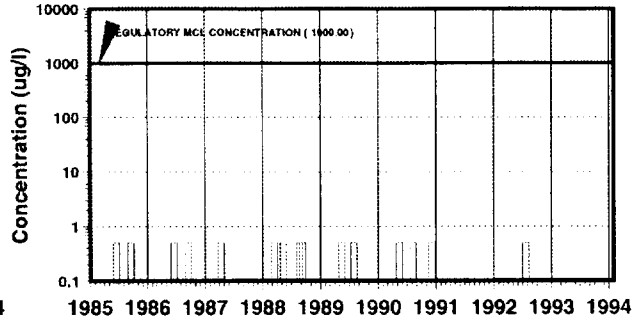
SAMPLING DEPTH (ft bgs)=(255-1560)

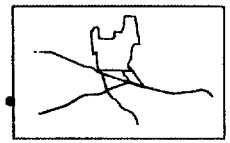


### 18_TIC047

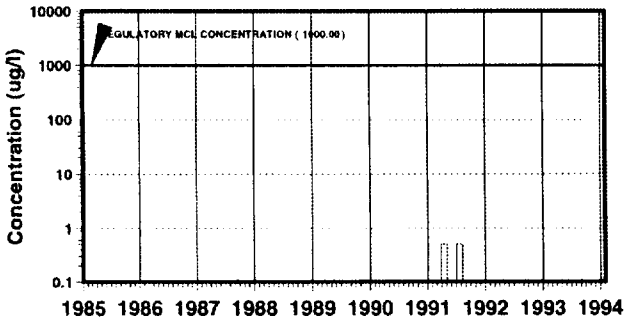
SAMPLING DEPTH (ft bgs)=(268-1107)

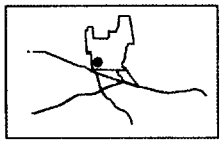


### 18_TIC051

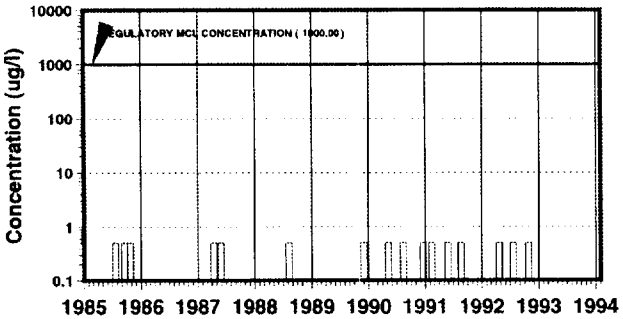
SAMPLING DEPTH (ft bgs)=(220-740)

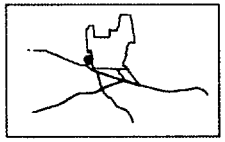


### 18_TIC055

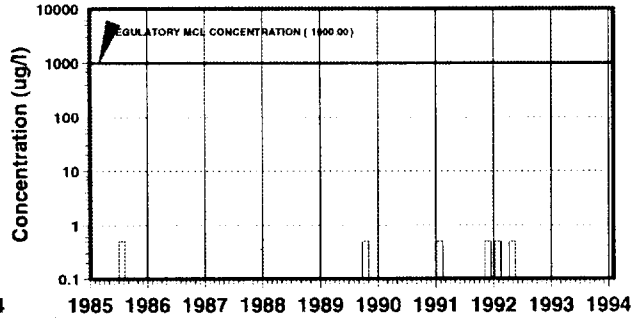
SAMPLING DEPTH (ft bgs)=(496)

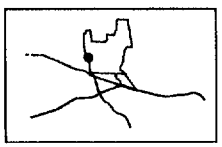


### 18_TIC056

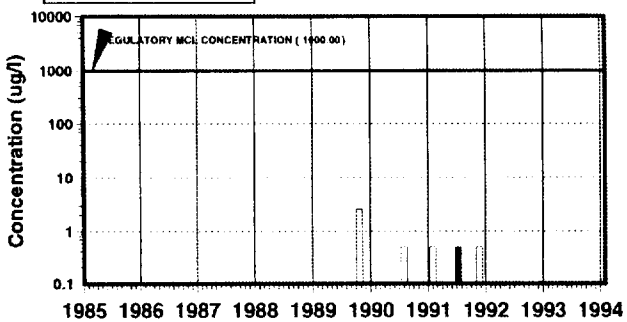
SAMPLING DEPTH (ft bgs)=(336-647)

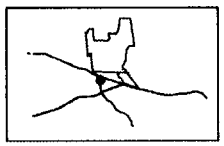


### 18_TIC061

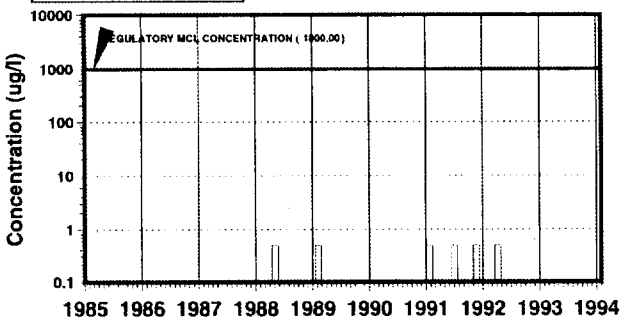
SAMPLING DEPTH (ft bgs)=(248-594)

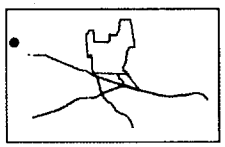


### 18_TIC068

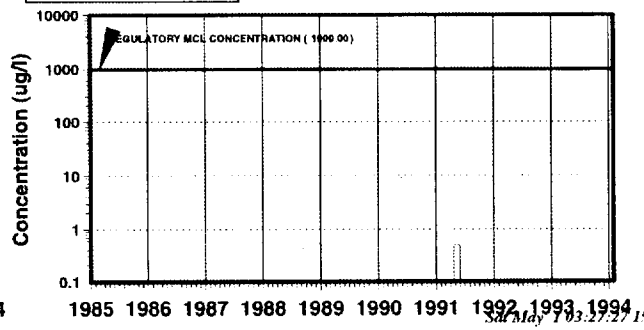
SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)

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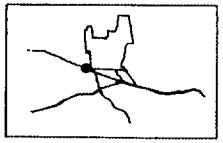
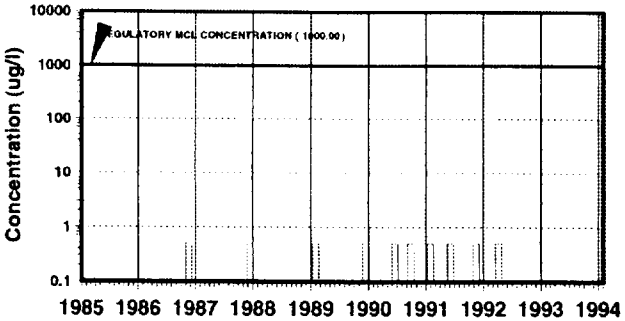
## *TOLUENE Concentration*

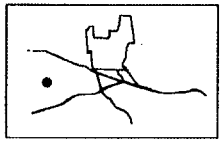
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

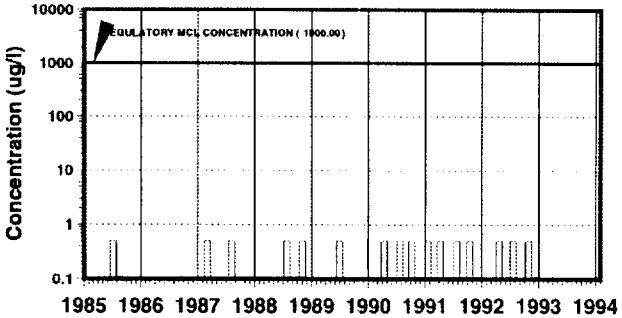
SAMPLING DEPTH (ft bgs)=(210-260)

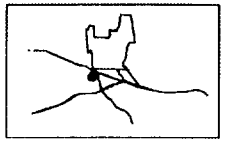


*18*_TIC078

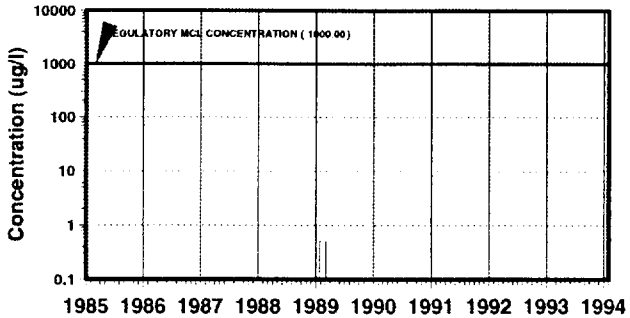
SAMPLING DEPTH (ft bgs)=(410-690)

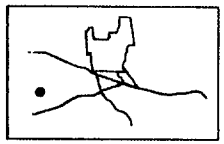


*18*_TIC083

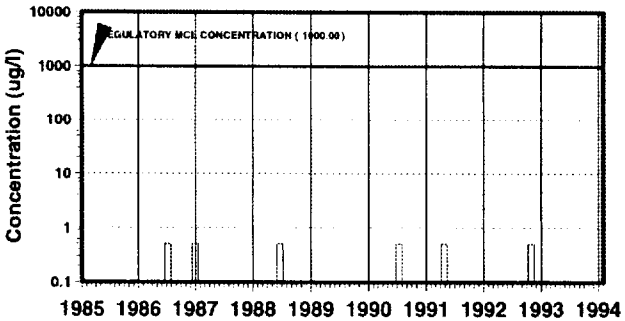
SAMPLING DEPTH (ft bgs)=(261-402)

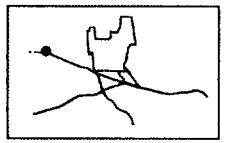


*18*_TIC106

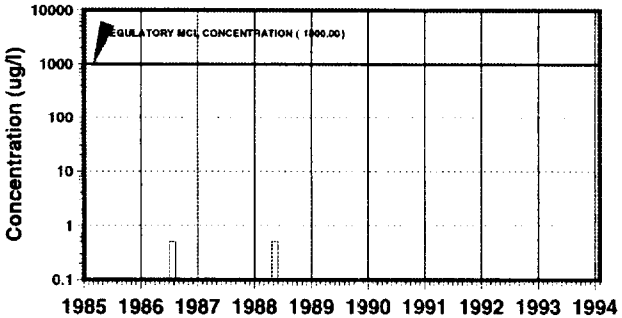
SAMPLING DEPTH (ft bgs)=(405-715)

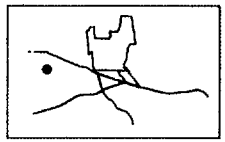


*18*_TIC107

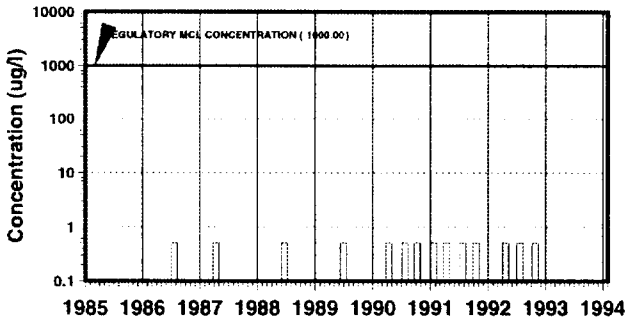
SAMPLING DEPTH (ft bgs)=(230-980)

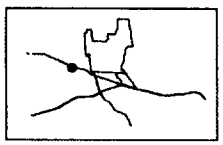


*18*_TIC108

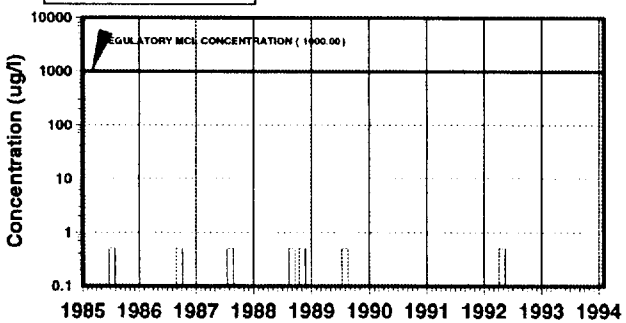
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

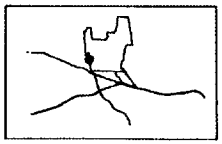
SAMPLING DEPTH (ft bgs)=(182-1030)




*Sat May 1 03:29:23 1993*

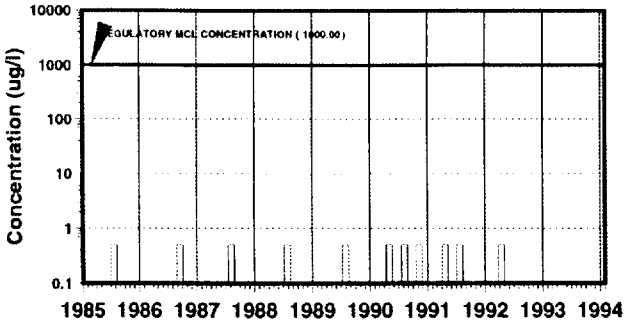
## TOLUENE Concentration

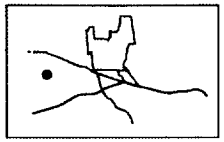
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC111

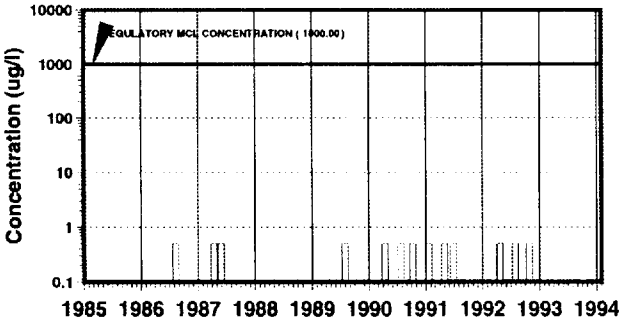
SAMPLING DEPTH (ft bgs)=(750)

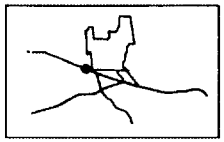


### 18_TIC113

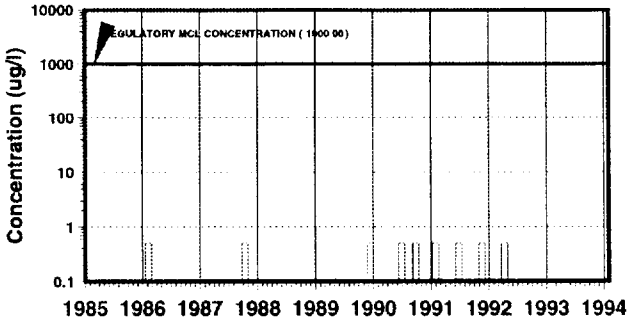
SAMPLING DEPTH (ft bgs)=(280-1080)

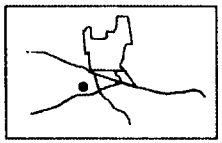


### 18_TIC117

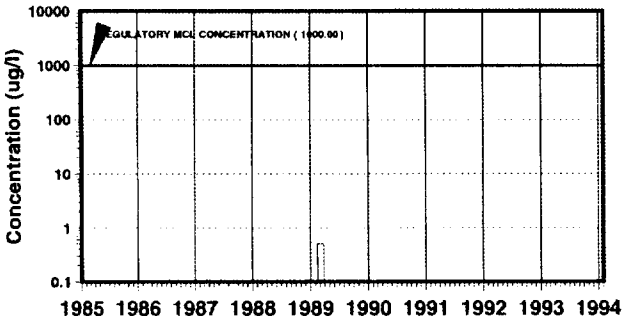
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



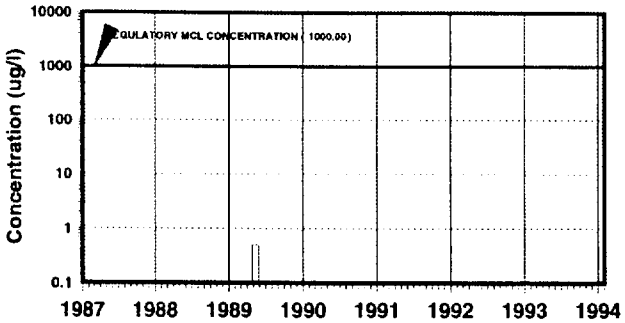
## *TOLUENE Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

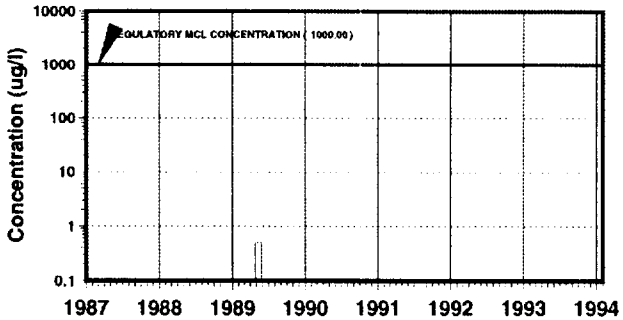
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

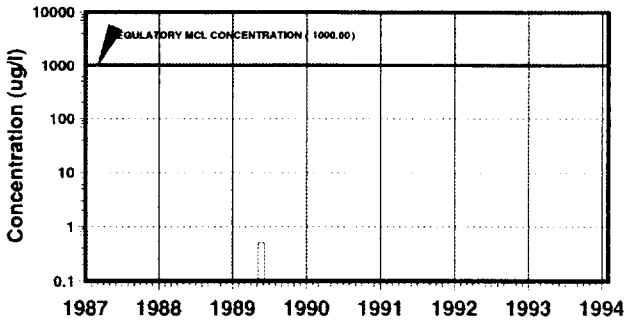
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

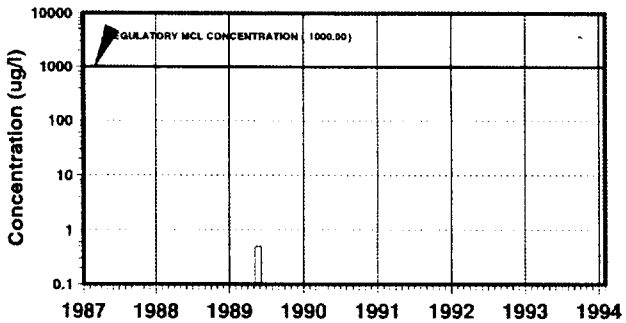
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

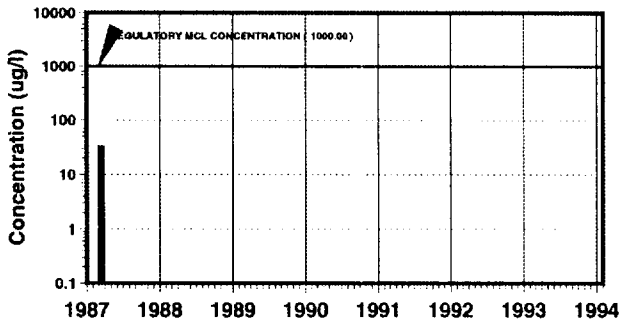
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

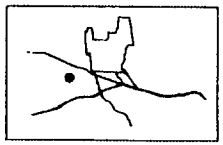
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(75-95)



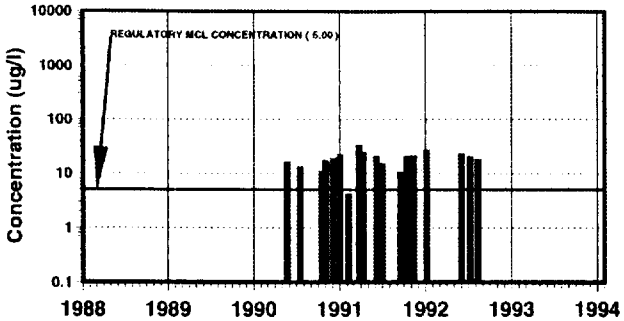
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

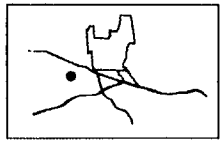
*TRICHLOROETHYLENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18_ET1*

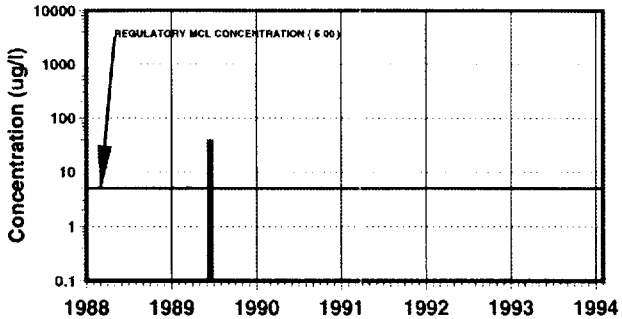
SAMPLING DEPTH (ft bgs)=(220-490)

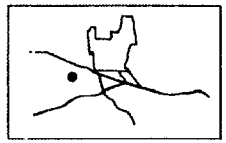


*18_ET1*

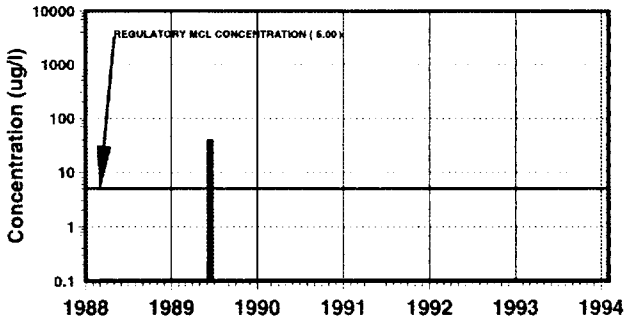
SAMPLING DEPTH (ft bgs)=(200)

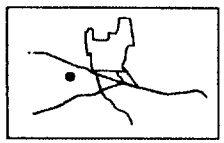


*18_ET1*

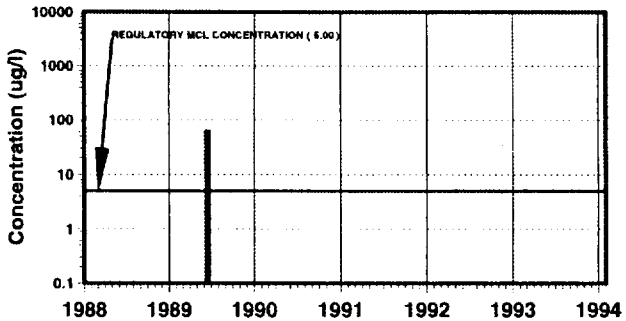
SAMPLING DEPTH (ft bgs)=(300)

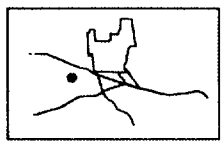


*18_ET1*

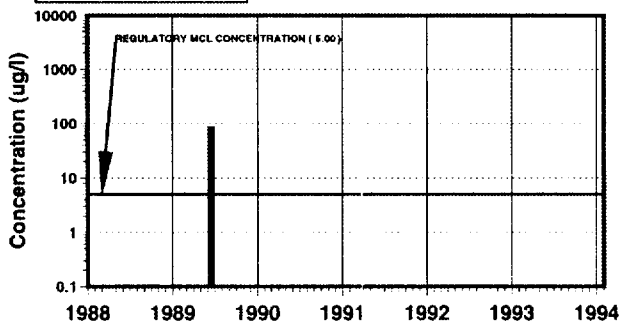
SAMPLING DEPTH (ft bgs)=(390)



*18_ET1*

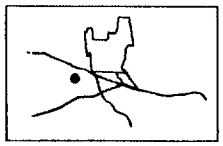
SAMPLING DEPTH (ft bgs)=(440)




*Sat May 1 03:32:04 1993*

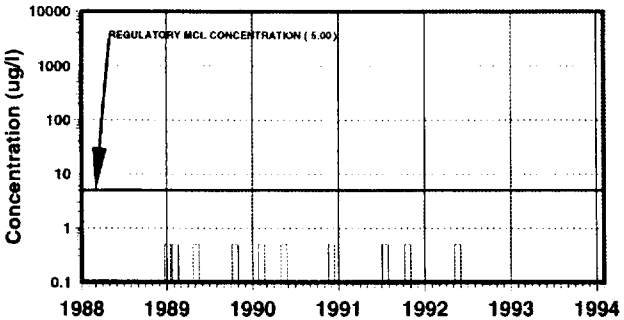
CAS EL TORO Phase I RI Technical Memorandum OCWD - .OUND WATER QUALITY DATA

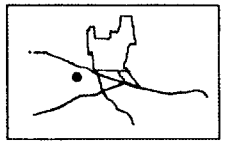
TRICHLOROETHYLENE Concentration FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

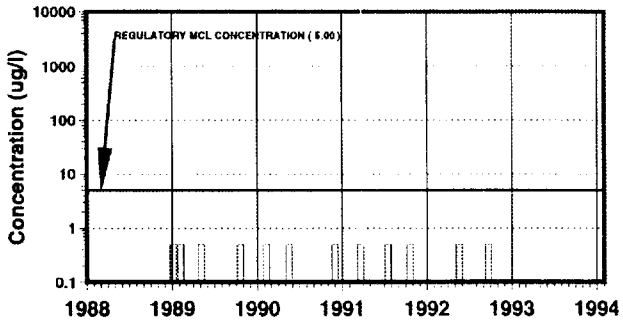
SAMPLING DEPTH (ft bgs)=(65)

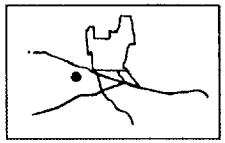


18_MCAS01

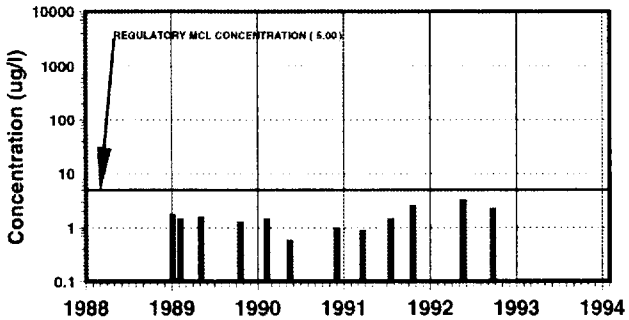
SAMPLING DEPTH (ft bgs)=(155)

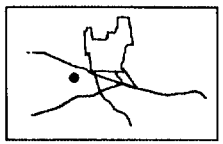


18_MCAS01

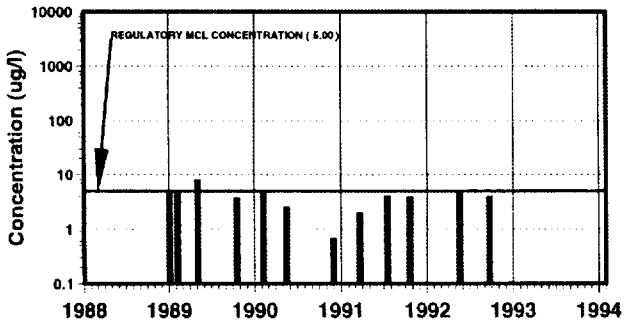
SAMPLING DEPTH (ft bgs)=(215)

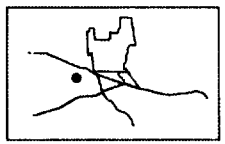


18_MCAS01

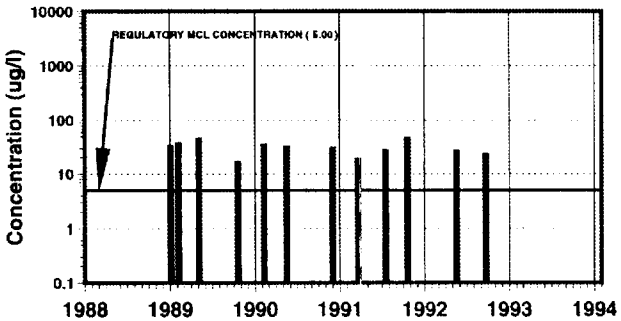
SAMPLING DEPTH (ft bgs)=(275)

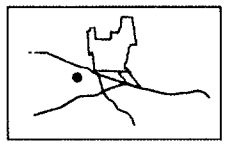


18_MCAS01

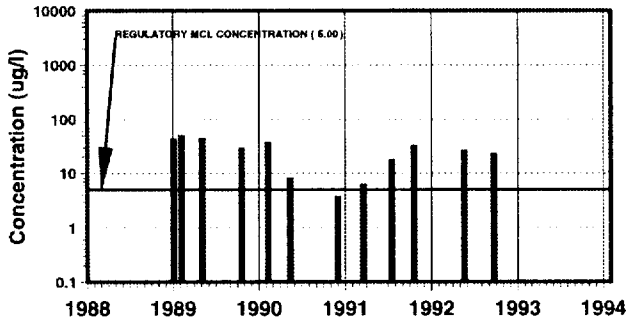
SAMPLING DEPTH (ft bgs)=(335)

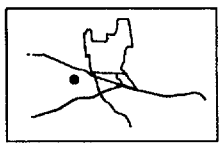


18_MCAS01

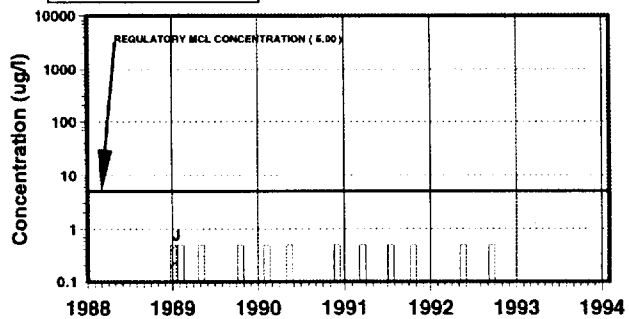
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

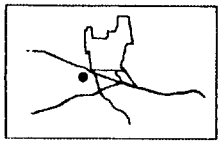
SAMPLING DEPTH (ft bgs)=(545)




Sat May 1 03:33:16 1993

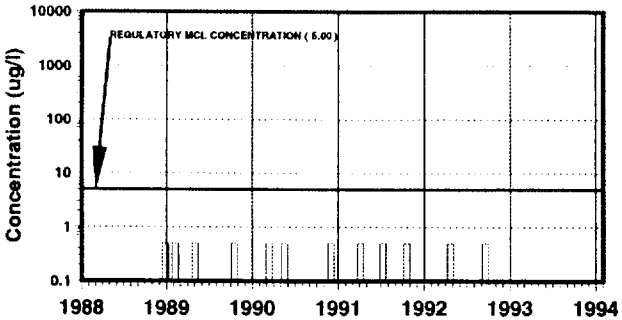
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

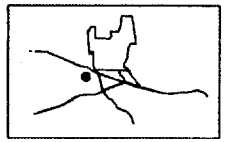
*TRICHLOROETHYLENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

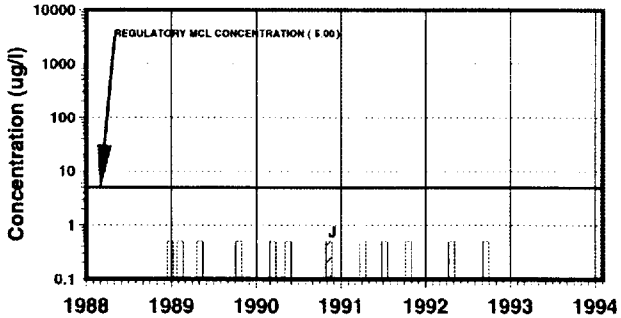
SAMPLING DEPTH (ft bgs)=(45)

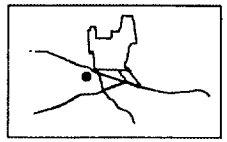


*18*_MCAS02

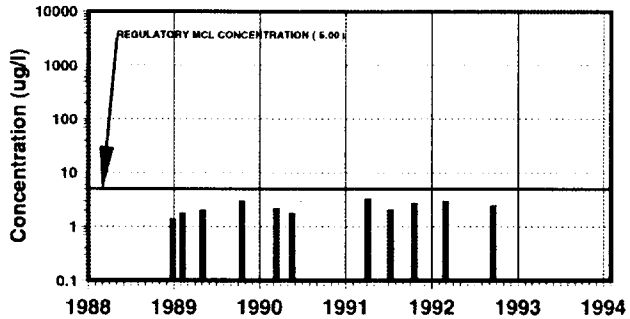
SAMPLING DEPTH (ft bgs)=(135)

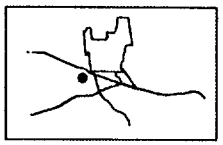


*18*_MCAS02

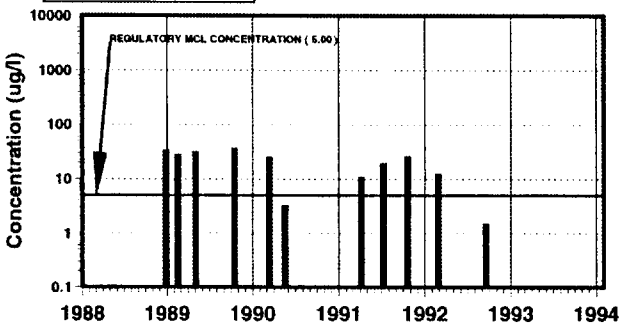
SAMPLING DEPTH (ft bgs)=(205)

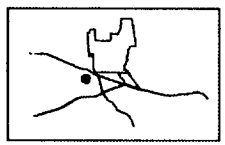


*18*_MCAS02

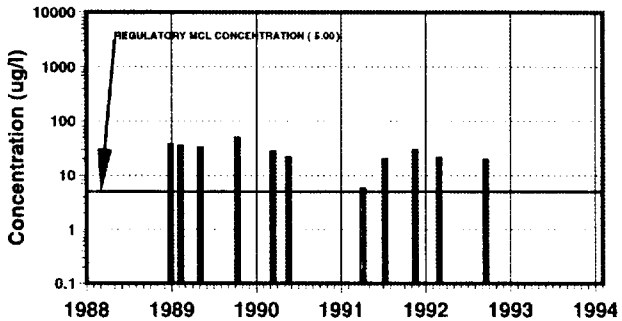
SAMPLING DEPTH (ft bgs)=(375)

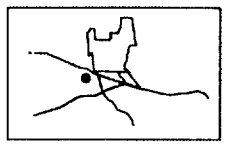


*18*_MCAS02

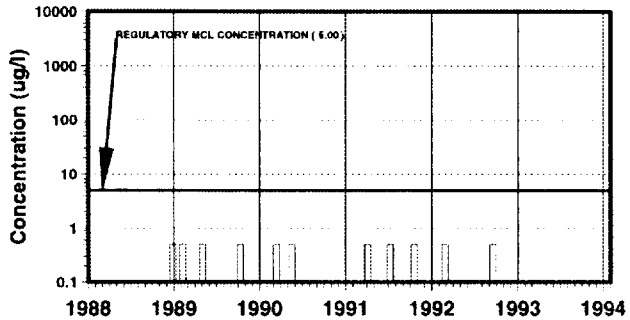
SAMPLING DEPTH (ft bgs)=(425)

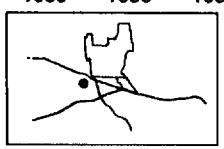


*18*_MCAS02

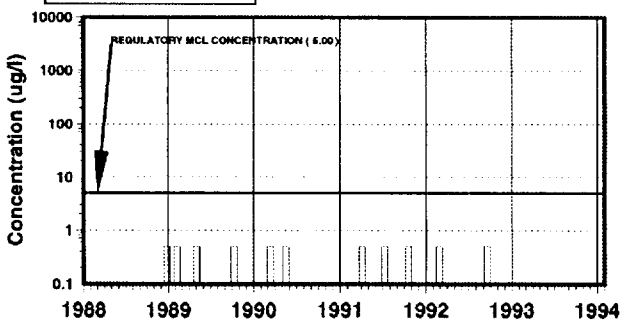
SAMPLING DEPTH (ft bgs)=(495)

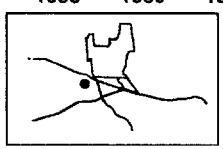


*18*_MCAS02

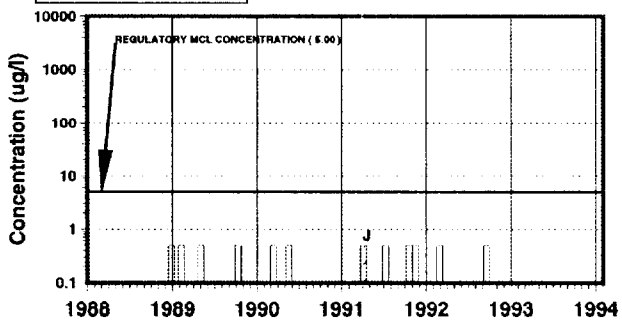
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(625)

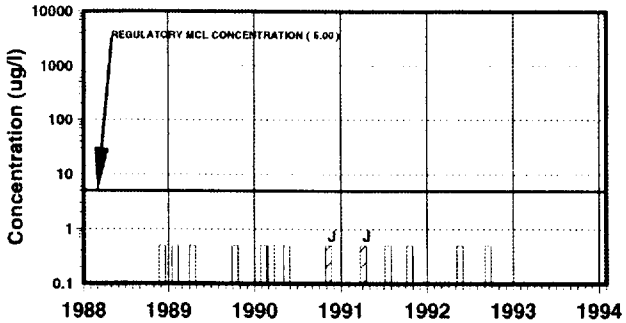



*Sat May 1 03:34:51 1993*

CAS EL TORO Phase I RI Technical Memorandum OCWD - OUND WATER QUALITY DATA
TRICHLOROETHYLENE Concentration FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

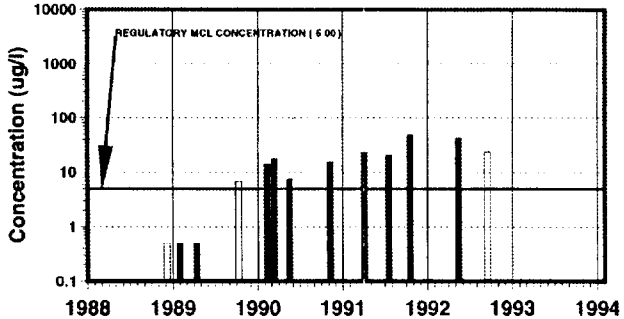
18_MCAS03

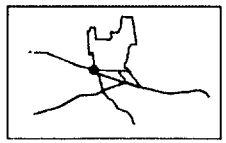
SAMPLING DEPTH (ft bgs)=(90)



18_MCAS03

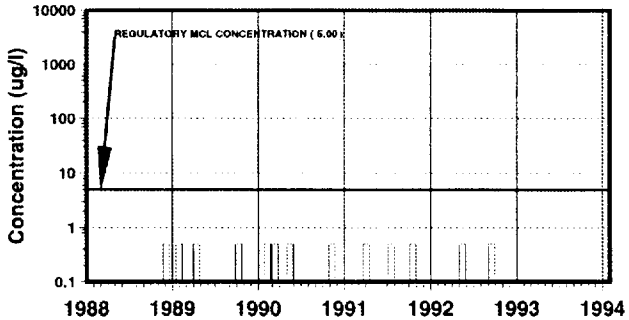
SAMPLING DEPTH (ft bgs)=(165)

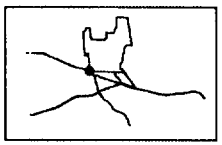


18_MCAS03

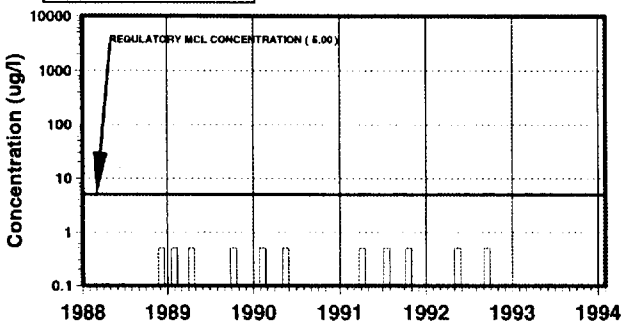
SAMPLING DEPTH (ft bgs)=(225)

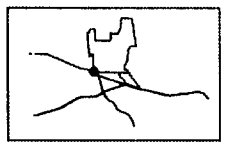


18_MCAS03

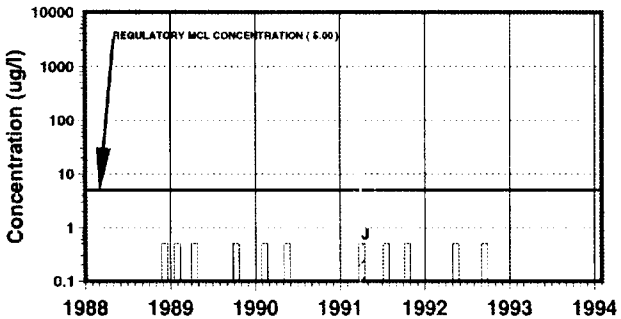
SAMPLING DEPTH (ft bgs)=(345)



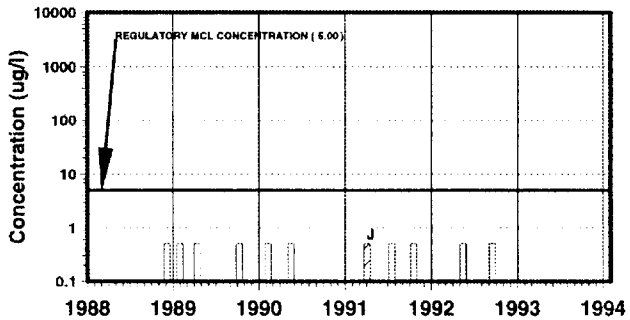
18_MCAS03

SAMPLING DEPTH (ft bgs)=(425)



18_MCAS03

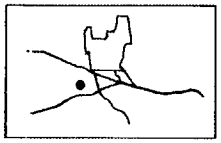
SAMPLING DEPTH (ft bgs)=(495)




Sat May 1 03:36:36 1993

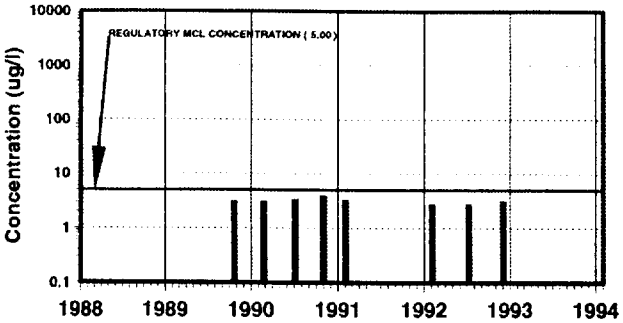
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

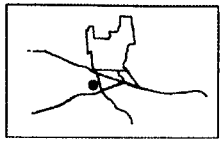
*TRICHLOROETHYLENE Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

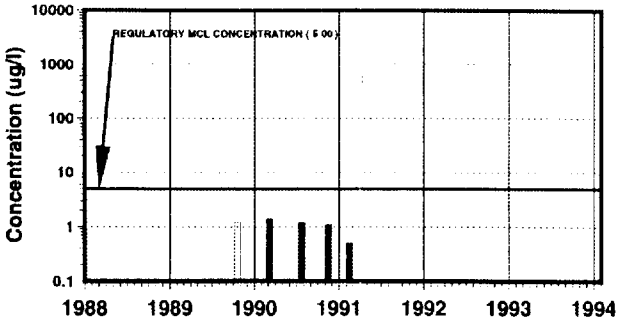
SAMPLING DEPTH (ft bgs)=(181-238)

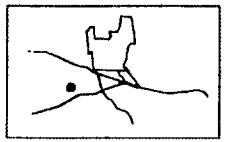


*18*_MCAS05

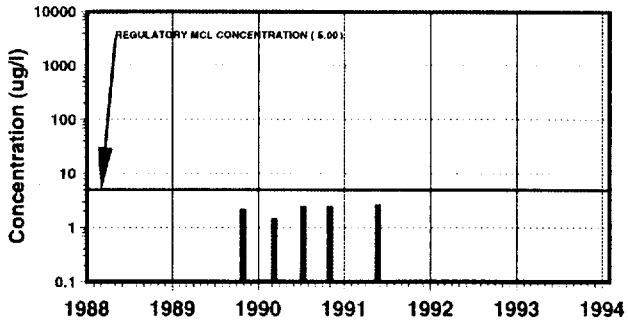
SAMPLING DEPTH (ft bgs)=(142-148)

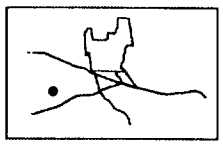


*18*_MCAS06

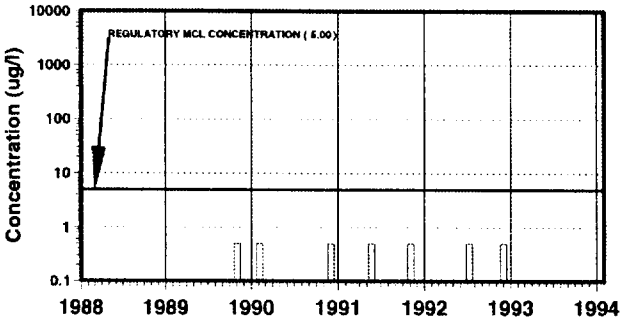
SAMPLING DEPTH (ft bgs)=(167-222)

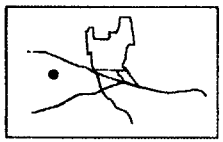


*18*_MCAS08

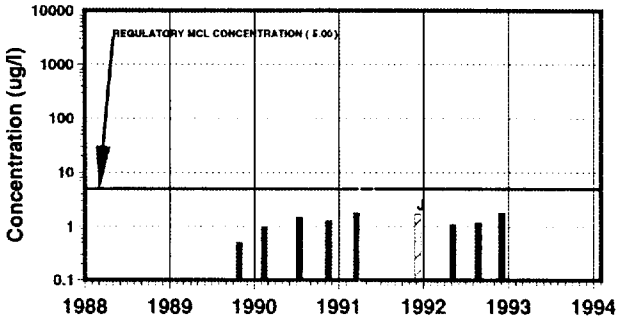
SAMPLING DEPTH (ft bgs)=(392-410)

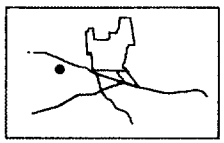


*18*_MCAS09

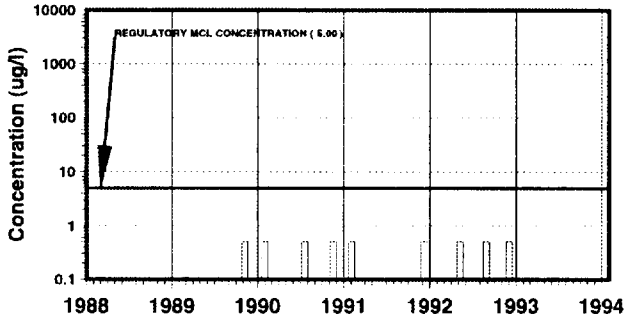
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

SAMPLING DEPTH (ft bgs)=(355-375)

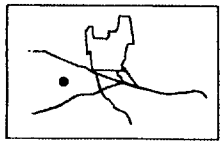



*Sat May 1 03:37:57 1993*

# CAS EL TORO Phase I RI Technical Memorandum OCWD - .OUND WATER QUALITY DATA

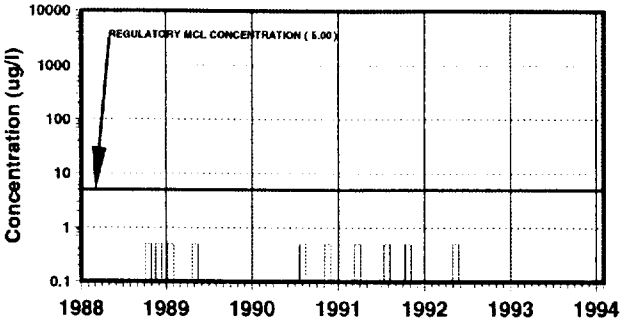
## TRICHLOROETHYLENE Concentration

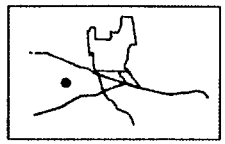
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS07

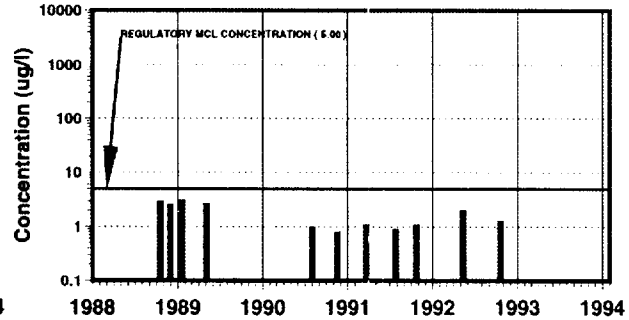
SAMPLING DEPTH (ft bgs)=(94)

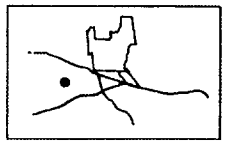


*18*_MCAS07

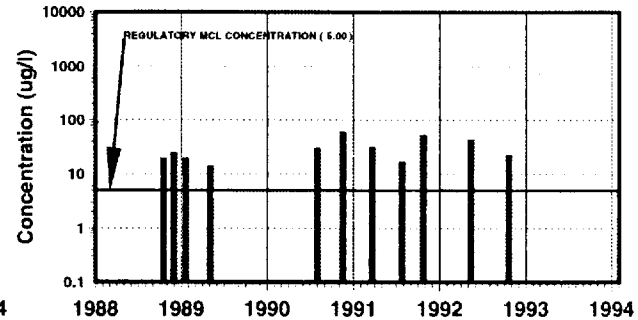
SAMPLING DEPTH (ft bgs)=(194)

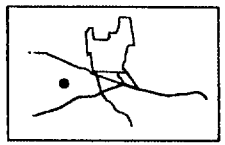


*18*_MCAS07

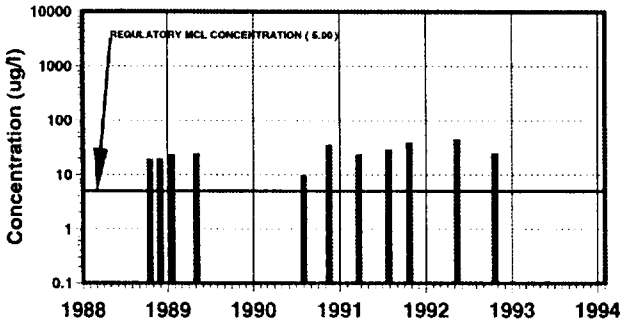
SAMPLING DEPTH (ft bgs)=(354)

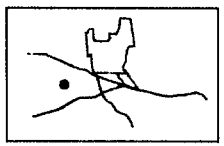


*18*_MCAS07

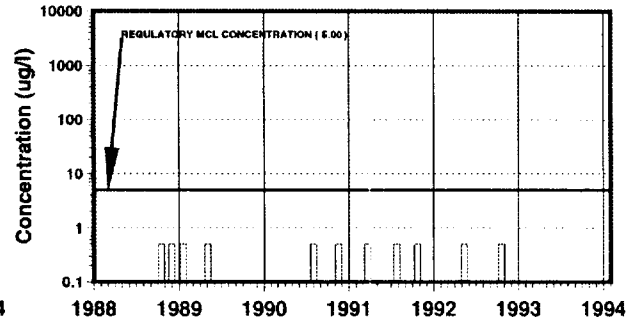
SAMPLING DEPTH (ft bgs)=(444)

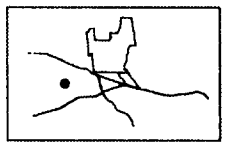


*18*_MCAS07

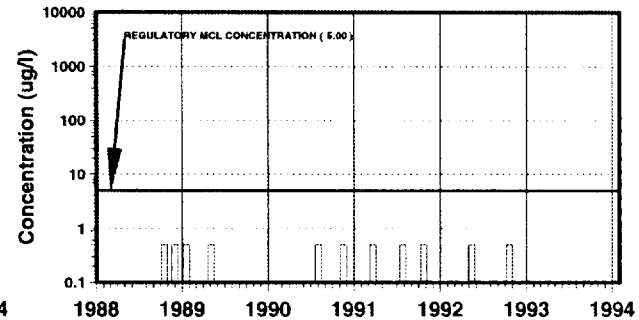
SAMPLING DEPTH (ft bgs)=(514)

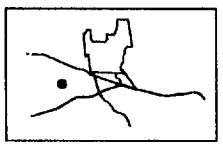


*18*_MCAS07

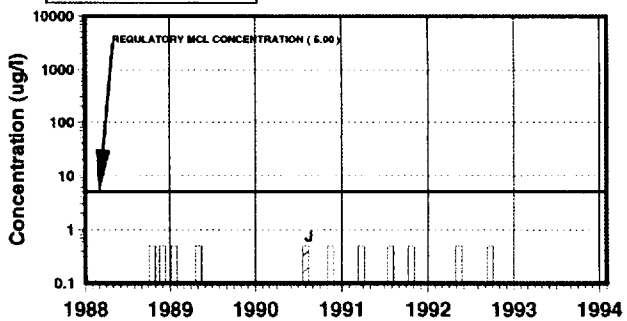
SAMPLING DEPTH (ft bgs)=(804)

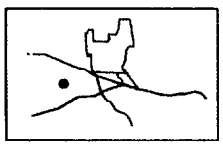


*18*_MCAS07

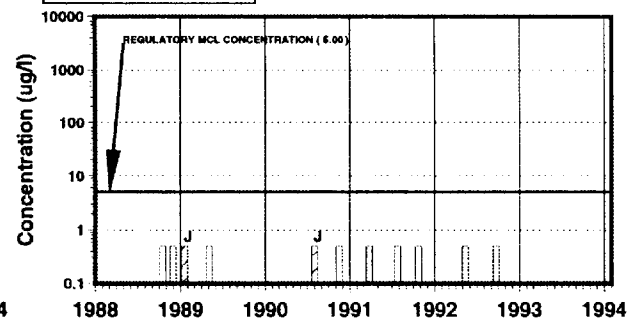
SAMPLING DEPTH (ft bgs)=(914)



*18*_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




*Sat May 1 22:02:42 1993*

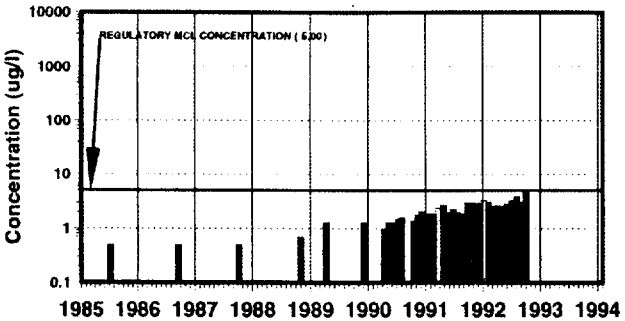
## *TRICHLOROETHYLENE Concentration*

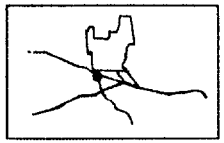
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_NLAKE

*NO X,Y DATA*

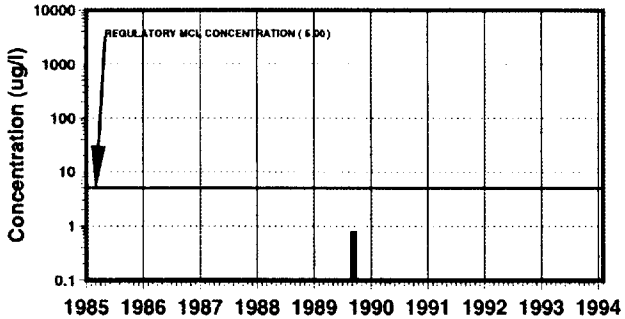
SAMPLING DEPTH (ft bgs)=(370-890)

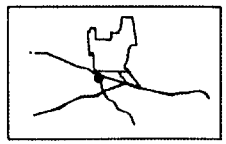


### *18*_RW3

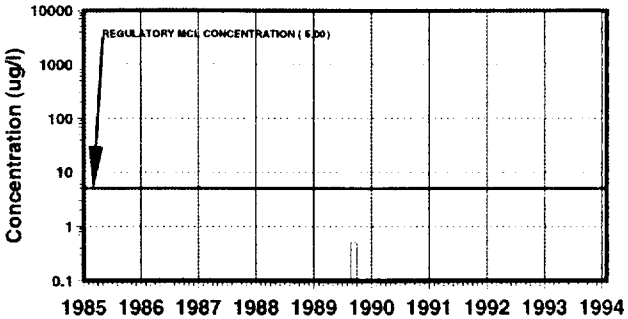
SAMPLING DEPTH (ft bgs)=(370-390)



### *18*_RW4

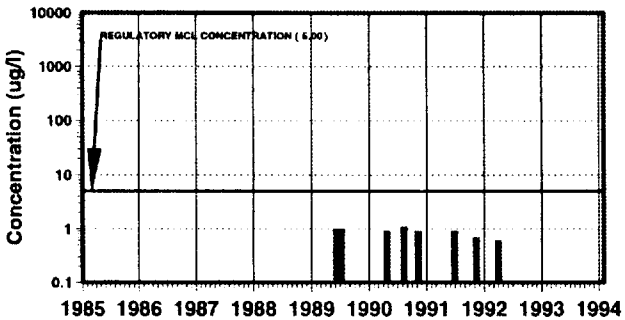
SAMPLING DEPTH (ft bgs)=(65-85)




### *18*_SLAKE

*NO X,Y DATA*

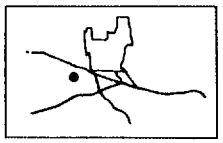
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 22:04:29 1993*

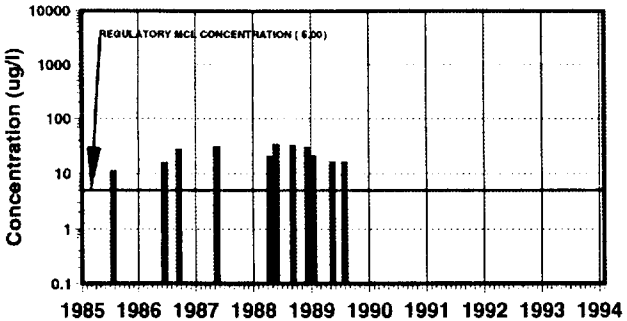
## TRICHLOROETHYLENE Concentration

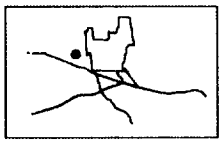
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

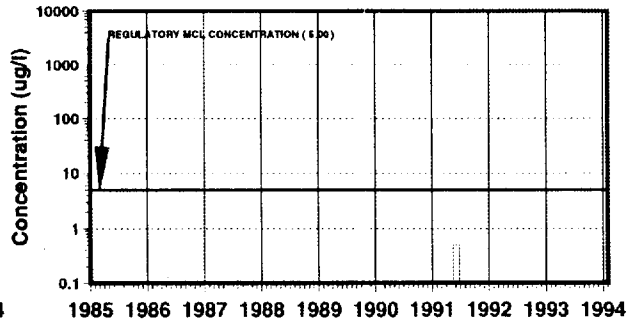
SAMPLING DEPTH (ft bgs)=(263-1503)

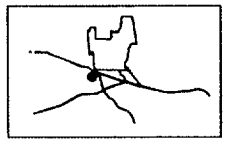


### 18_TIC037

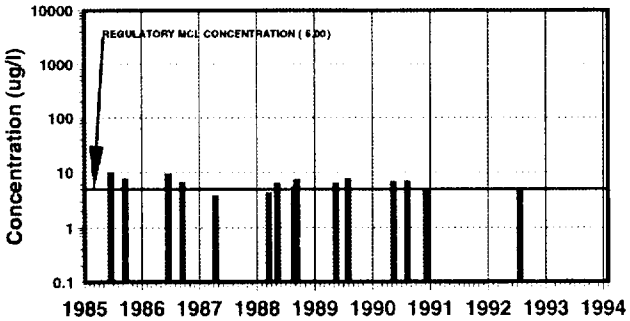
SAMPLING DEPTH (ft bgs)=(255-1560)



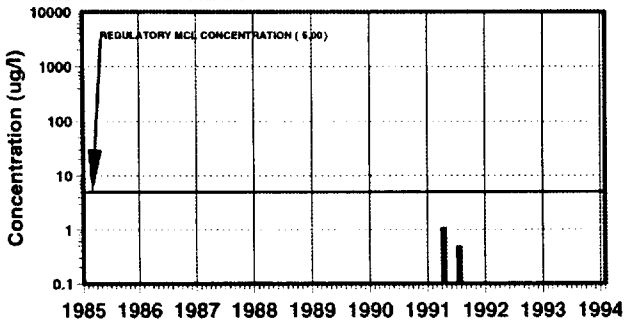
### 18_TIC047

SAMPLING DEPTH (ft bgs)=(268-1107)



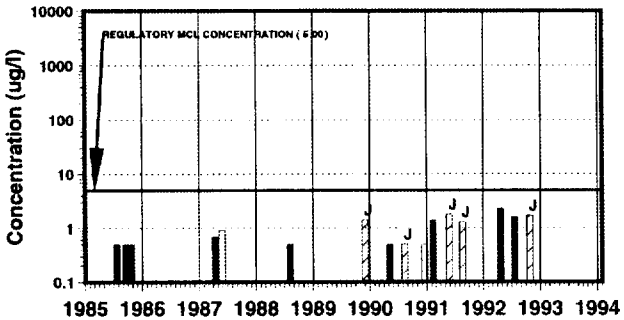
### 18_TIC051

SAMPLING DEPTH (ft bgs)=(220-740)



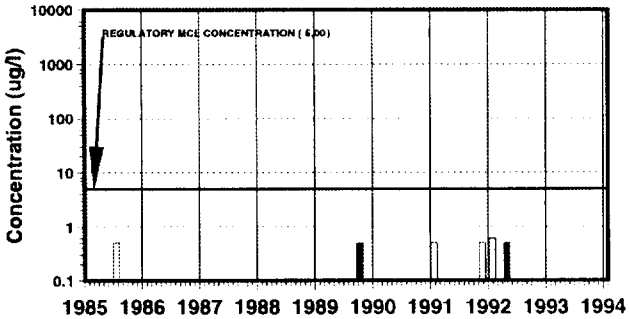
### 18_TIC055

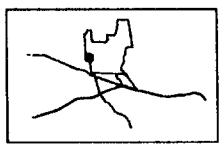
SAMPLING DEPTH (ft bgs)=(496)



### 18_TIC056

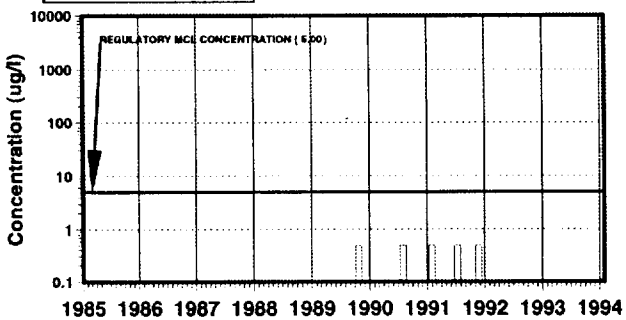
SAMPLING DEPTH (ft bgs)=(336-647)

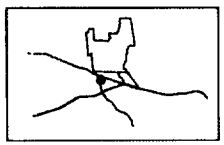


### 18_TIC061

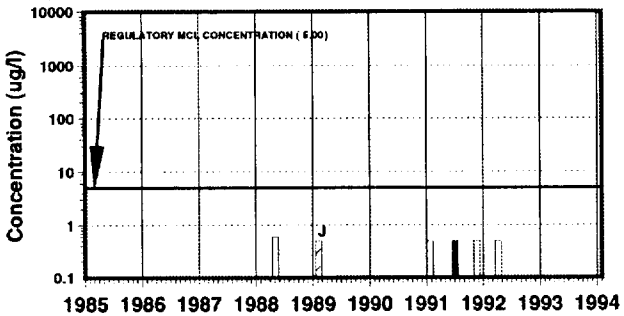
SAMPLING DEPTH (ft bgs)=(248-694)

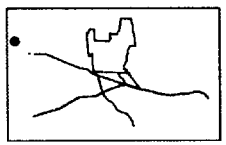


### 18_TIC068

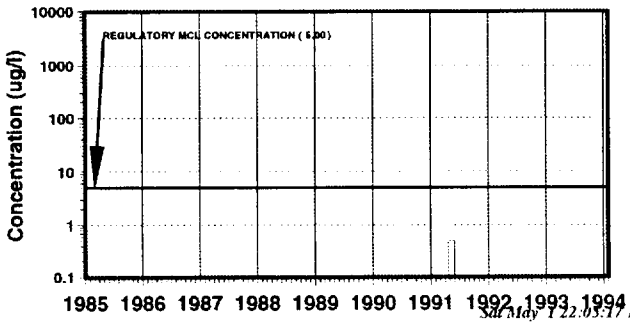
SAMPLING DEPTH (ft bgs)=(274-403)



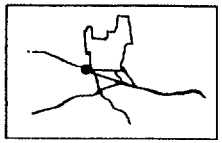
### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)



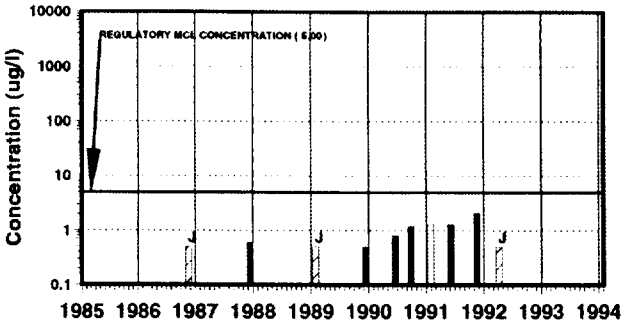
# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## TRICHLOROETHYLENE Concentration

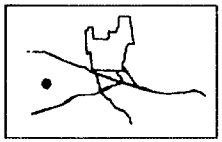
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

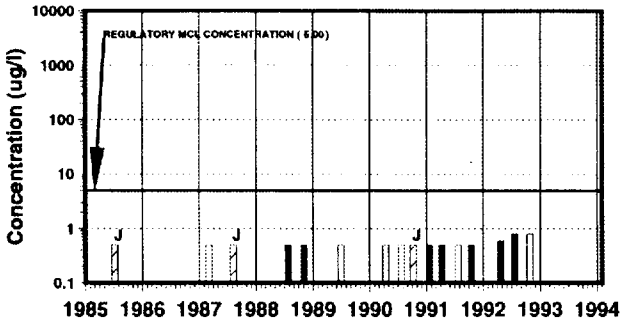
SAMPLING DEPTH (ft bgs)=(210-280)

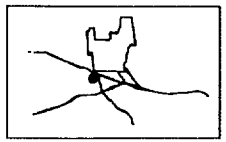


*18*_TIC078

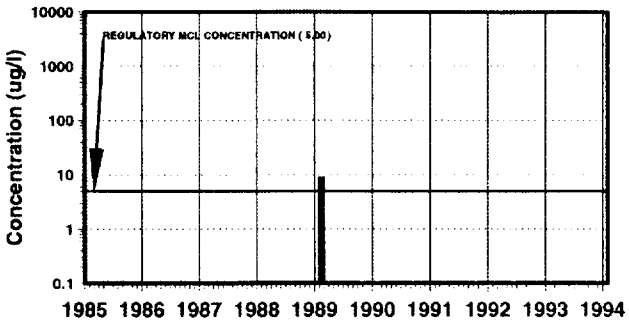
SAMPLING DEPTH (ft bgs)=(410-690)

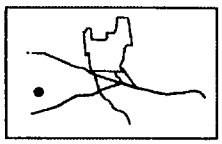


*18*_TIC083

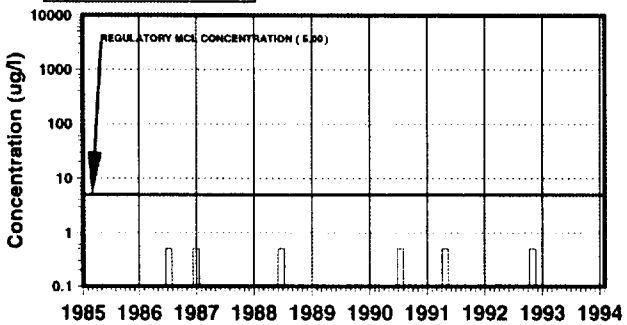
SAMPLING DEPTH (ft bgs)=(261-402)

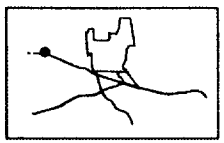


*18*_TIC106

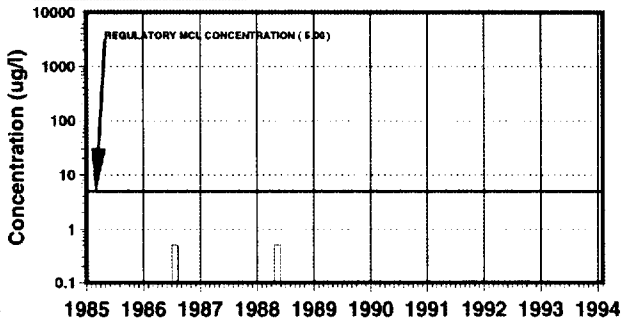
SAMPLING DEPTH (ft bgs)=(405-715)

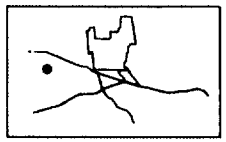


*18*_TIC107

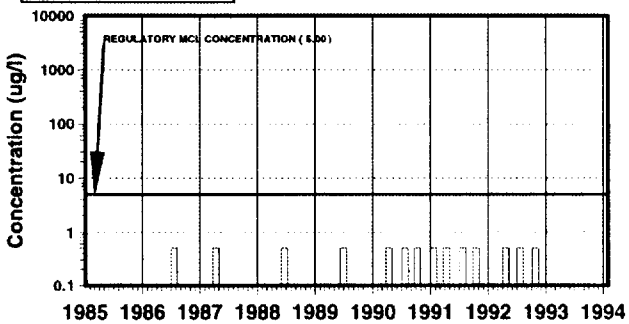
SAMPLING DEPTH (ft bgs)=(230-980)



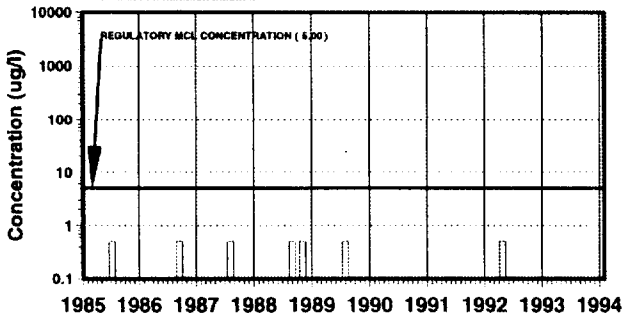
*18*_TIC108

SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



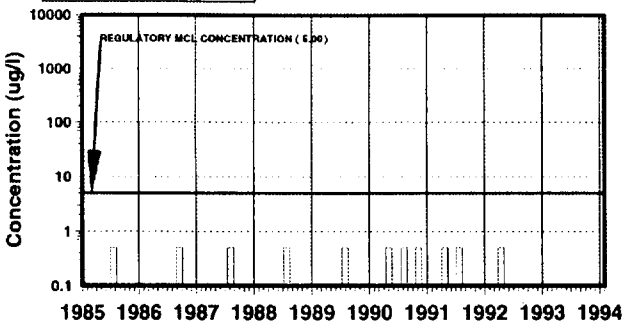

*Sat May 1 22:07:18 1993*

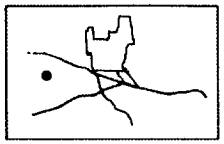
## TRICHLOROETHYLENE Concentration

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### 18_TIC111

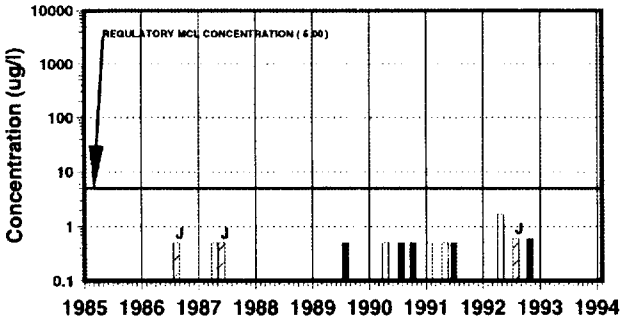
SAMPLING DEPTH (ft bgs)=(750)

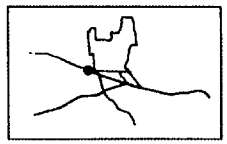


### 18_TIC113

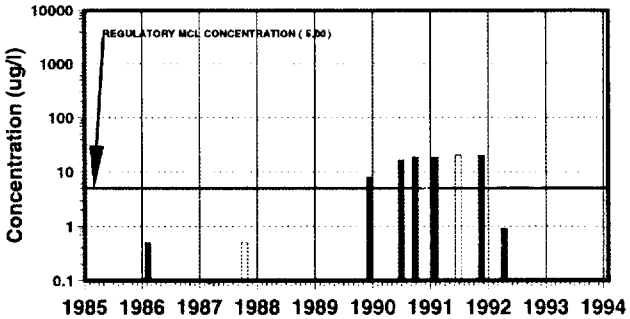
SAMPLING DEPTH (ft bgs)=(260-1080)

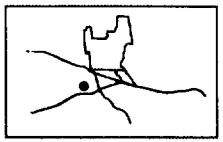


### 18_TIC117

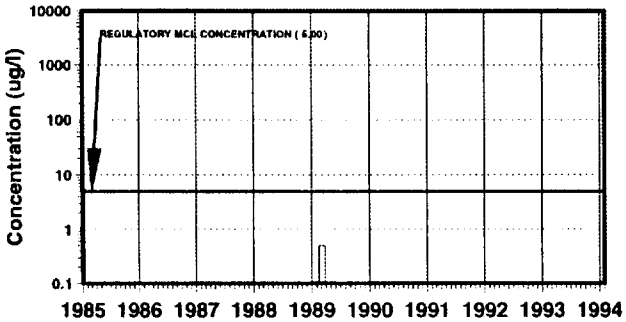
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)

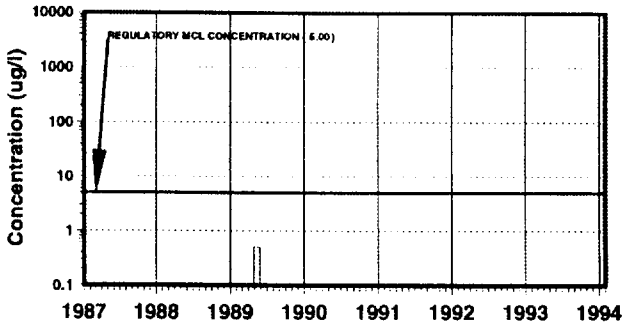


***TRICHLOROETHYLENE Concentration*** *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_CN2

*NO X,Y DATA*

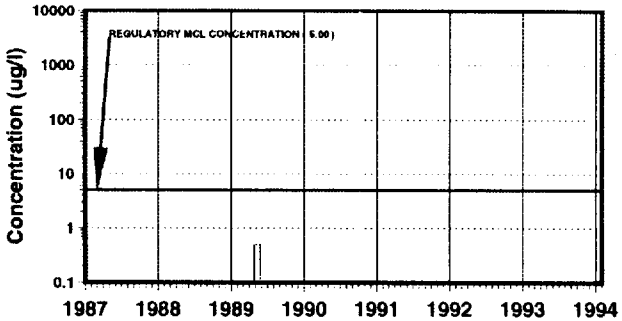
SAMPLING DEPTH (ft bgs)=(75-95)




*18*_CN5

*NO X,Y DATA*

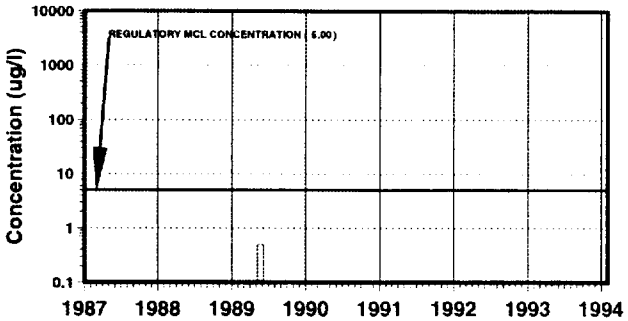
SAMPLING DEPTH (ft bgs)=(70-90)




*18*_CN12

*NO X,Y DATA*

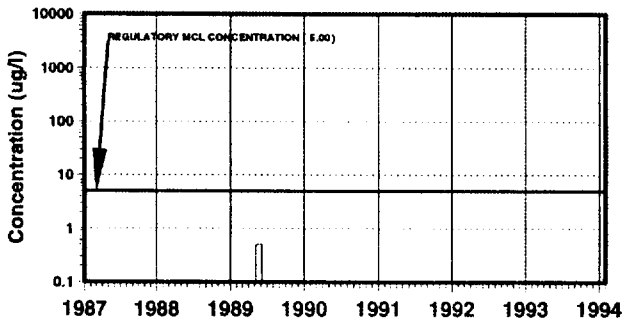
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_CN13

*NO X,Y DATA*

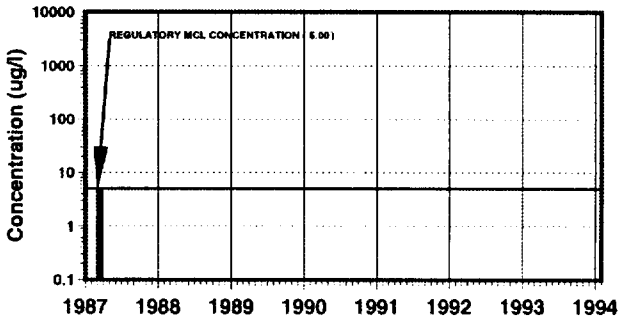
SAMPLING DEPTH (ft bgs)=(60-80)




*18*_WPMW1

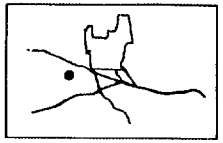
*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(75-95)



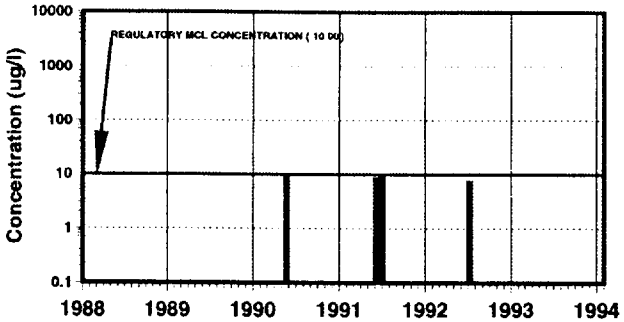
## *NITRATE AS N Concentration*

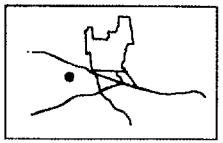
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

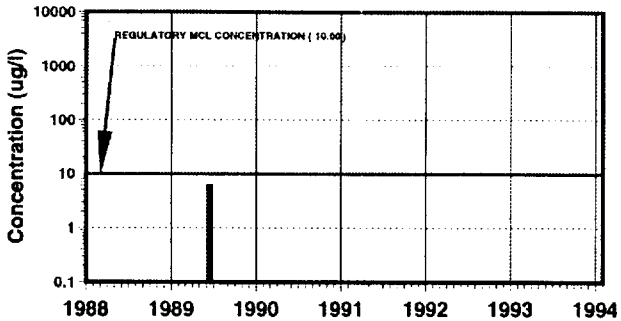
SAMPLING DEPTH (ft bgs)=(220-490)



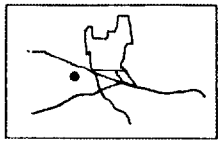
*18*_ET1

SAMPLING DEPTH (ft bgs)=(200)



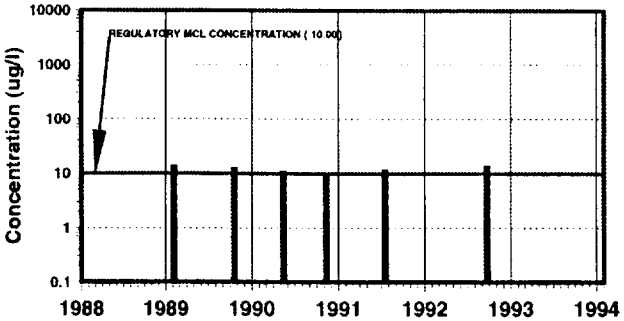
## NITRATE AS N Concentration

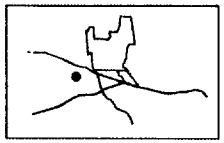
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

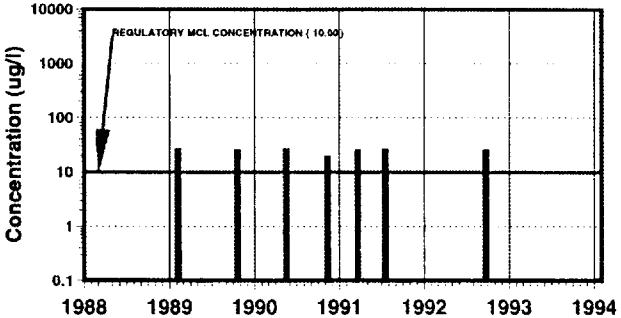
SAMPLING DEPTH (ft bgs)=(65)

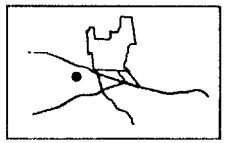


18_MCAS01

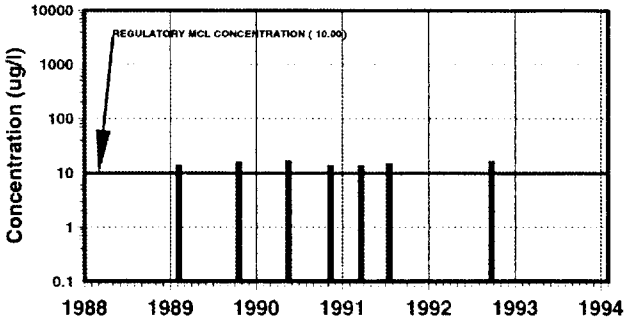
SAMPLING DEPTH (ft bgs)=(155)

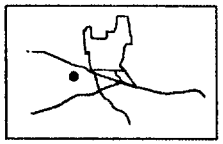


18_MCAS01

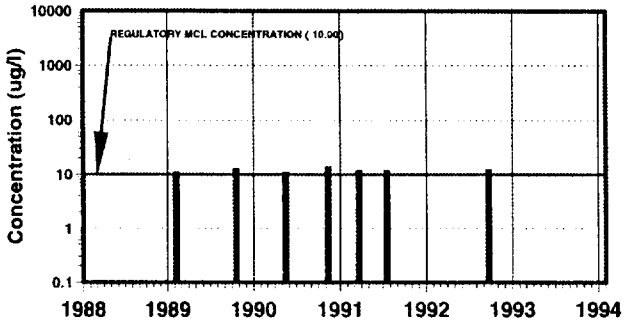
SAMPLING DEPTH (ft bgs)=(215)

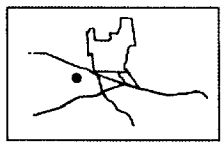


18_MCAS01

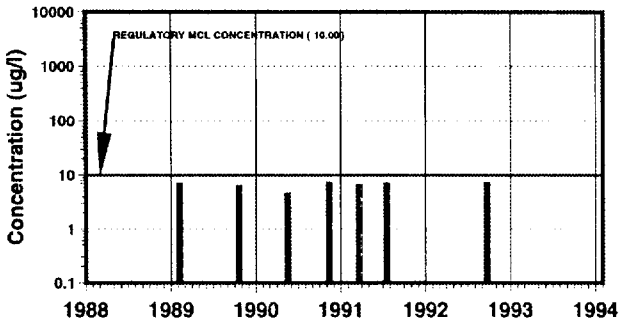
SAMPLING DEPTH (ft bgs)=(275)

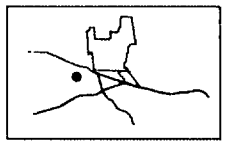


18_MCAS01

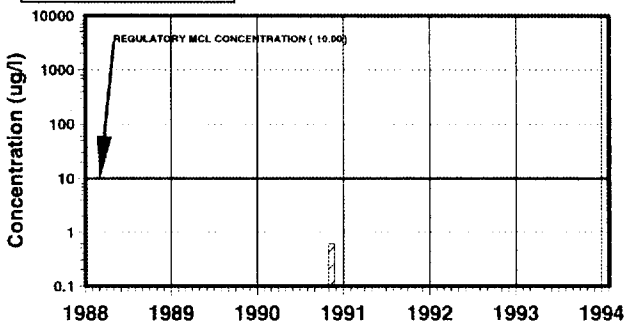
SAMPLING DEPTH (ft bgs)=(335)

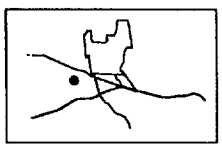


18_MCAS01

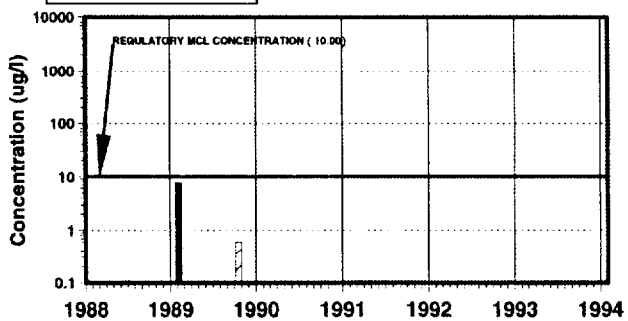
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

SAMPLING DEPTH (ft bgs)=(545)

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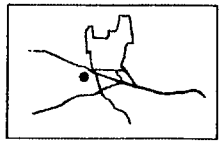
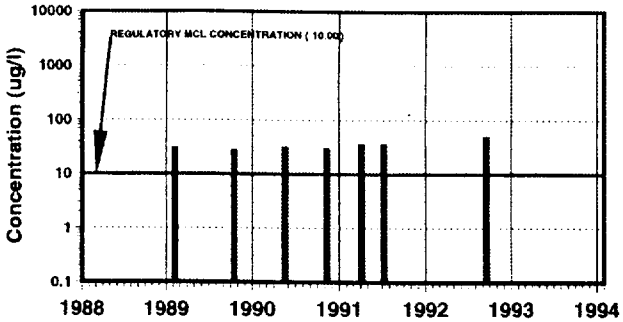
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

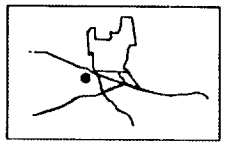
*NITRATE AS N Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

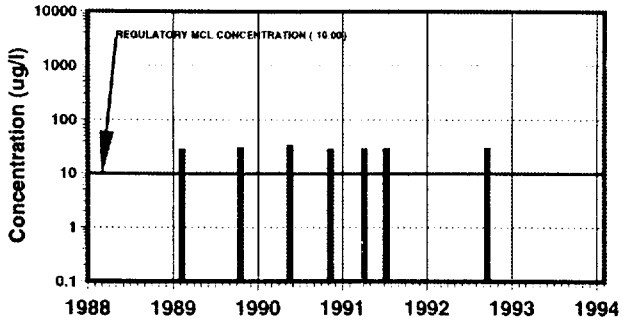
SAMPLING DEPTH (ft bgs)=(45)

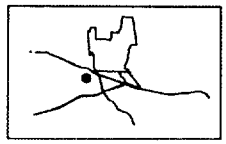


*18*_MCAS02

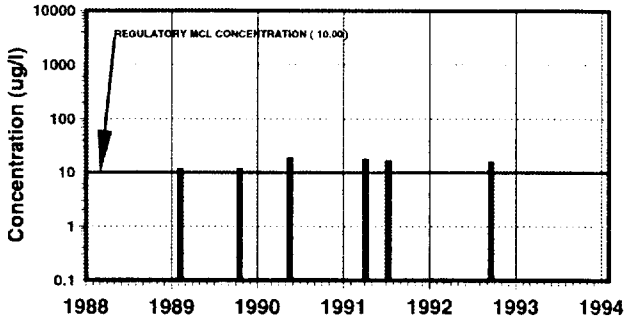
SAMPLING DEPTH (ft bgs)=(135)

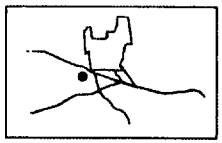


*18*_MCAS02

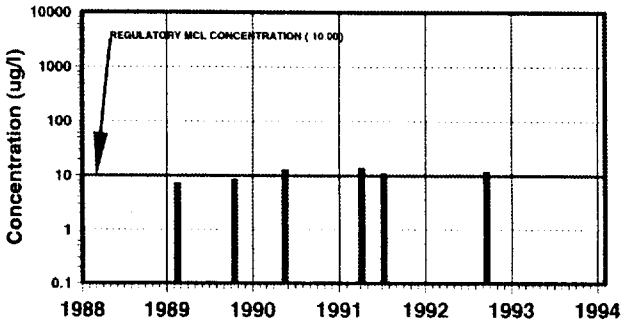
SAMPLING DEPTH (ft bgs)=(205)

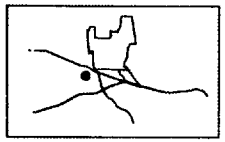


*18*_MCAS02

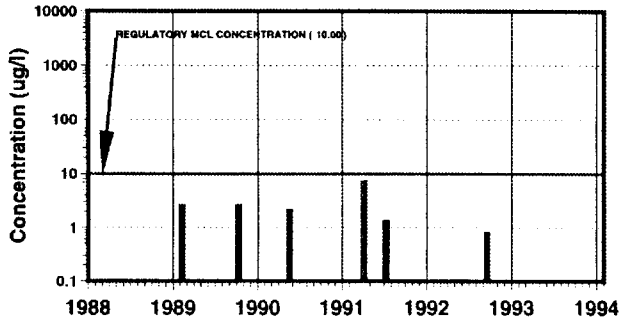
SAMPLING DEPTH (ft bgs)=(375)

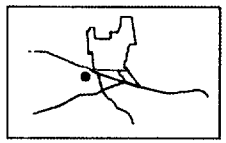


*18*_MCAS02

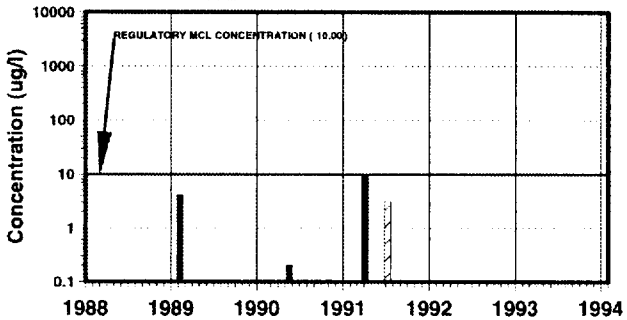
SAMPLING DEPTH (ft bgs)=(425)

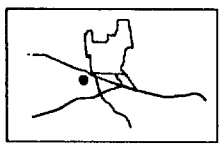


*18*_MCAS02

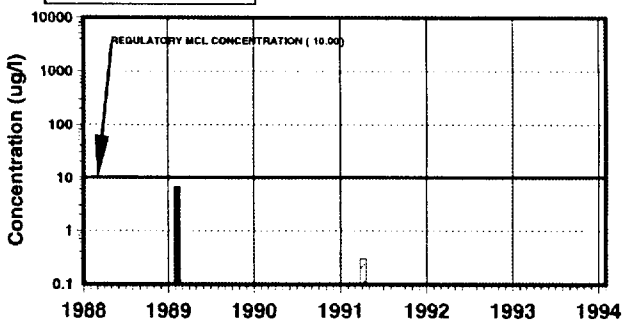
SAMPLING DEPTH (ft bgs)=(495)

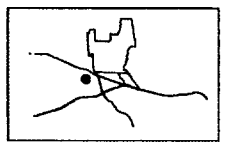


*18*_MCAS02

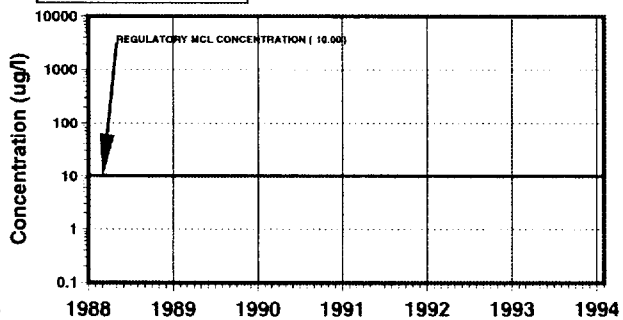
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(625)




*Sat May 1 18:41:08 1993*

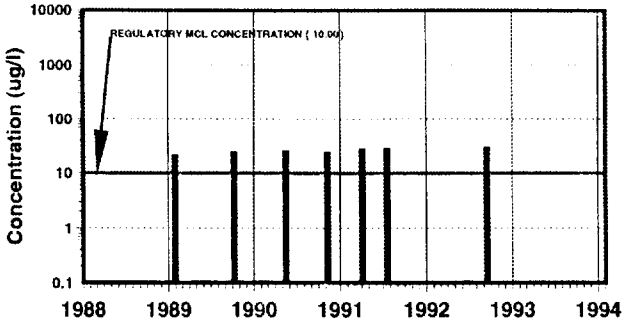
## CAS EL TORO Phase I RI Technical Memorandum OCWD - .OUND WATER QUALITY DATA

## NITRATE AS N Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

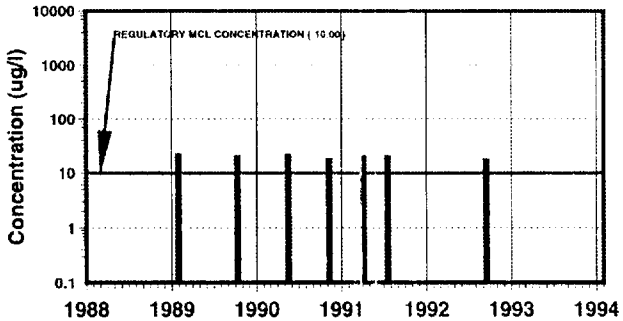
18_MCAS03

SAMPLING DEPTH (ft bgs)=(90)



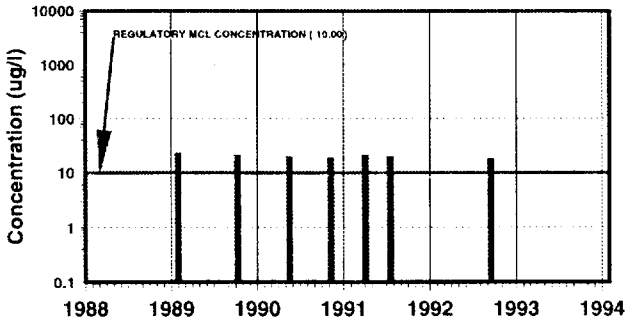
18_MCAS03

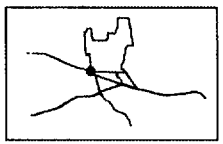
SAMPLING DEPTH (ft bgs)=(165)



18_MCAS03

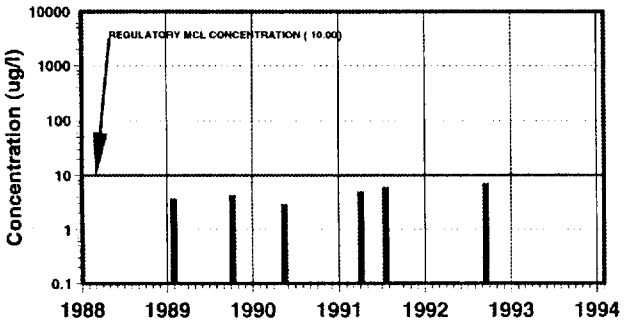
SAMPLING DEPTH (ft bgs)=(225)

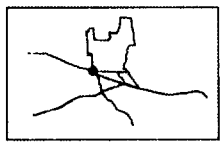


18_MCAS03

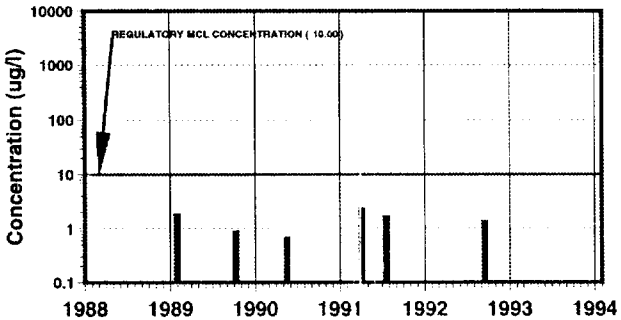
SAMPLING DEPTH (ft bgs)=(345)

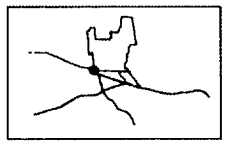


18_MCAS03

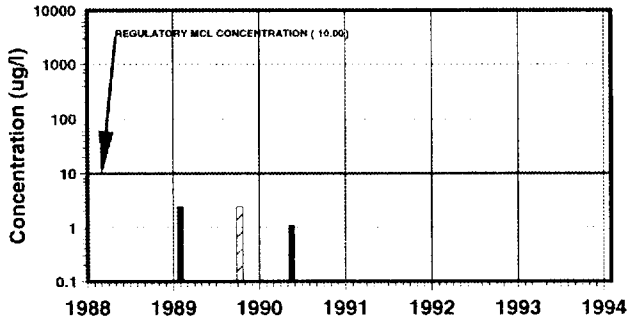
SAMPLING DEPTH (ft bgs)=(425)



18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)

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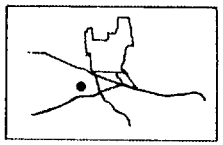
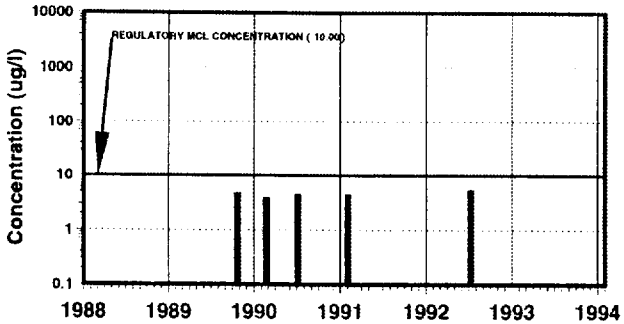
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

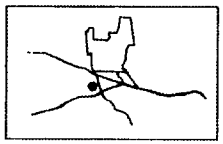
*NITRATE AS N Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

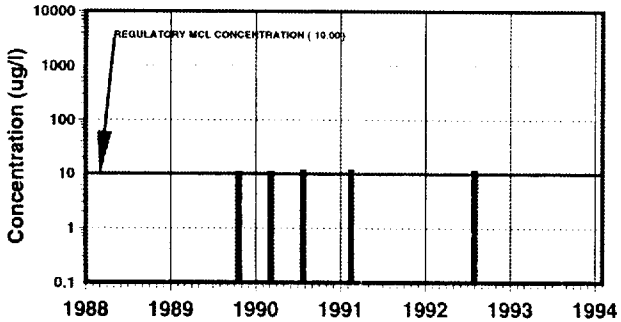
SAMPLING DEPTH (ft bgs)=(181-238)

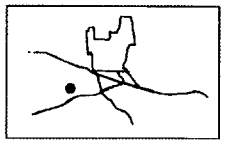


*18*_MCAS05

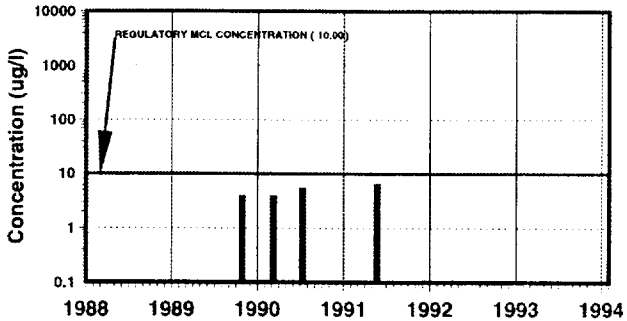
SAMPLING DEPTH (ft bgs)=(142-148)

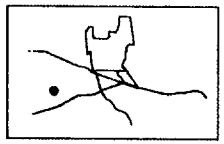


*18*_MCAS06

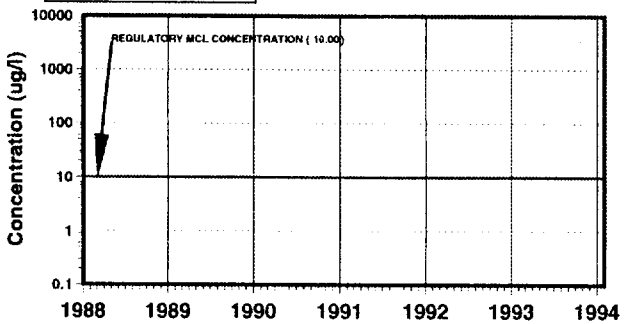
SAMPLING DEPTH (ft bgs)=(167-222)

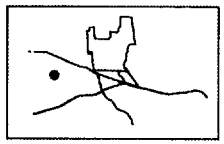


*18*_MCAS08

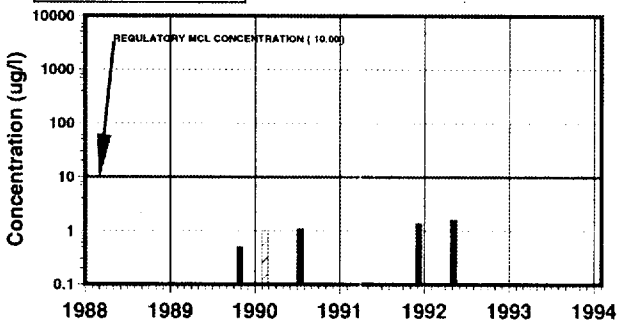
SAMPLING DEPTH (ft bgs)=(392-410)

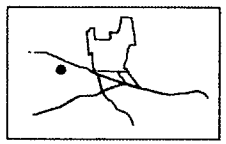


*18*_MCAS09

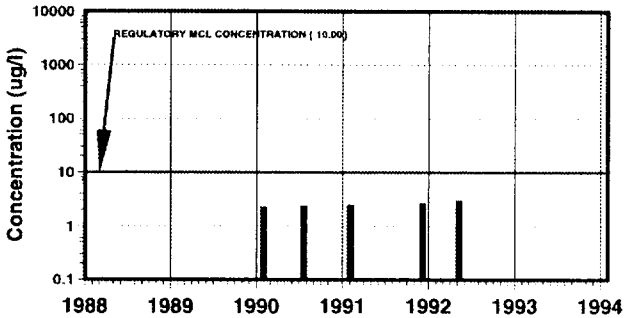
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

SAMPLING DEPTH (ft bgs)=(355-375)

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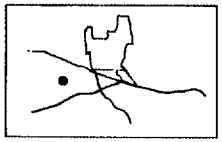
# CAS EL TORO Phase I RI Technical Memorandum OCWD - . .OUND WATER QUALITY DATA

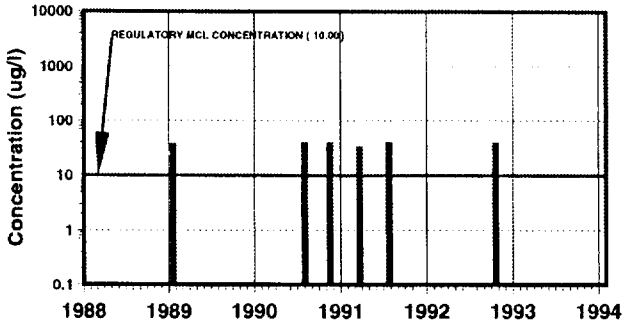
## NITRATE AS N Concentration

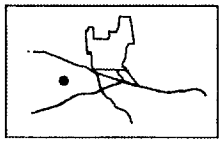
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS07

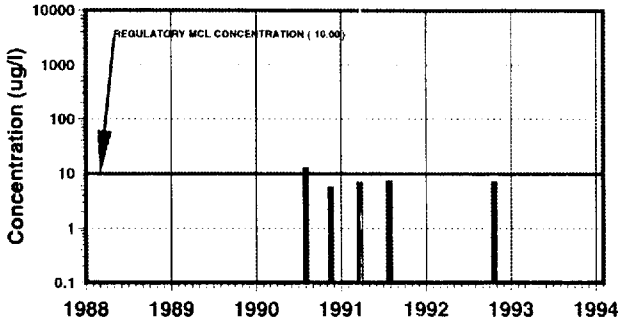
SAMPLING DEPTH (ft bgs)=(94)

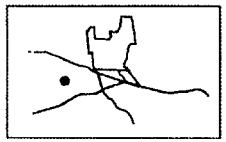


*18*_MCAS07

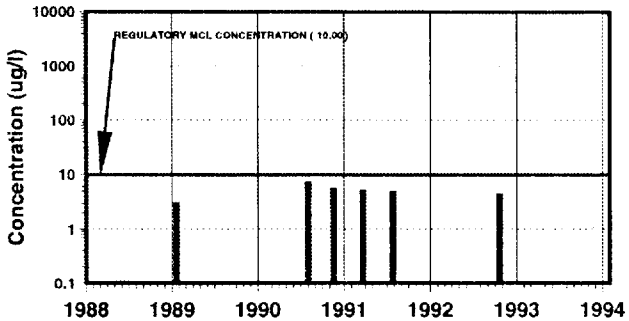
SAMPLING DEPTH (ft bgs)=(194)

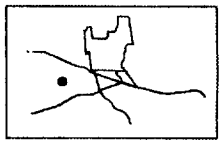


*18*_MCAS07

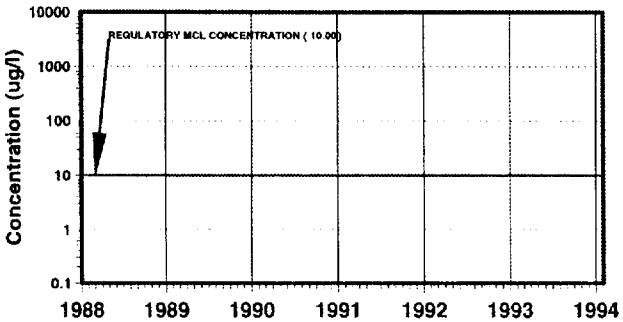
SAMPLING DEPTH (ft bgs)=(354)

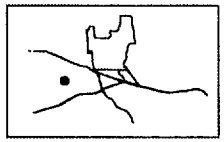


*18*_MCAS07

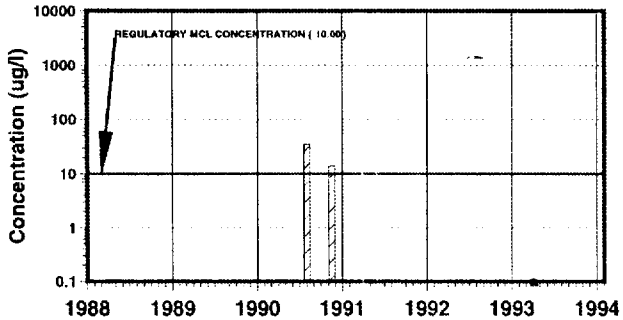
SAMPLING DEPTH (ft bgs)=(444)

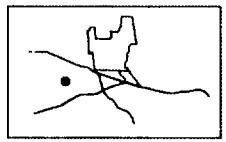


*18*_MCAS07

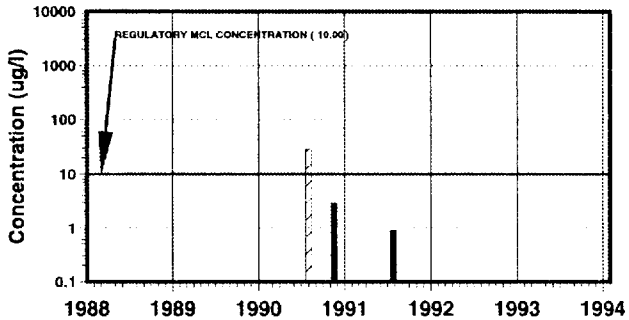
SAMPLING DEPTH (ft bgs)=(514)

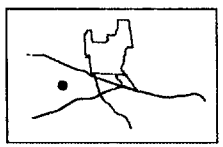


*18*_MCAS07

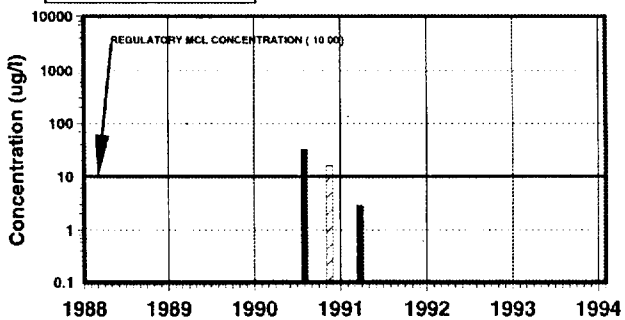
SAMPLING DEPTH (ft bgs)=(804)

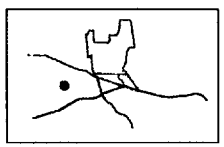


*18*_MCAS07

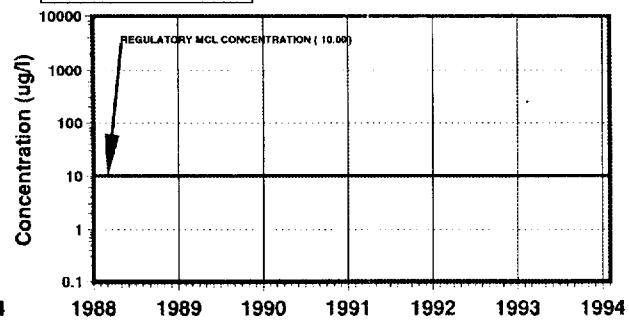
SAMPLING DEPTH (ft bgs)=(914)



*18*_MCAS07

SAMPLING DEPTH (ft bgs)=(984)

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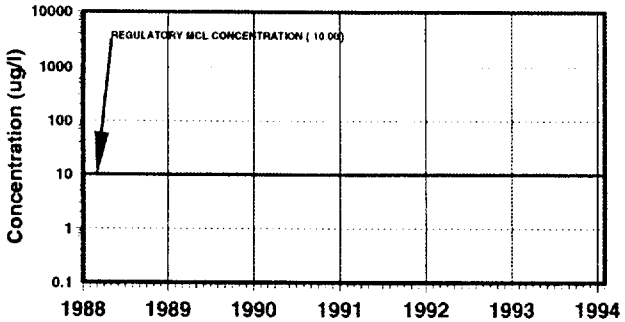
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

*NITRATE AS N Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_MW10115

*NO X,Y DATA*

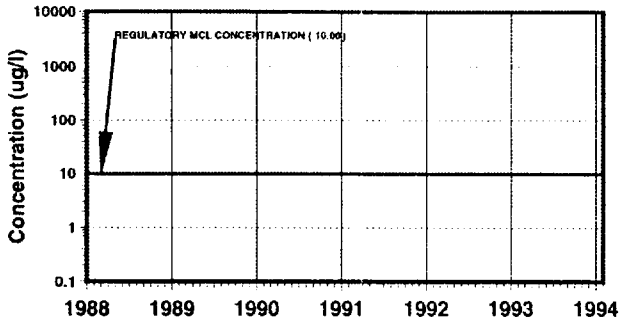
SAMPLING DEPTH (ft bgs)=(115)




*18*_MW10210

*NO X,Y DATA*

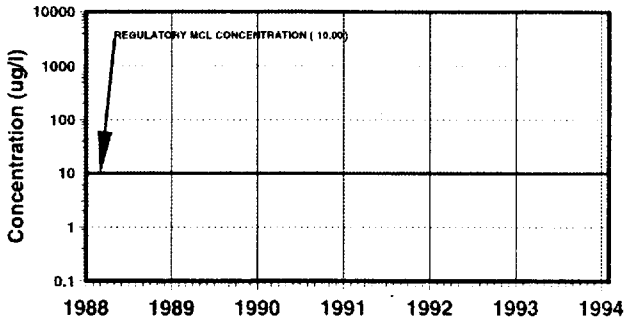
SAMPLING DEPTH (ft bgs)=(210)




*18*_MW10335

*NO X,Y DATA*

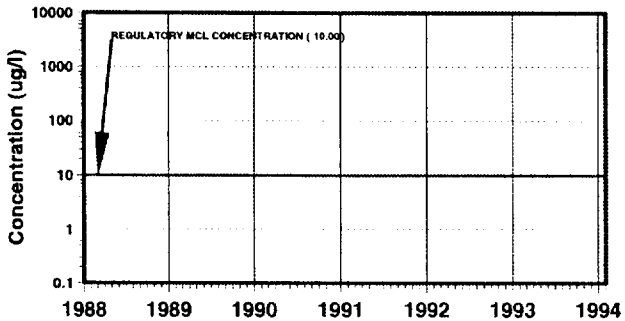
SAMPLING DEPTH (ft bgs)=(335)

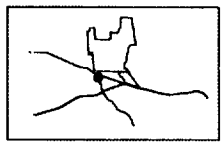



*18*_NLAKE

*NO X,Y DATA*

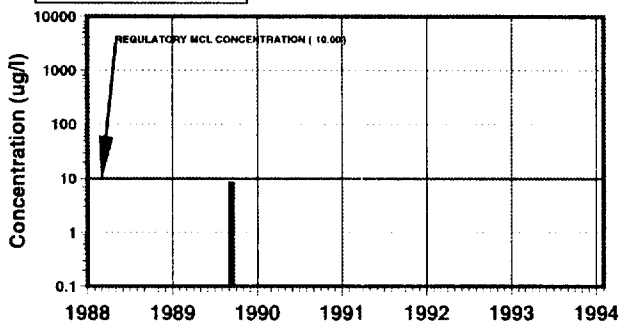
SAMPLING DEPTH (ft bgs)=(370-890)

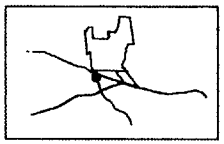


*18*_RW3

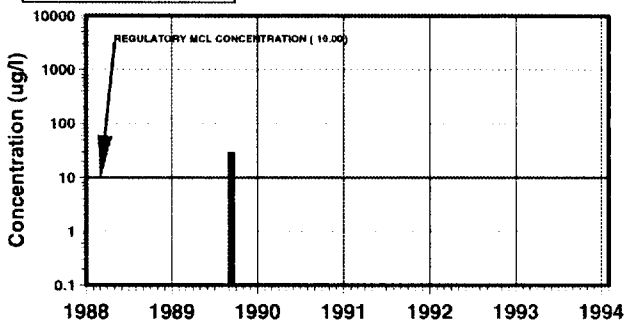
SAMPLING DEPTH (ft bgs)=(370-390)



*18*_RW4

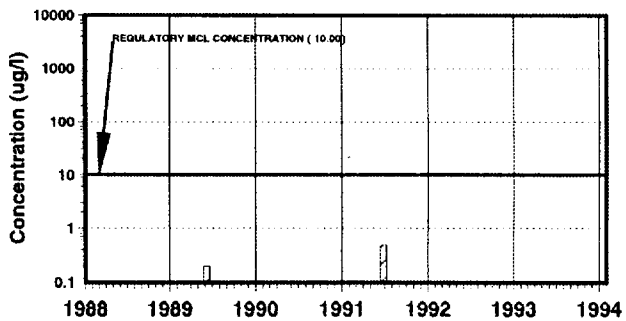
SAMPLING DEPTH (ft bgs)=(65-85)




*18*_SLAKE

*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(210)

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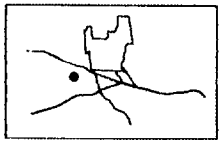
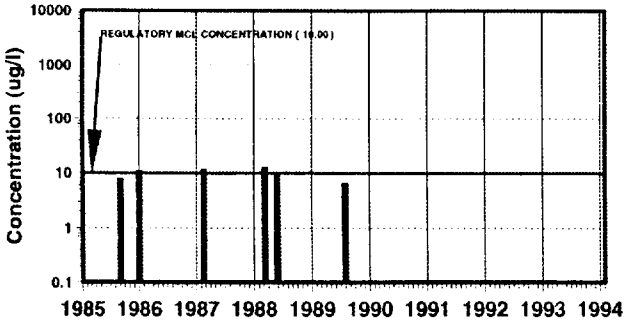
## NITRATE AS N Concentration

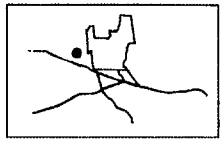
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

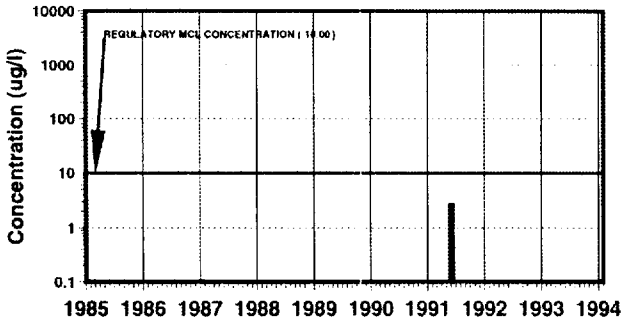
SAMPLING DEPTH (ft bgs)=(263-1503)

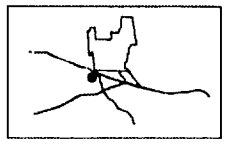


### 18_TIC037

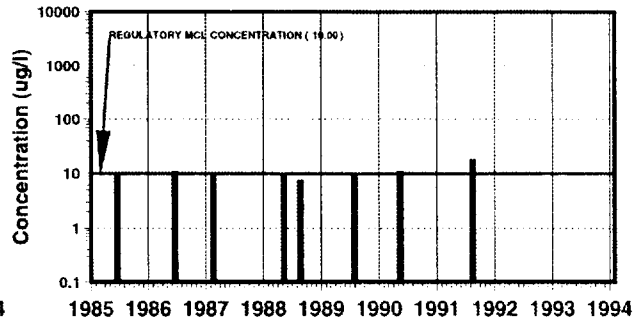
SAMPLING DEPTH (ft bgs)=(255-1560)

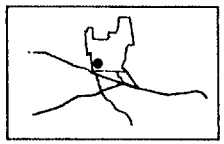


### 18_TIC047

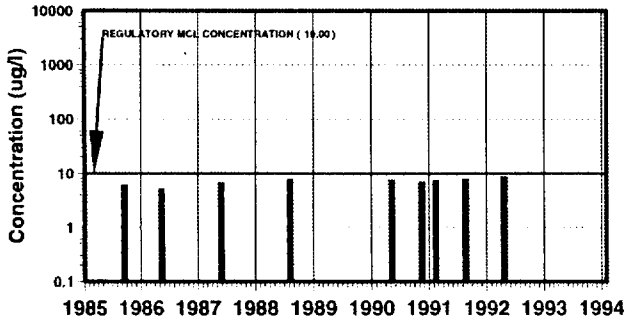
SAMPLING DEPTH (ft bgs)=(268-1107)

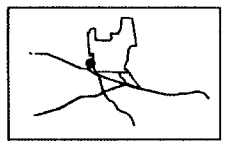


### 18_TIC055

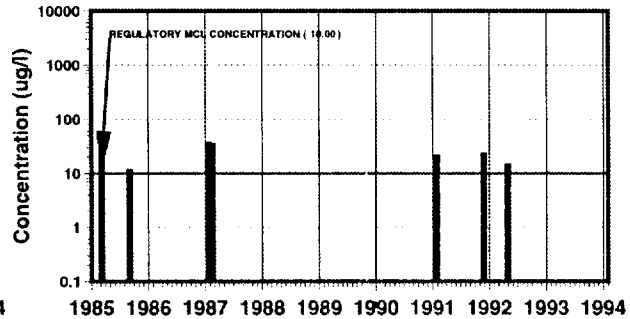
SAMPLING DEPTH (ft bgs)=(496)

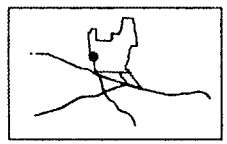


### 18_TIC056

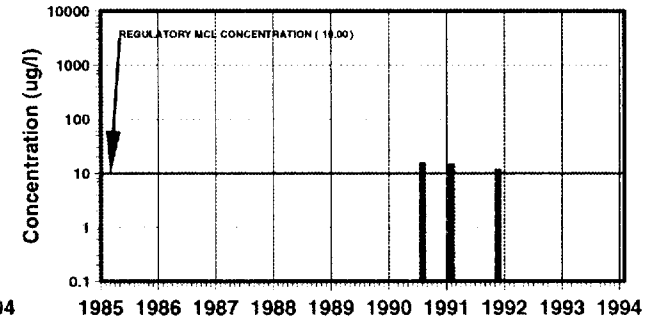
SAMPLING DEPTH (ft bgs)=(336-647)



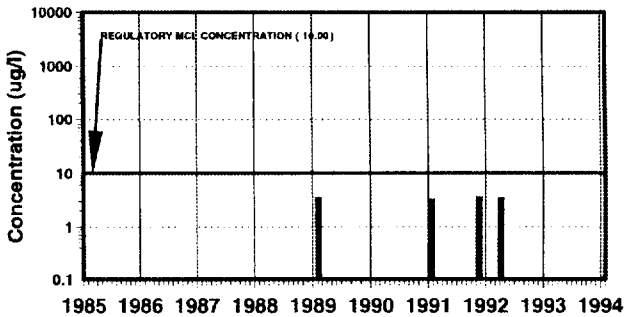
### 18_TIC061

SAMPLING DEPTH (ft bgs)=(248-694)



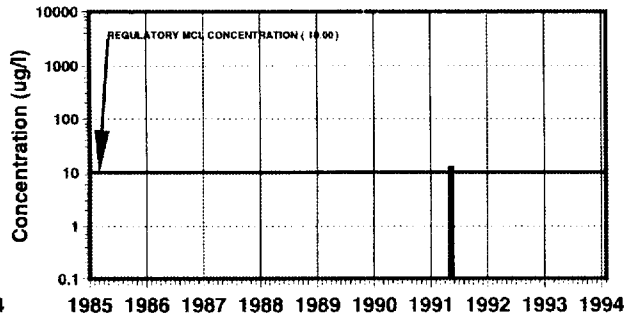
### 18_TIC068

SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

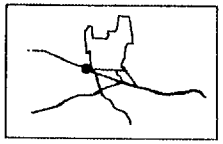
SAMPLING DEPTH (ft bgs)=(274-403)




Sat May 1 18:48:25 1993

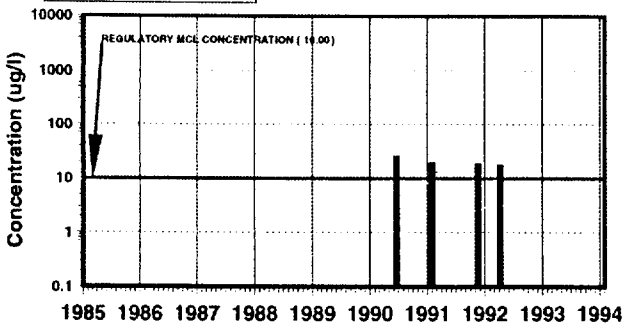
## MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## NITRATE AS N Concentration

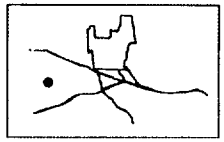
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

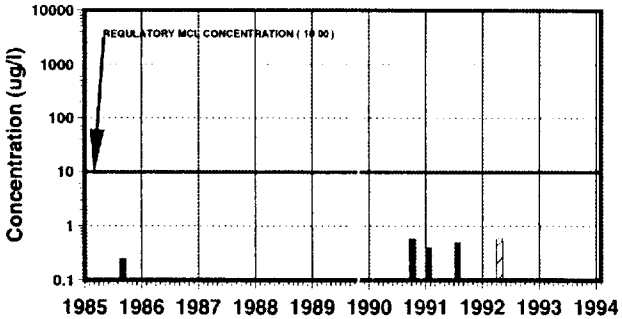
SAMPLING DEPTH (ft bgs)=(210-280)

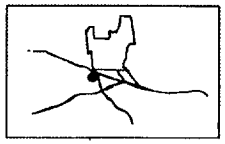


*18*_TIC078

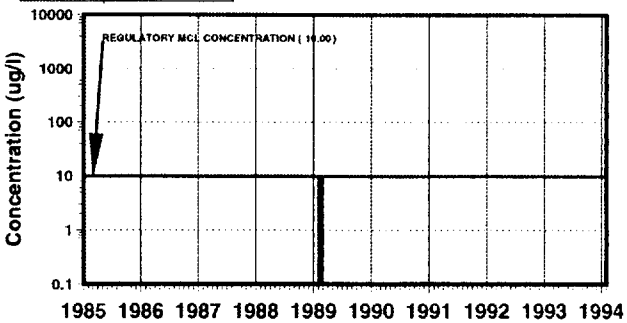
SAMPLING DEPTH (ft bgs)=(410-690)



*18*_TIC083

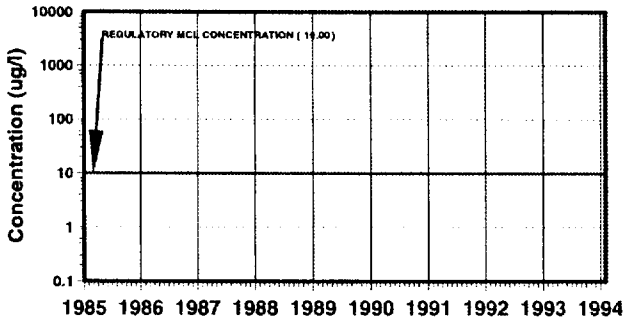
SAMPLING DEPTH (ft bgs)=(261-402)

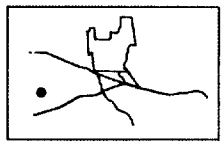



*18*_TIC098

*NO X,Y DATA*

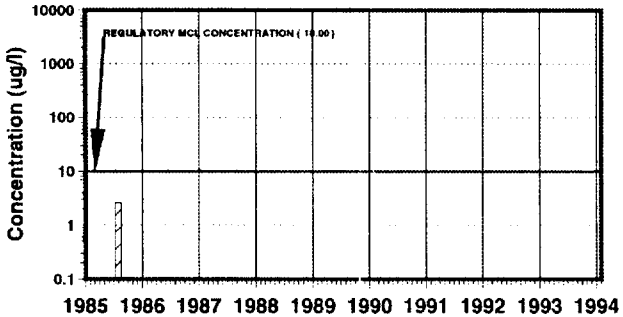
SAMPLING DEPTH (ft bgs)=(261-402)

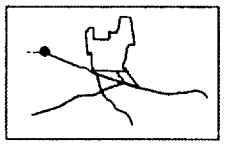


*18*_TIC106

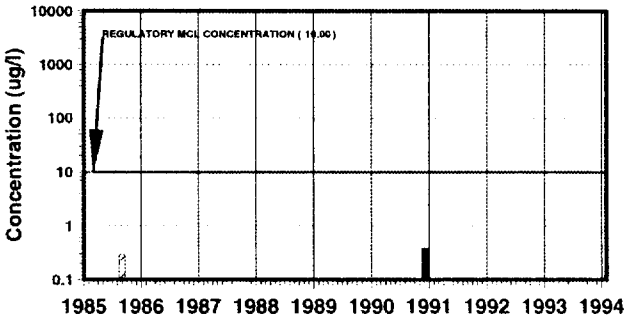
SAMPLING DEPTH (ft bgs)=(405-715)

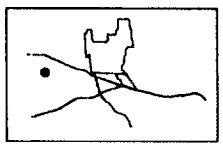


*18*_TIC107

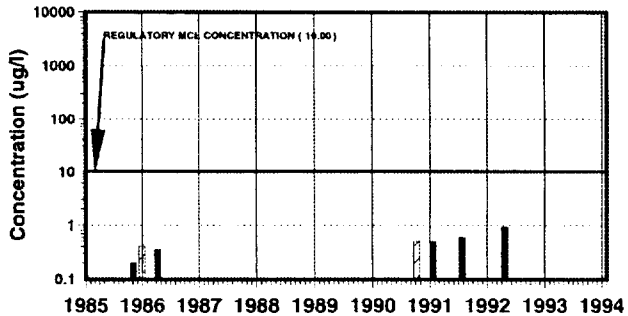
SAMPLING DEPTH (ft bgs)=(230-980)

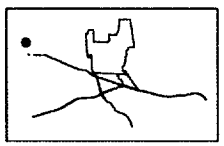


*18*_TIC108

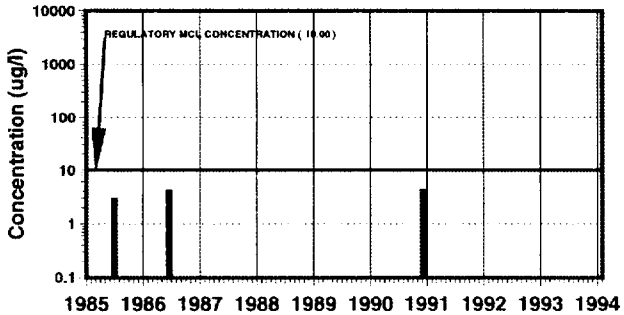
SAMPLING DEPTH (ft bgs)=(960)



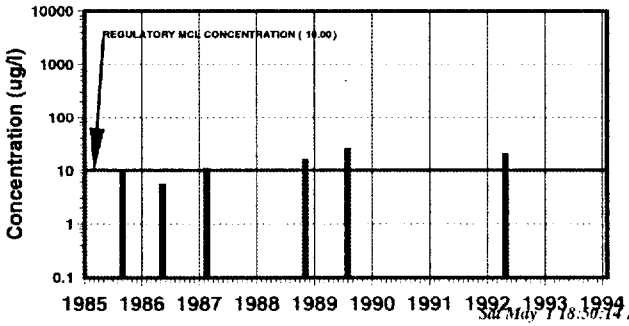
*18*_TIC109

SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



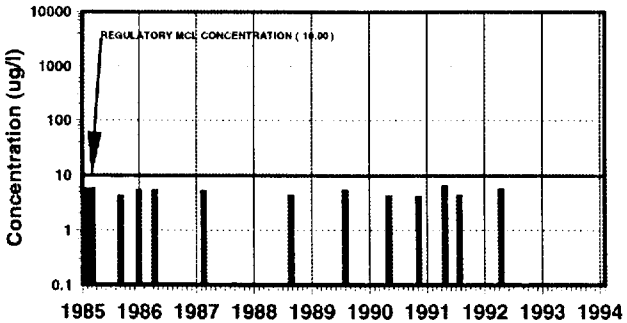

*Sat May 1 18:50:14 1993*

## NITRATE AS N Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

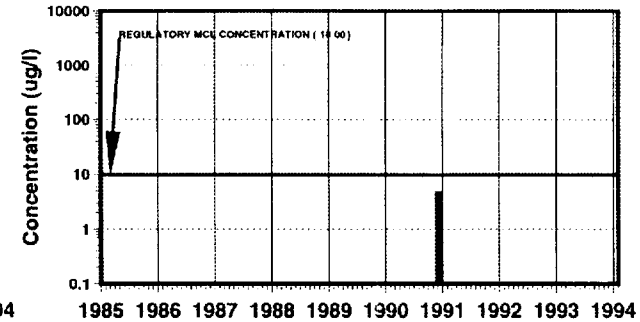
### 18_TIC111

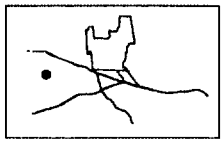
SAMPLING DEPTH (ft bgs)=(750)



### 18_TIC112

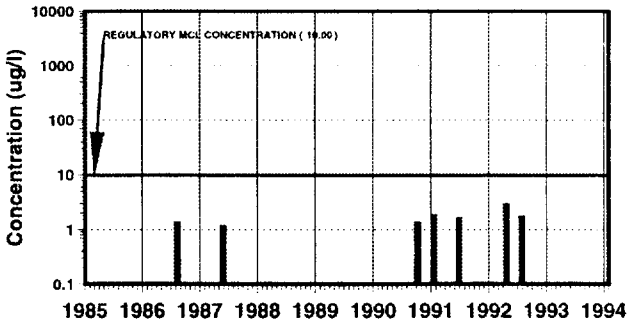
SAMPLING DEPTH (ft bgs)=(750)

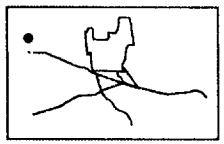


### 18_TIC113

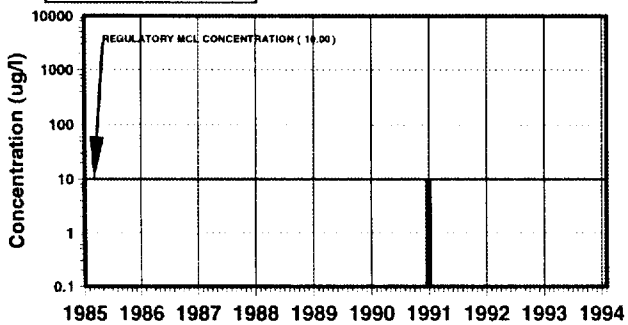
SAMPLING DEPTH (ft bgs)=(280-1080)

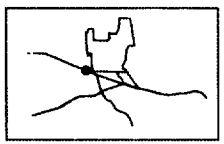


### 18_TIC114

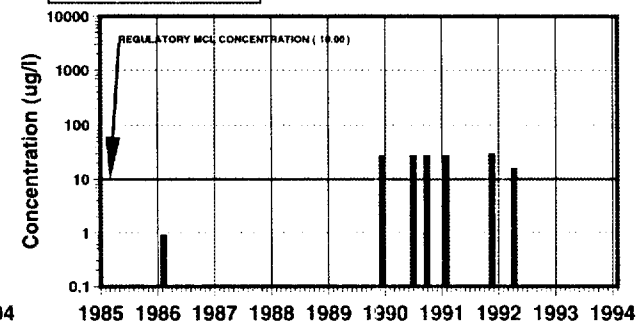
SAMPLING DEPTH (ft bgs)=(280)

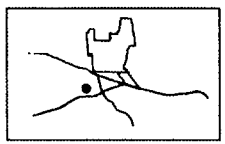


### 18_TIC117

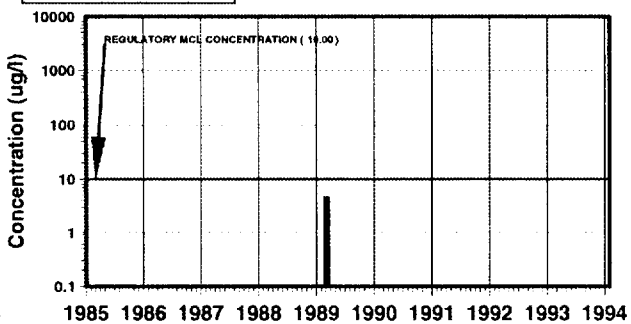
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



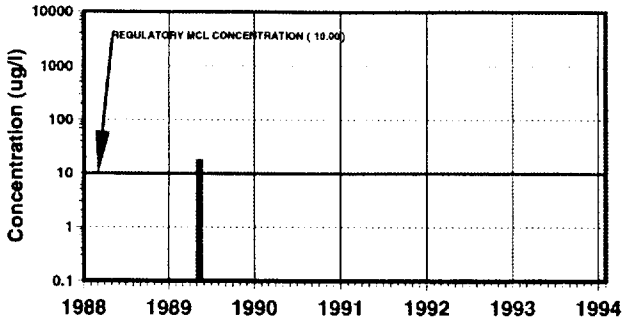
## *NITRATE AS N Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_CN2

*NO X,Y DATA*

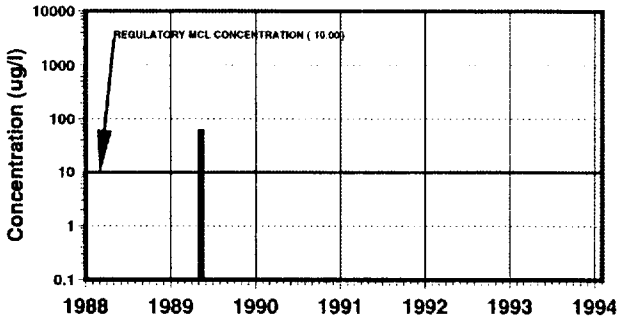
SAMPLING DEPTH (ft bgs)=(75-95)




### *18*_CN5

*NO X,Y DATA*

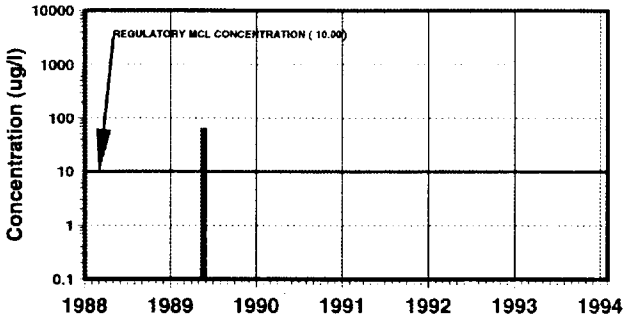
SAMPLING DEPTH (ft bgs)=(70-90)




### *18*_CN12

*NO X,Y DATA*

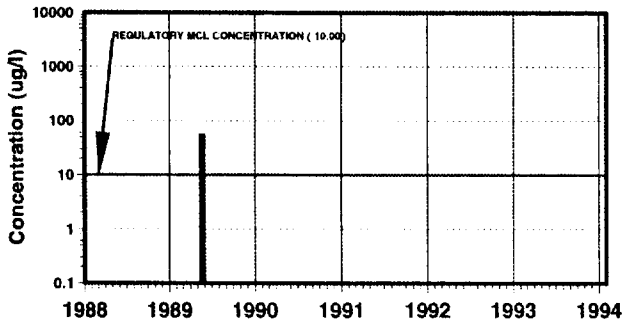
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_CN13

*NO X,Y DATA*

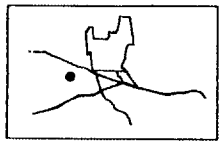
SAMPLING DEPTH (ft bgs)=(60-80)




*Sat May 1 18:53:30 1993*

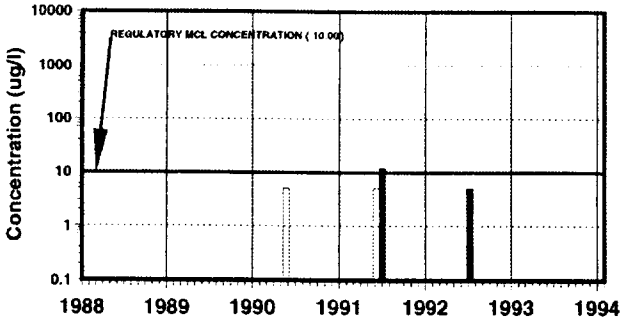
## *SELENIUM Concentration*

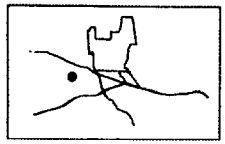
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

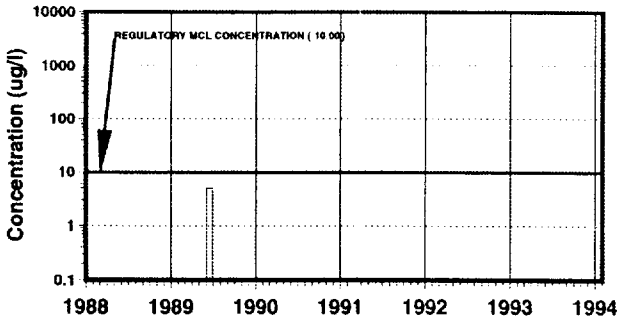
SAMPLING DEPTH (ft bgs)=(220-490)



*18*_ET1

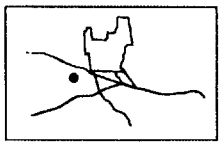
SAMPLING DEPTH (ft bgs)=(200)



## MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA

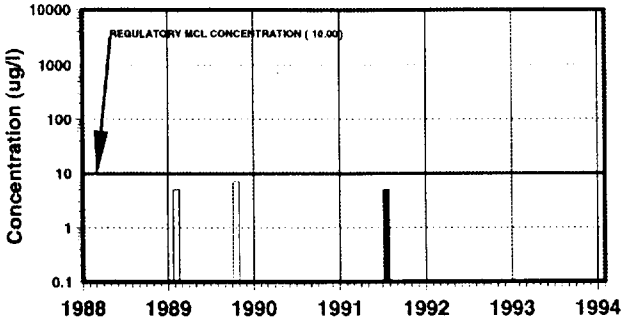
## SELENIUM Concentration

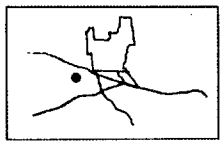
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



**18_MCAS01**

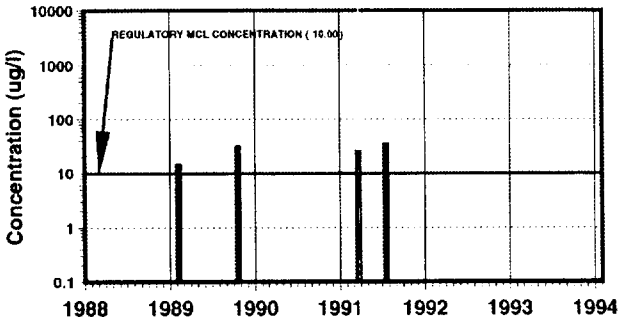
SAMPLING DEPTH (ft bgs)=(65)

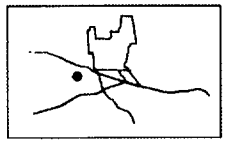


**18_MCAS01**

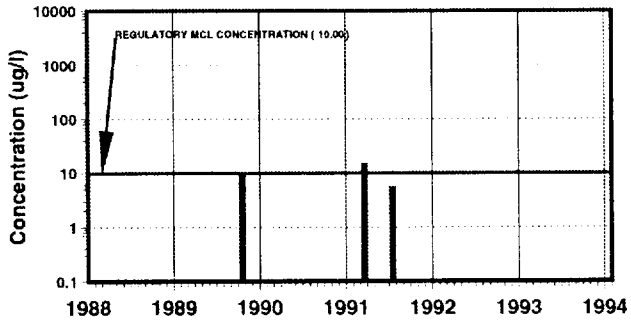
SAMPLING DEPTH (ft bgs)=(155)

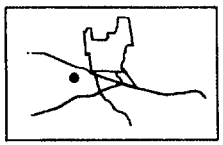


**18_MCAS01**

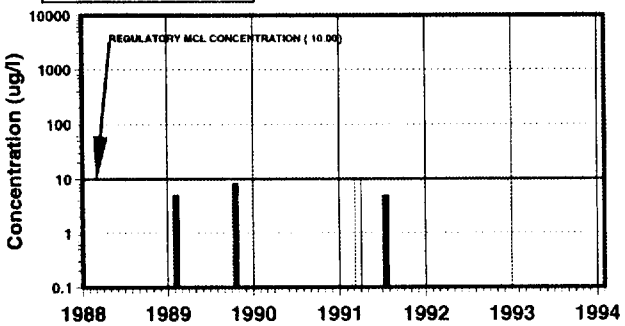
SAMPLING DEPTH (ft bgs)=(215)

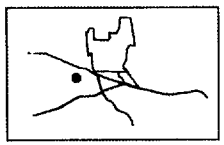


**18_MCAS01**

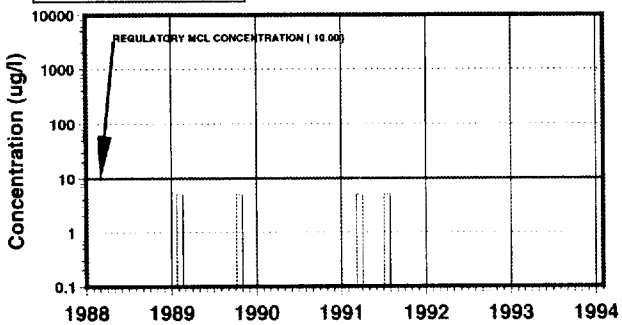
SAMPLING DEPTH (ft bgs)=(275)

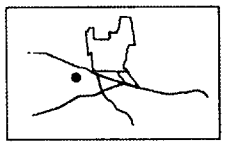


**18_MCAS01**

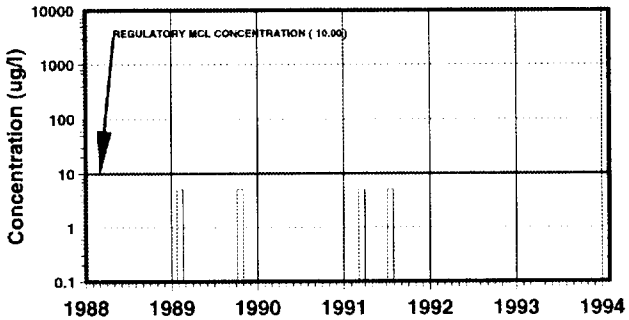
SAMPLING DEPTH (ft bgs)=(335)

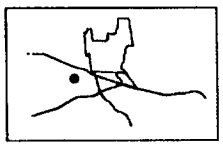


**18_MCAS01**

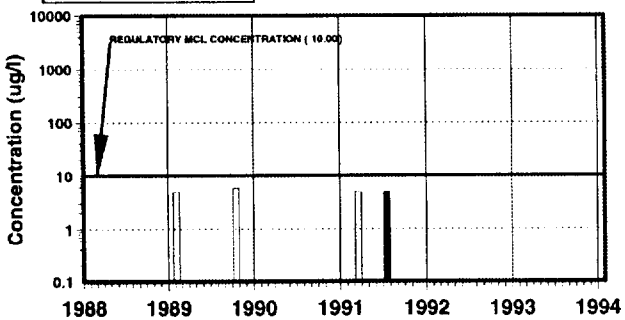
SAMPLING DEPTH (ft bgs)=(455)



**18_MCAS01**

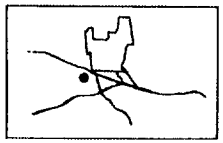
SAMPLING DEPTH (ft bgs)=(545)




*Sat May 1 02:36:44 1993*

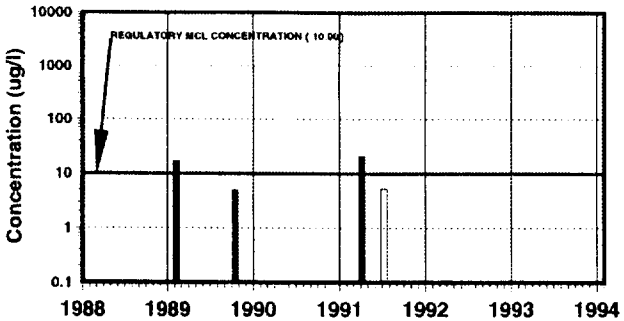
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

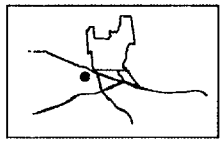
*SELENIUM Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

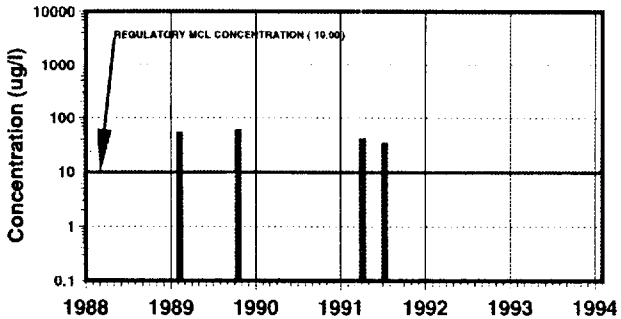
SAMPLING DEPTH (ft bgs)=(45)

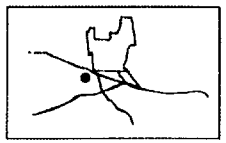


*18*_MCAS02

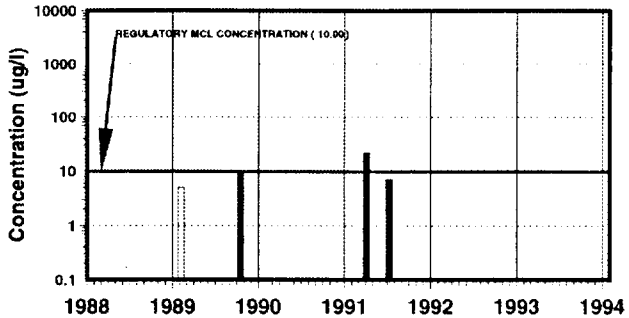
SAMPLING DEPTH (ft bgs)=(135)

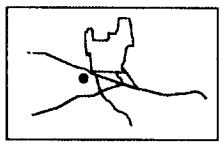


*18*_MCAS02

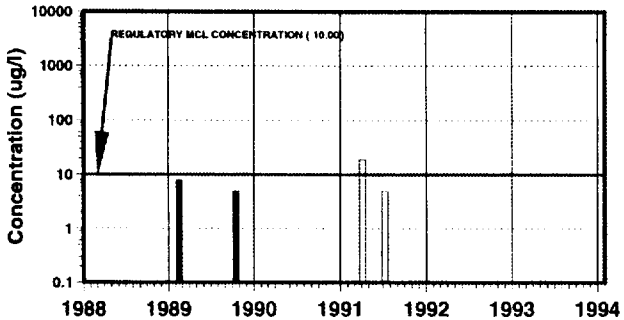
SAMPLING DEPTH (ft bgs)=(205)

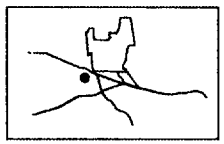


*18*_MCAS02

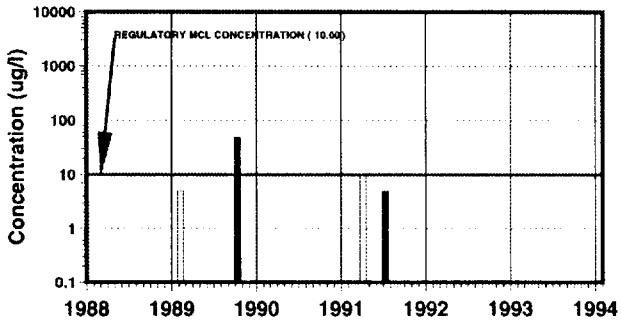
SAMPLING DEPTH (ft bgs)=(375)

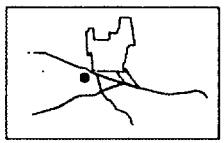


*18*_MCAS02

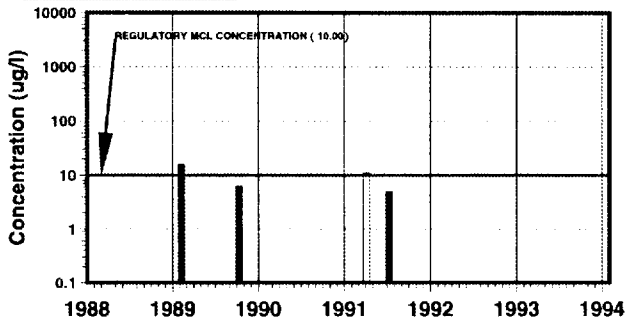
SAMPLING DEPTH (ft bgs)=(425)

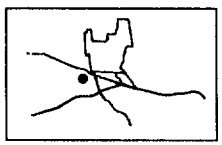


*18*_MCAS02

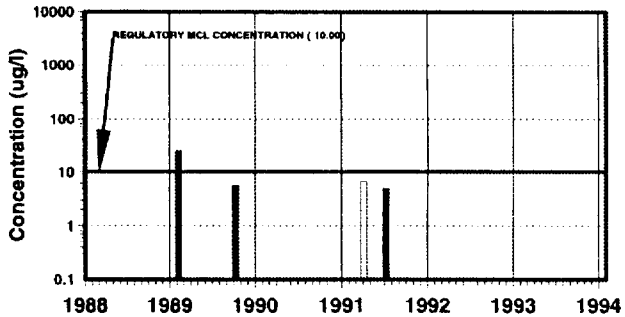
SAMPLING DEPTH (ft bgs)=(495)

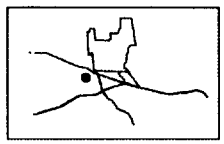


*18*_MCAS02

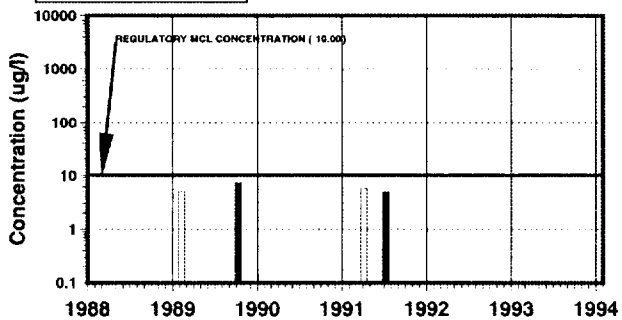
SAMPLING DEPTH (ft bgs)=(555)



*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(625)



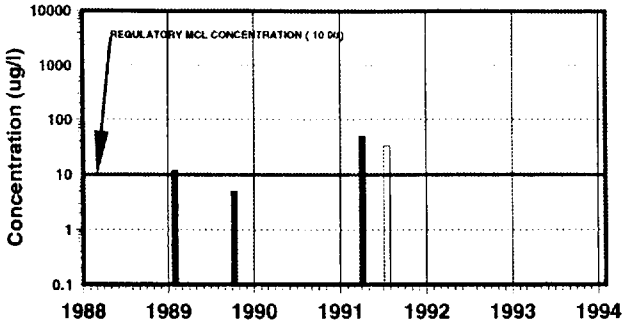

*Sat May 1 02:38:18 1993*

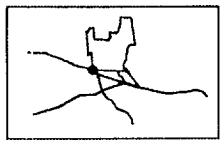
## SELENIUM Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

18_MCAS03

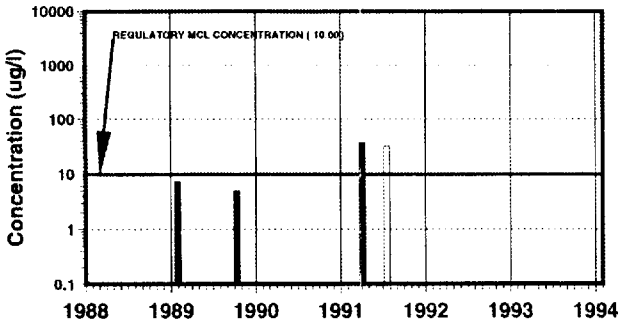
SAMPLING DEPTH (ft bgs)=(90)

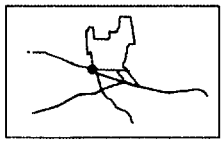


18_MCAS03

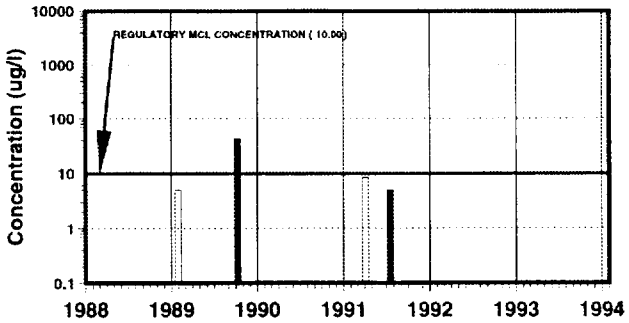
SAMPLING DEPTH (ft bgs)=(165)

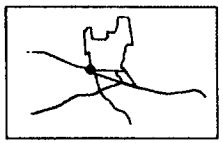


18_MCAS03

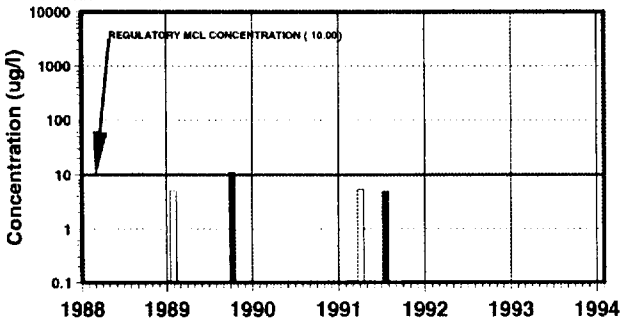
SAMPLING DEPTH (ft bgs)=(225)



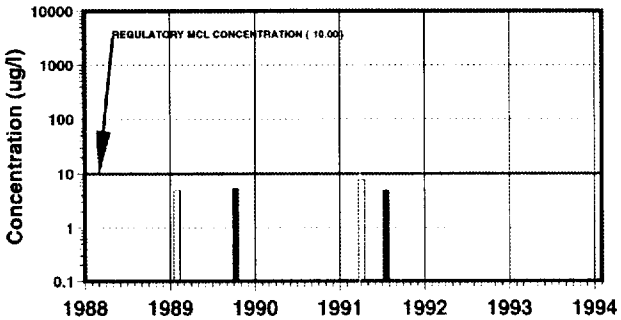
18_MCAS03

SAMPLING DEPTH (ft bgs)=(345)



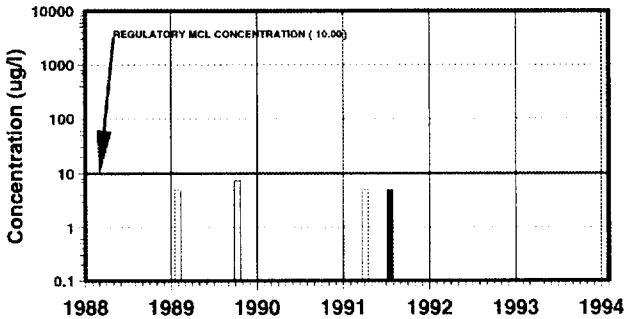
18_MCAS03

SAMPLING DEPTH (ft bgs)=(425)



18_MCAS03

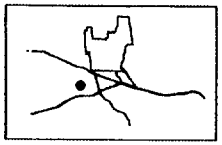
SAMPLING DEPTH (ft bgs)=(495)



## *MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

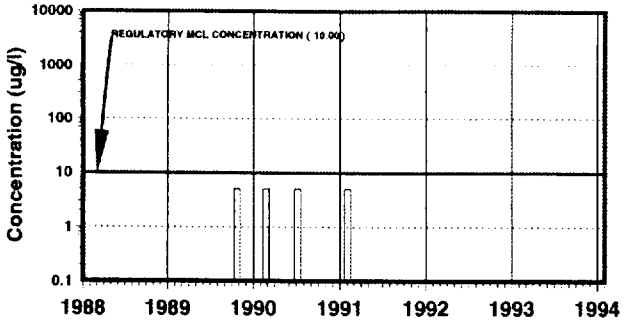
## *SELENIUM Concentration*

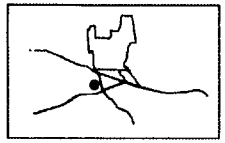
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

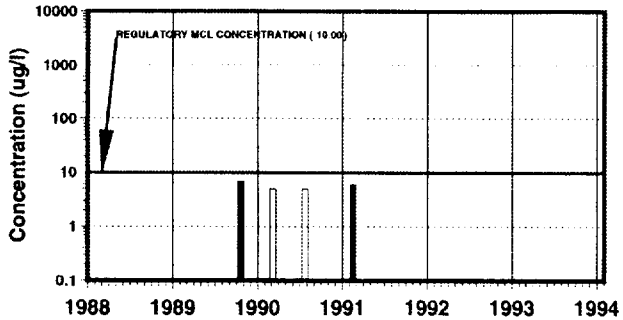
SAMPLING DEPTH (ft bgs)=(181-238)

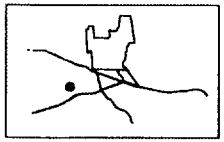


*18*_MCAS05

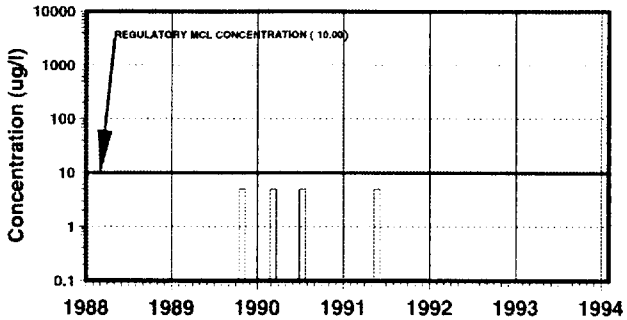
SAMPLING DEPTH (ft bgs)=(142-148)

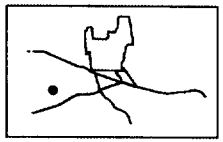


*18*_MCAS06

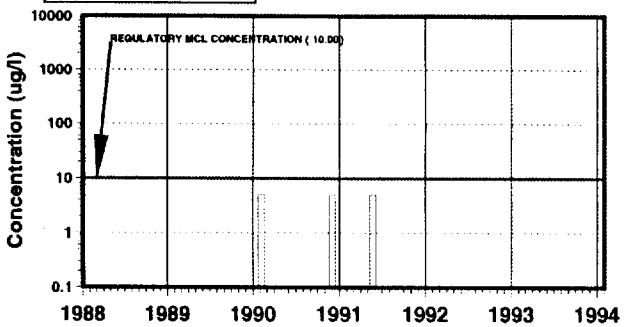
SAMPLING DEPTH (ft bgs)=(167-222)

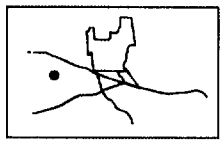


*18*_MCAS08

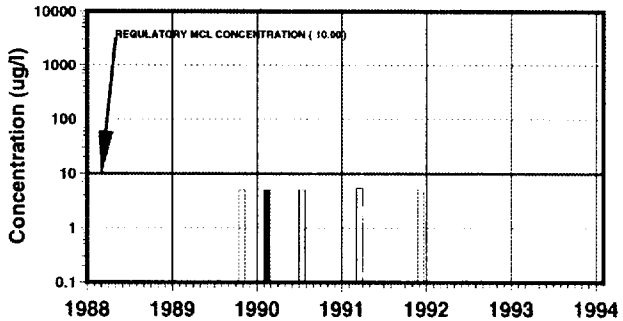
SAMPLING DEPTH (ft bgs)=(392-410)

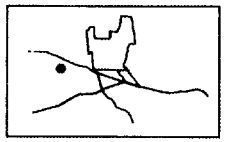


*18*_MCAS09

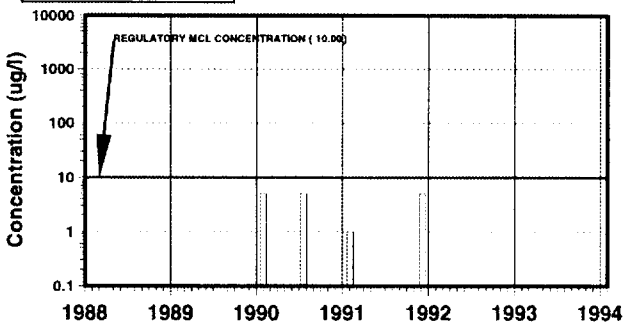
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

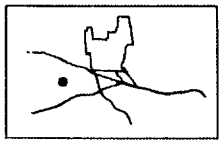
SAMPLING DEPTH (ft bgs)=(355-375)




*Sat May 1 02:41:22 1993*

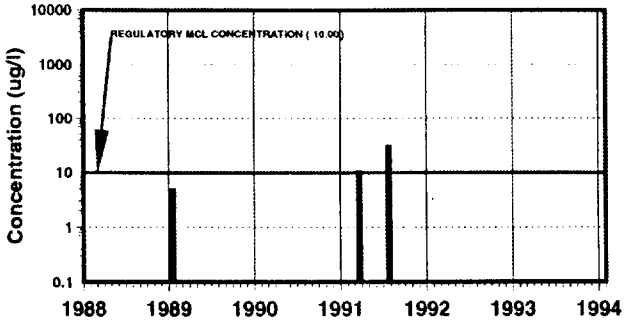
## SELENIUM Concentration

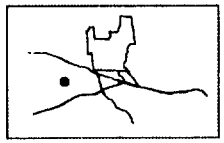
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

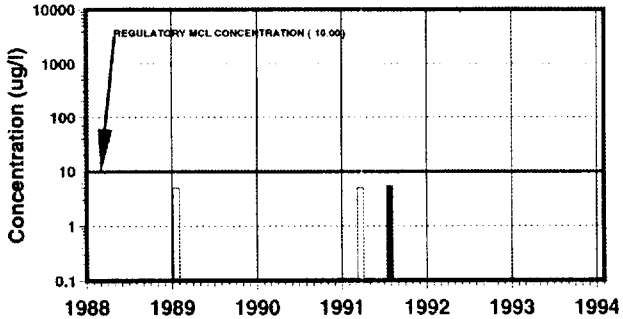
SAMPLING DEPTH (ft bgs)=(94)

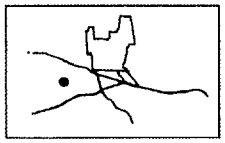


18_MCAS07

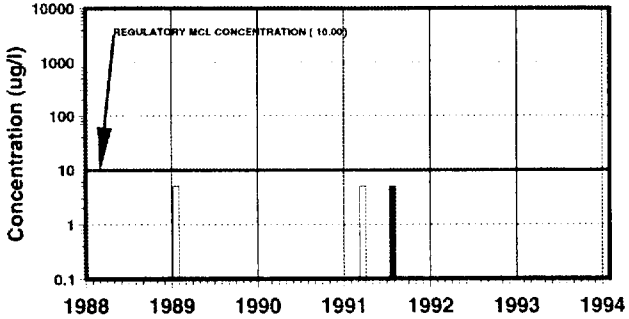
SAMPLING DEPTH (ft bgs)=(194)

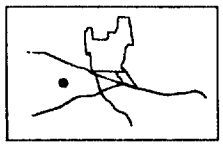


18_MCAS07

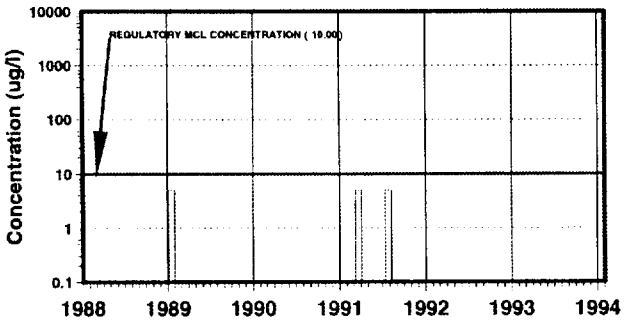
SAMPLING DEPTH (ft bgs)=(354)

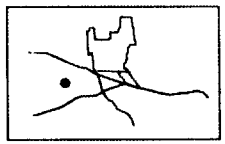


18_MCAS07

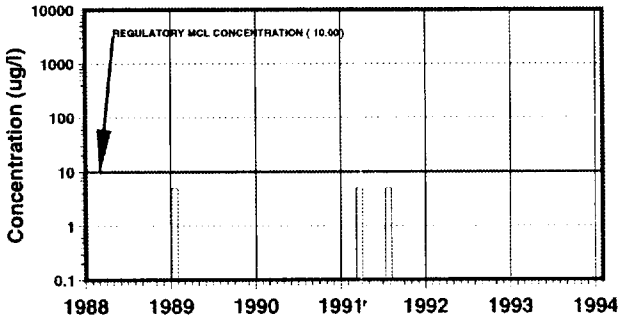
SAMPLING DEPTH (ft bgs)=(444)

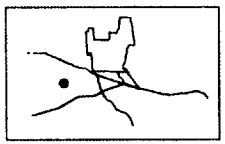


18_MCAS07

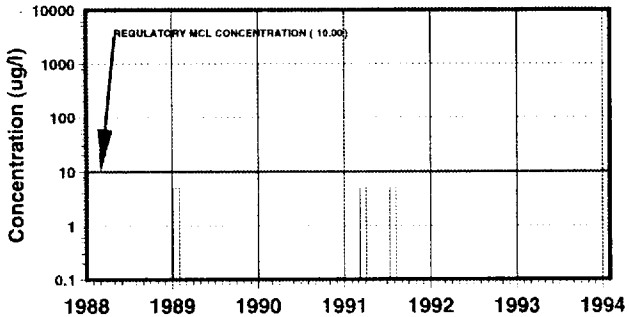
SAMPLING DEPTH (ft bgs)=(514)

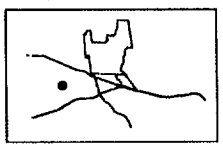


18_MCAS07

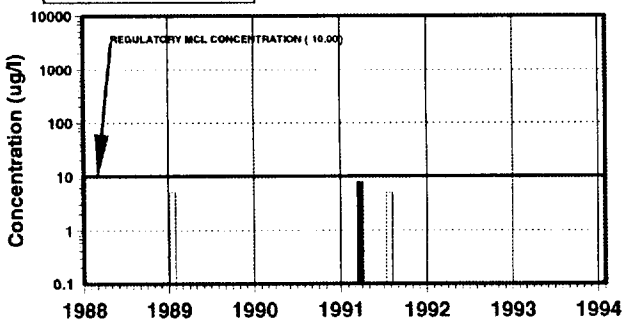
SAMPLING DEPTH (ft bgs)=(804)

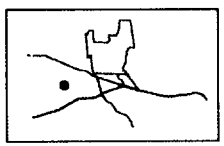


18_MCAS07

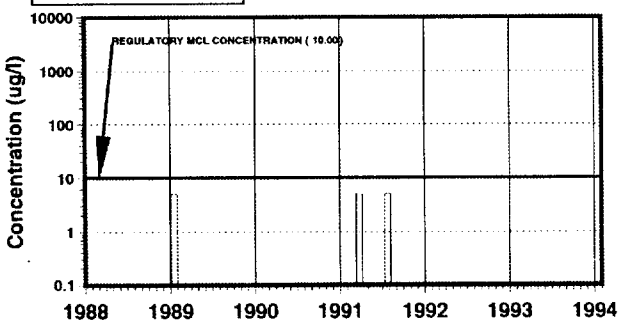
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)




Sat May 1 18:03:36 1993

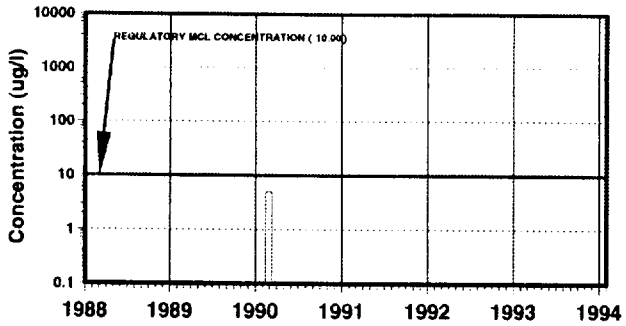
## *SELENIUM Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

*18*_MW10115

*NO X,Y DATA*

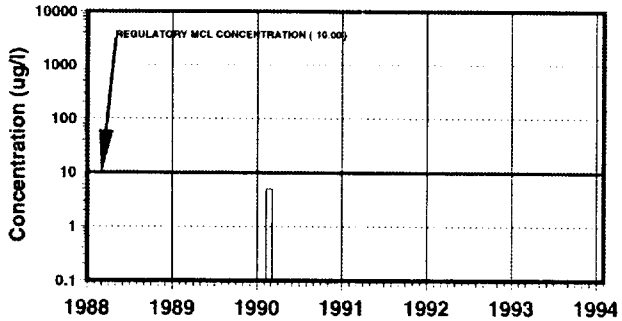
SAMPLING DEPTH (ft bgs)=(115)




*18*_MW10210

*NO X,Y DATA*

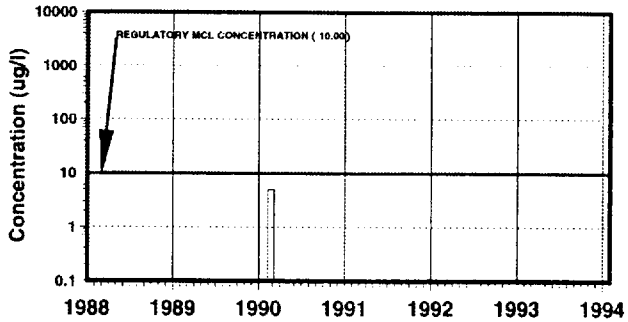
SAMPLING DEPTH (ft bgs)=(210)




*18*_MW10335

*NO X,Y DATA*

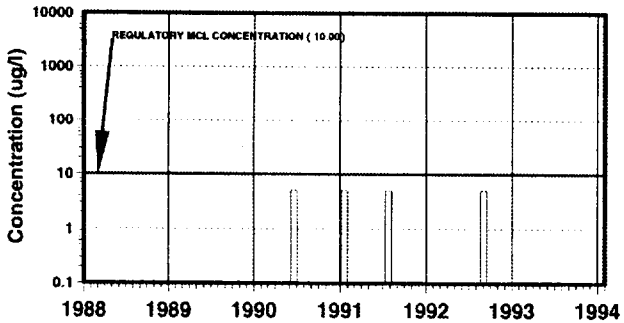
SAMPLING DEPTH (ft bgs)=(335)




*18*_NLAKE

*NO X,Y DATA*

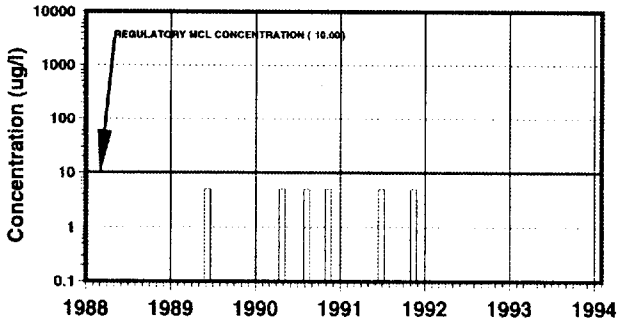
SAMPLING DEPTH (ft bgs)=(370-890)




*18*_SLAKE

*NO X,Y DATA*

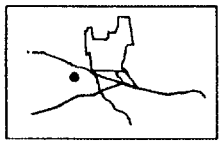
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 18:05:20 1993*

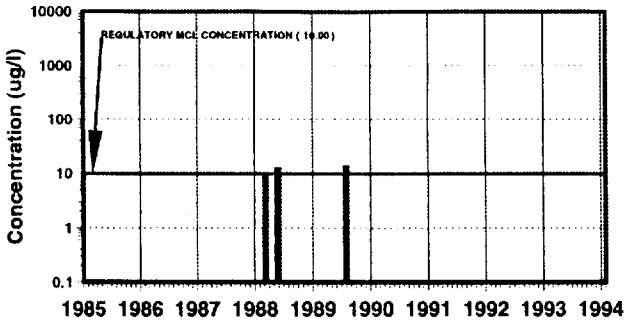
## SELENIUM Concentration

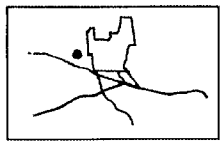
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



### 18_TIC035

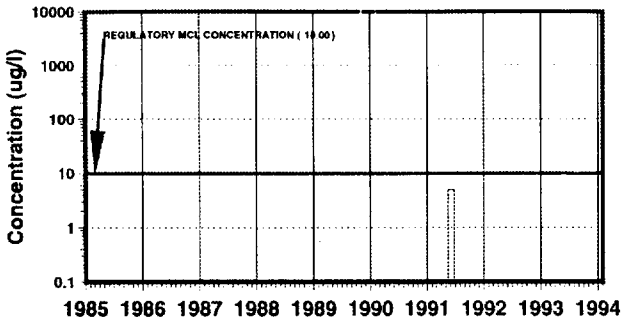
SAMPLING DEPTH (ft bgs)=(263-1503)

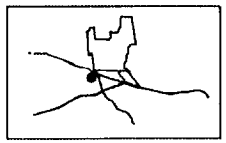


### 18_TIC037

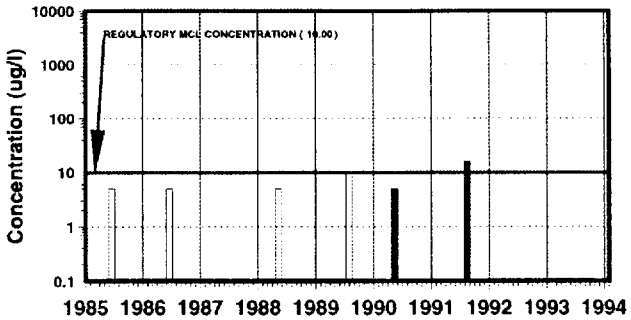
SAMPLING DEPTH (ft bgs)=(255-1560)



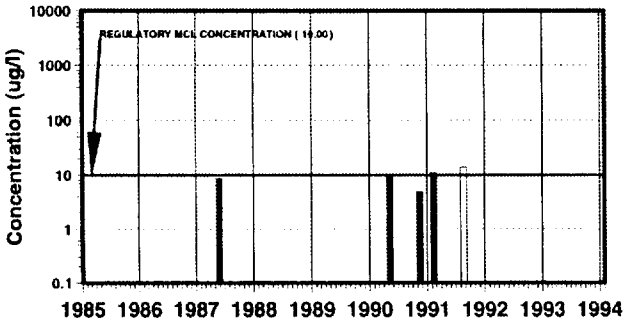
### 18_TIC047

SAMPLING DEPTH (ft bgs)=(268-1107)



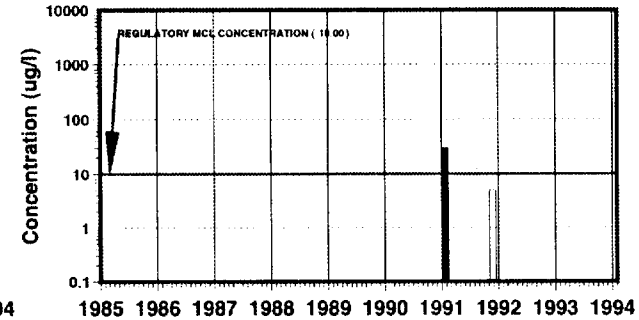
### 18_TIC055

SAMPLING DEPTH (ft bgs)=(496)



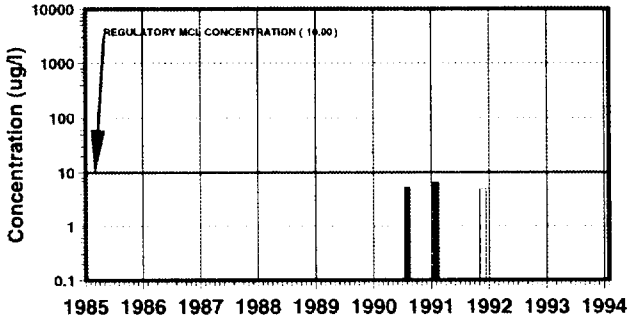
### 18_TIC056

SAMPLING DEPTH (ft bgs)=(336-647)



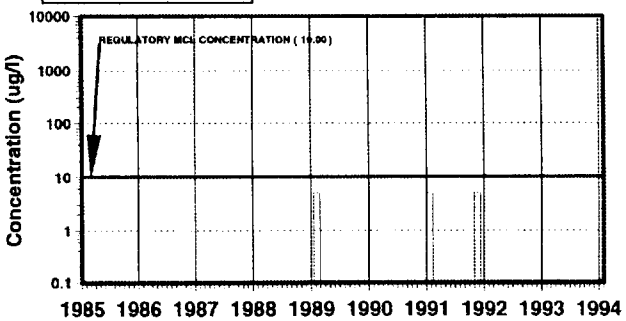
### 18_TIC061

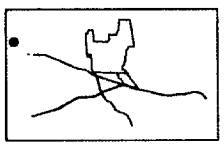
SAMPLING DEPTH (ft bgs)=(248-694)



### 18_TIC068

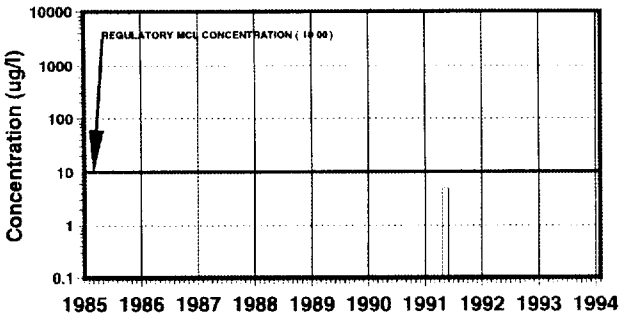
SAMPLING DEPTH (ft bgs)=(274-403)



### 18_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)

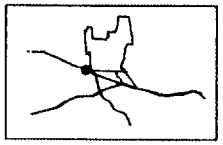



Sat May 1 02:44:19 1993

# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA

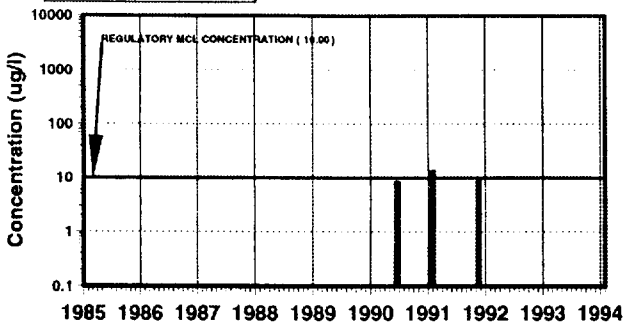
## SELENIUM Concentration

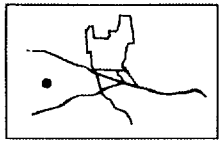
*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

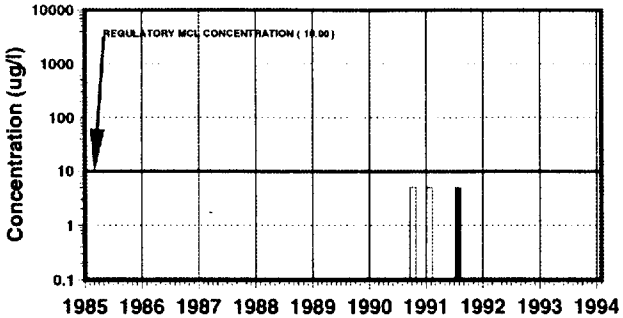
SAMPLING DEPTH (ft bgs)=(210-280)

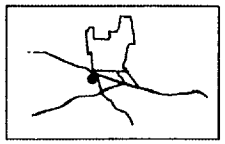


*18*_TIC078

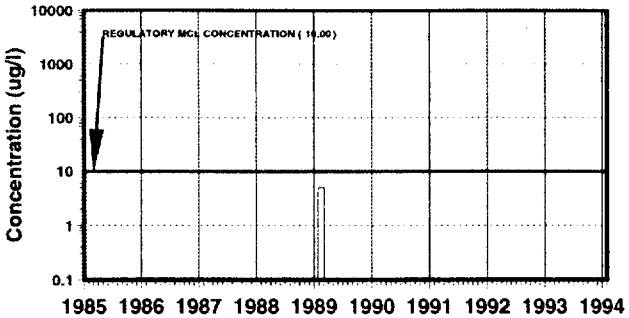
SAMPLING DEPTH (ft bgs)=(410-690)



*18*_TIC083

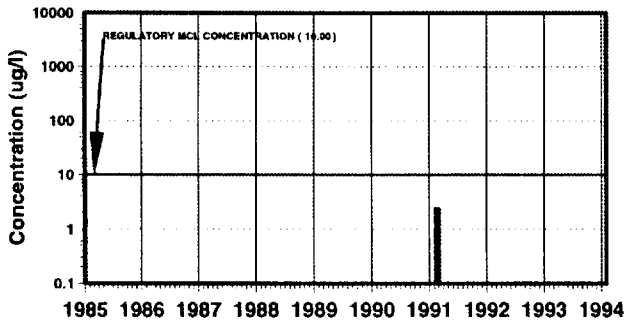
SAMPLING DEPTH (ft bgs)=(261-402)

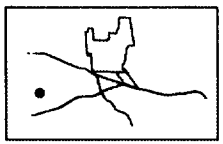



*18*_TIC098

*NO X,Y DATA*

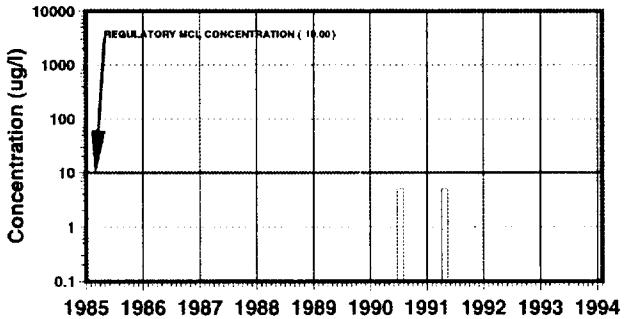
SAMPLING DEPTH (ft bgs)=(261-402)

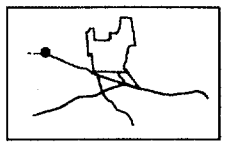


*18*_TIC106

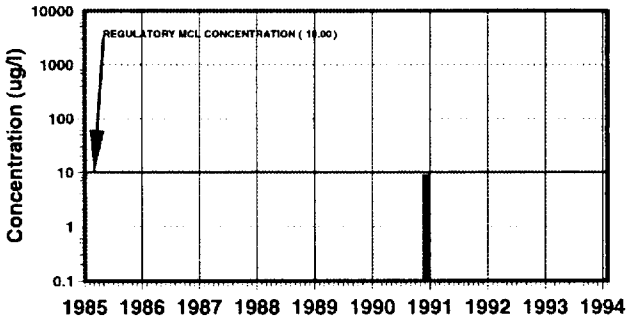
SAMPLING DEPTH (ft bgs)=(405-715)

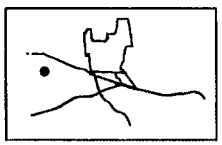


*18*_TIC107

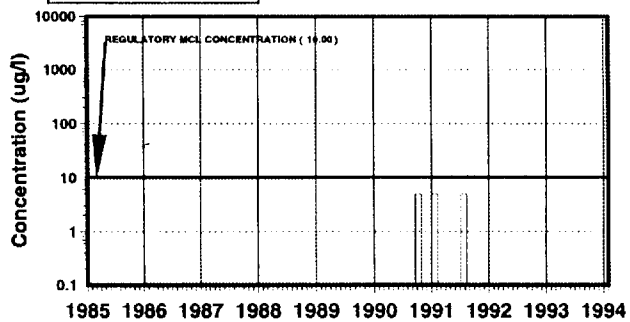
SAMPLING DEPTH (ft bgs)=(230-980)

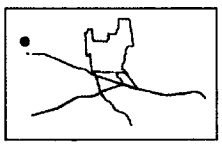


*18*_TIC108

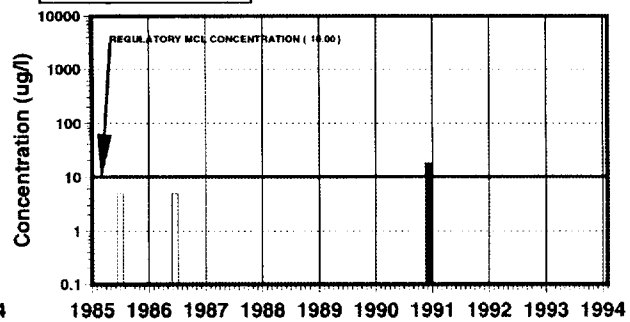
SAMPLING DEPTH (ft bgs)=(960)

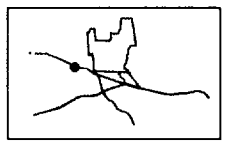


*18*_TIC109

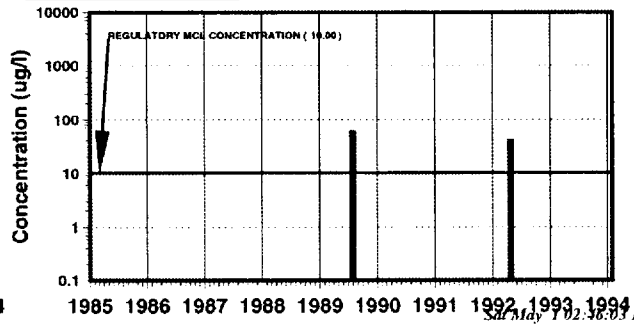
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



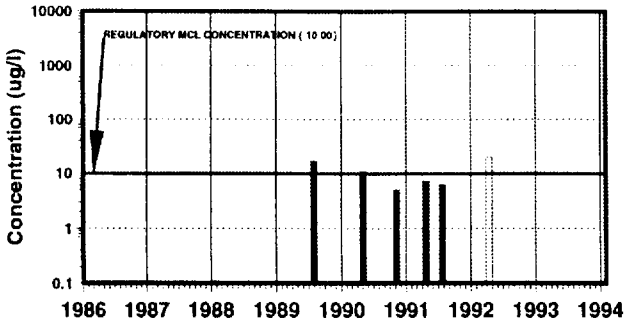

*Sat May 1 02:46:03 1993*

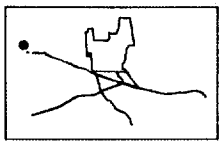
## SELENIUM Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

18_TIC111

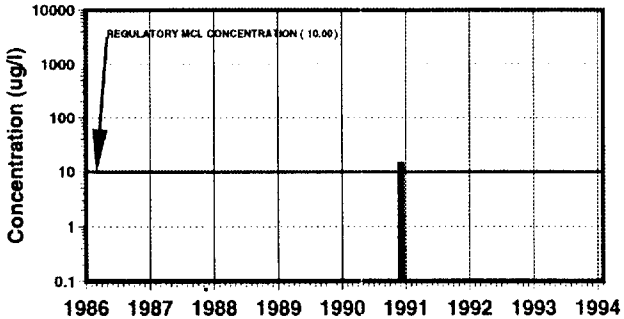
SAMPLING DEPTH (ft bgs)=(750)

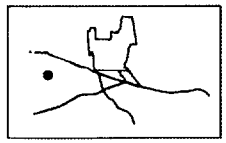


18_TIC112

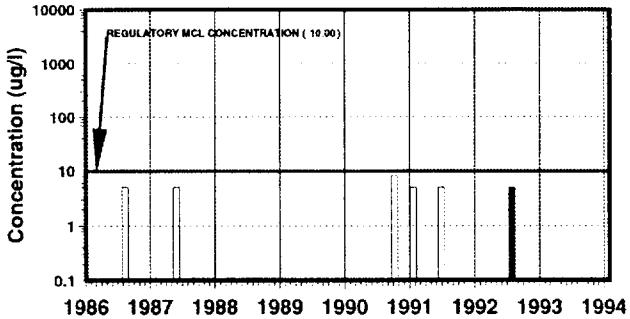
SAMPLING DEPTH (ft bgs)=(750)

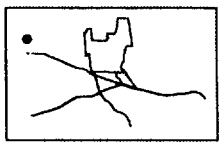


18_TIC113

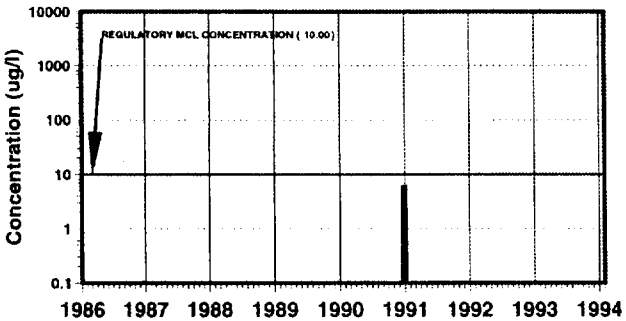
SAMPLING DEPTH (ft bgs)=(280-1080)

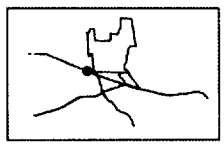


18_TIC114

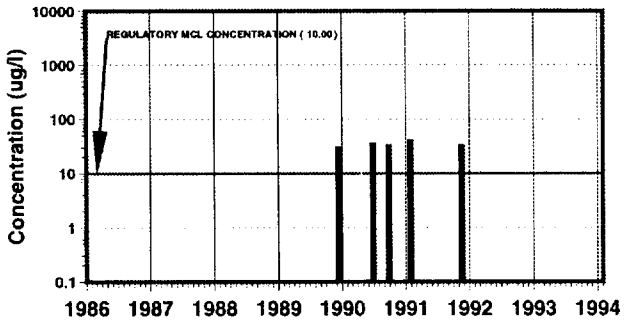
SAMPLING DEPTH (ft bgs)=(280)

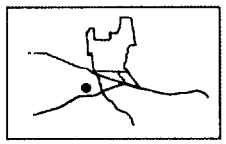


18_TIC117

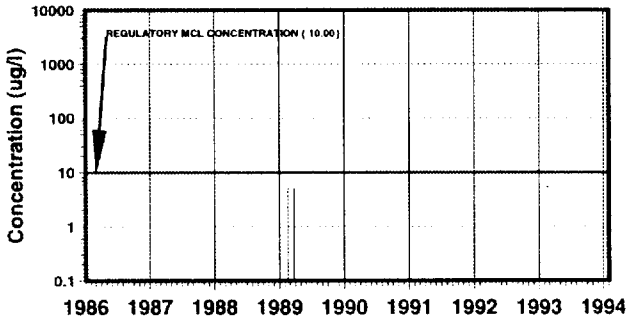
SAMPLING DEPTH (ft bgs)=(360-635)



18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



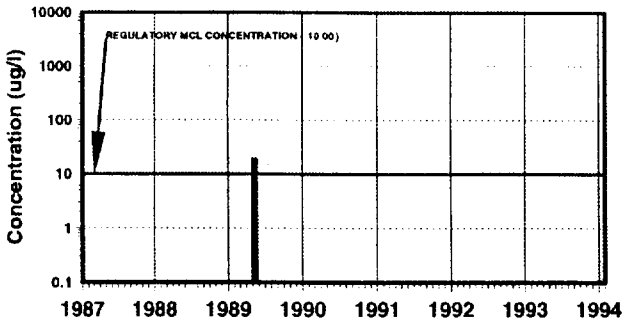
## *SELENIUM Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_CN2

*NO X,Y DATA*

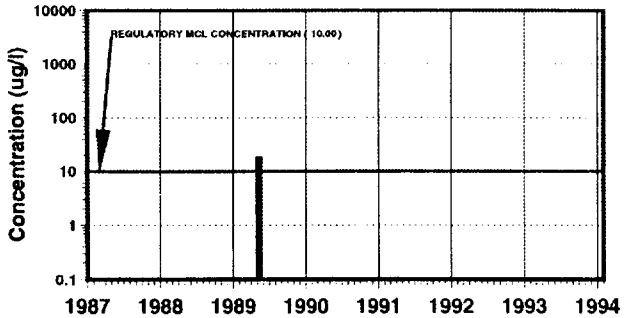
SAMPLING DEPTH (ft bgs)=(75-95)




### *18*_CN5

*NO X,Y DATA*

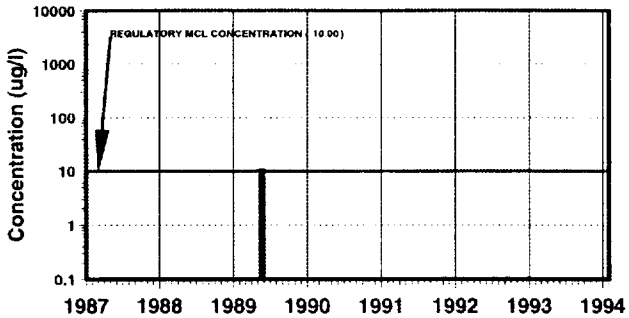
SAMPLING DEPTH (ft bgs)=(70-90)




### *18*_CN12

*NO X,Y DATA*

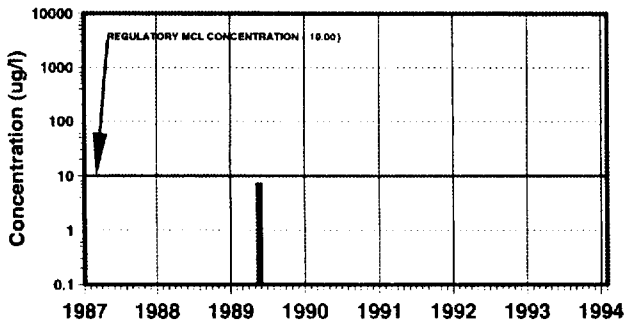
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_CN13

*NO X,Y DATA*

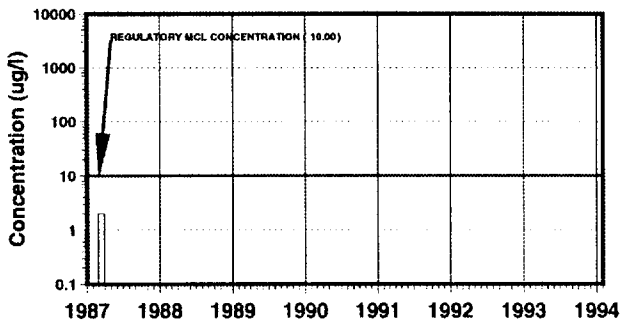
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_WPMW1

*NO X,Y DATA*

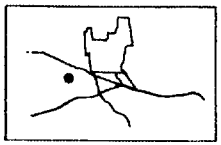
SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 18:05:48 1993*

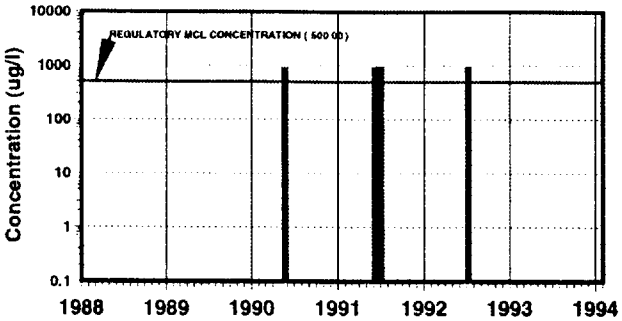
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

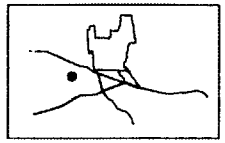
*TOTAL DISSOLVED SOLIDS Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_ET1

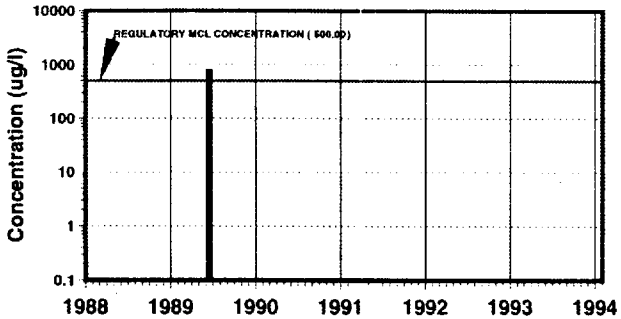
SAMPLING DEPTH (ft bgs)=(220-490)



*18*_ET1

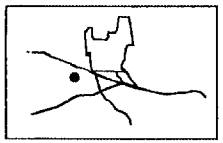
SAMPLING DEPTH (ft bgs)=(200)




*Sat May 1 18:11:58 1993*

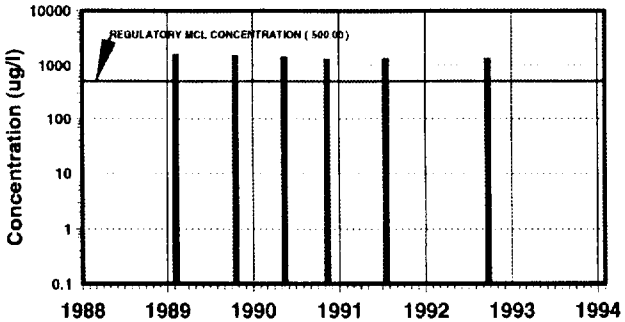
CAS EL TORO Phase I RI Technical Memorandum OCWD - OUND WATER QUALITY DATA

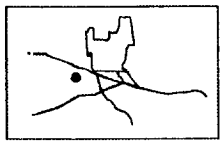
TOTAL DISSOLVED SOLIDS Concentration FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS01

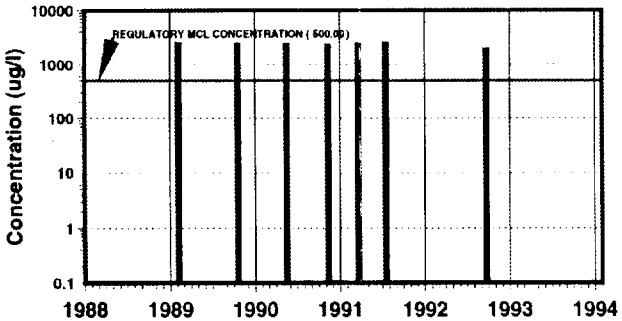
SAMPLING DEPTH (ft bgs)=(65)

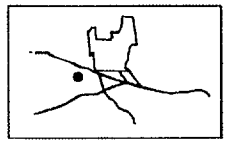


18_MCAS01

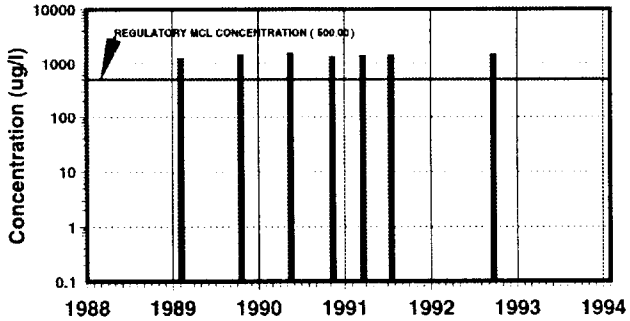
SAMPLING DEPTH (ft bgs)=(155)

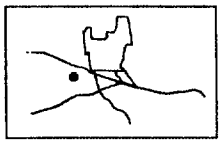


18_MCAS01

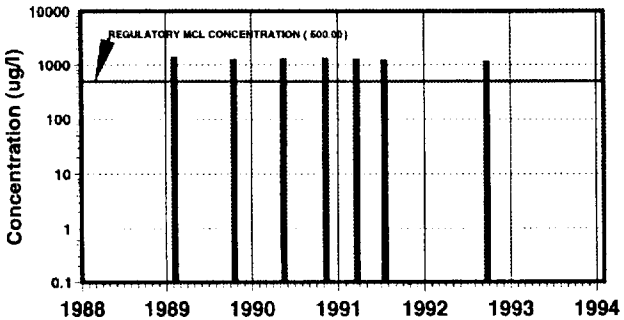
SAMPLING DEPTH (ft bgs)=(215)

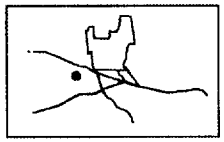


18_MCAS01

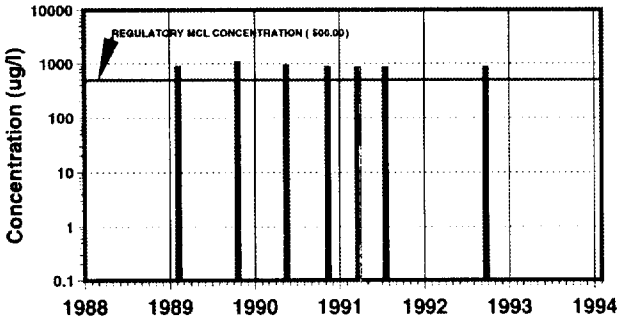
SAMPLING DEPTH (ft bgs)=(275)

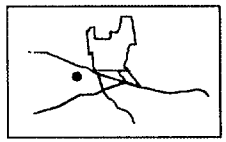


18_MCAS01

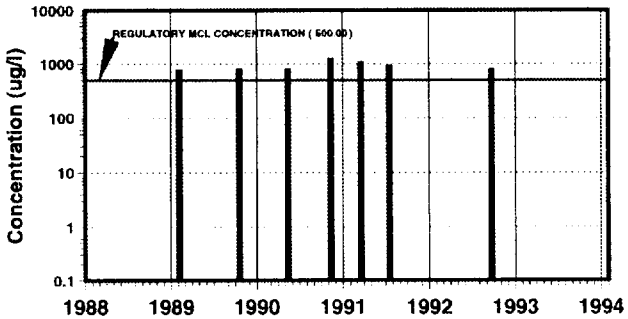
SAMPLING DEPTH (ft bgs)=(335)

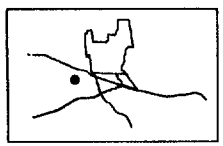


18_MCAS01

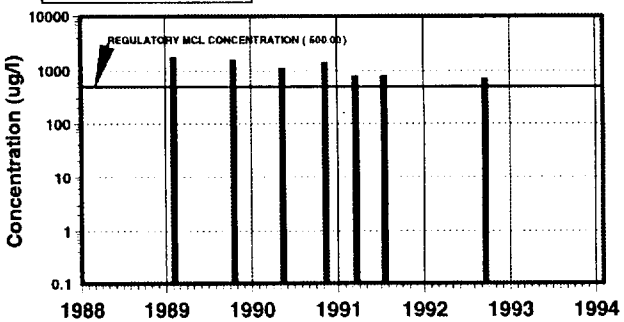
SAMPLING DEPTH (ft bgs)=(455)



18_MCAS01

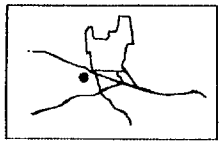
SAMPLING DEPTH (ft bgs)=(545)




Sat May 1 03:04:02 1993

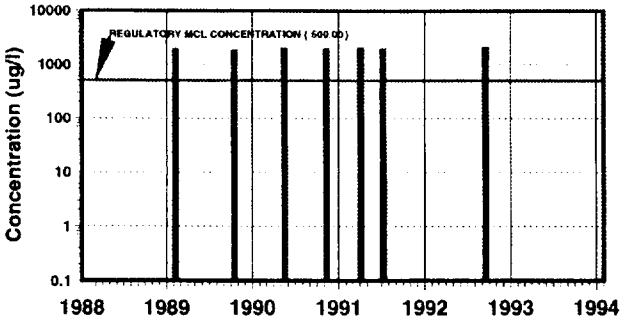
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

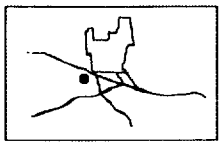
*TOTAL DISSOLVED SOLIDS Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS02

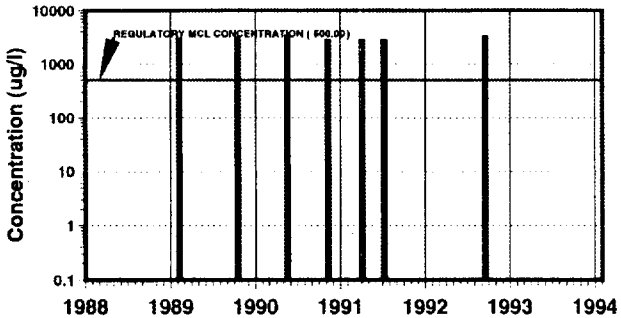
SAMPLING DEPTH (ft bgs)=(45)

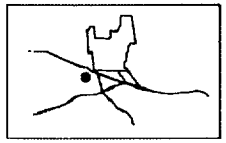


*18*_MCAS02

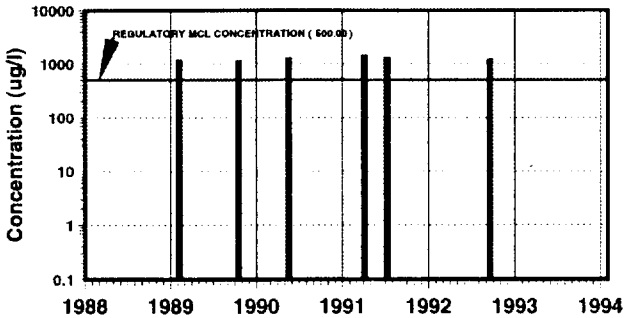
SAMPLING DEPTH (ft bgs)=(135)

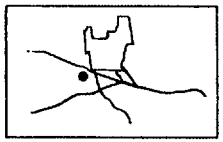


*18*_MCAS02

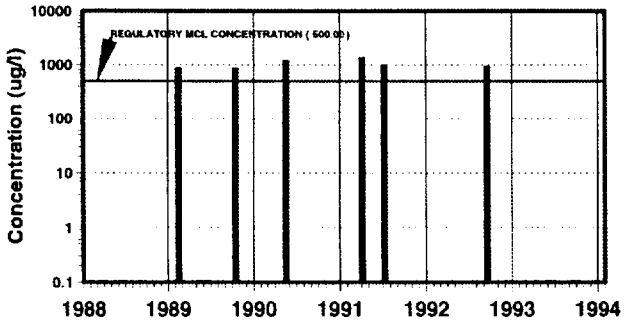
SAMPLING DEPTH (ft bgs)=(205)

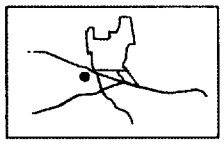


*18*_MCAS02

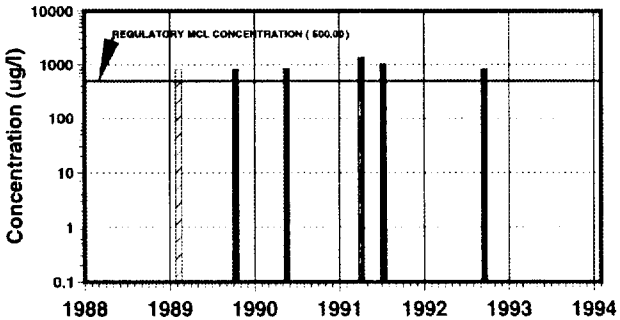
SAMPLING DEPTH (ft bgs)=(375)

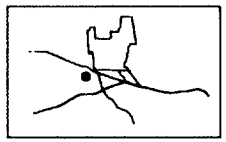


*18*_MCAS02

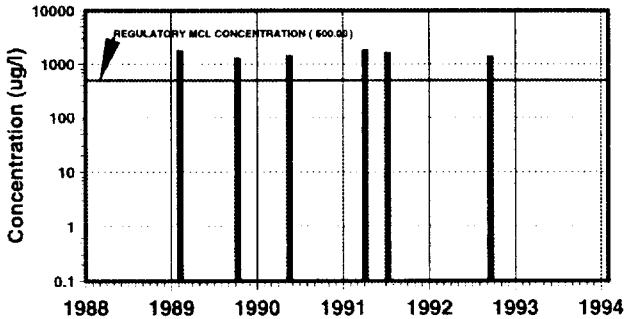
SAMPLING DEPTH (ft bgs)=(425)

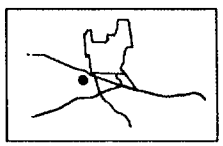


*18*_MCAS02

SAMPLING DEPTH (ft bgs)=(495)



*18*_MCAS02

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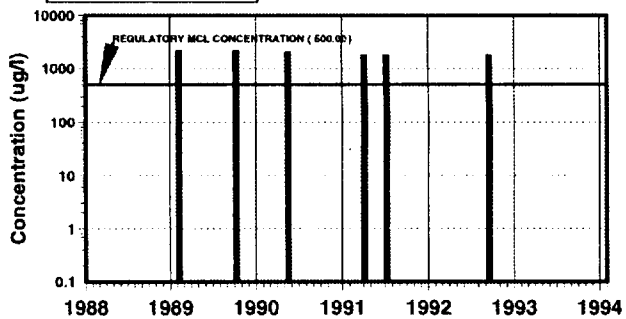


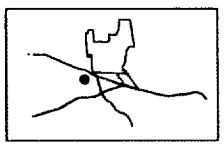

*18*_MCAS02

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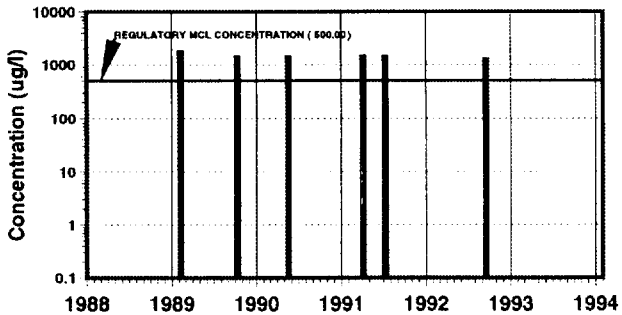


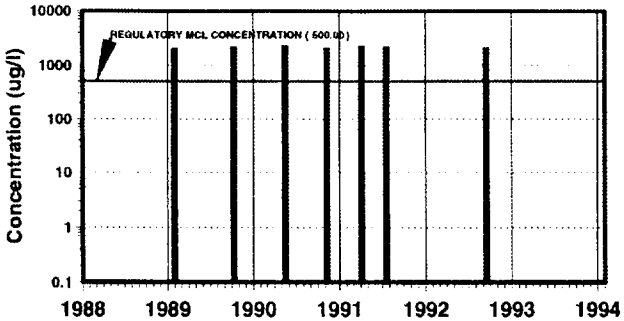

*Sat May 1 03:05:36 1993*

## TOTAL DISSOLVED SOLIDS Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

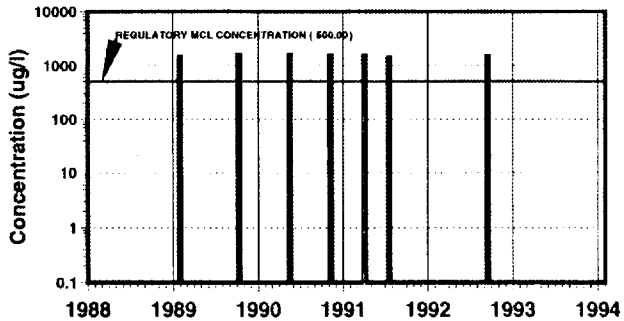
18_MCAS03

SAMPLING DEPTH (ft bgs)=(90)



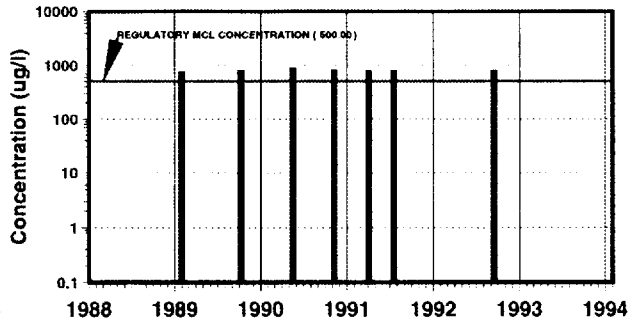
18_MCAS03

SAMPLING DEPTH (ft bgs)=(165)



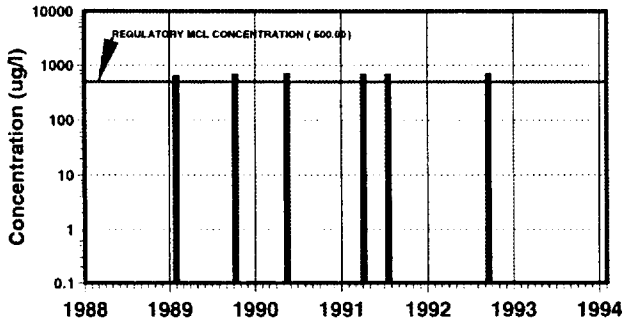
18_MCAS03

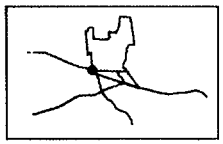
SAMPLING DEPTH (ft bgs)=(225)



18_MCAS03

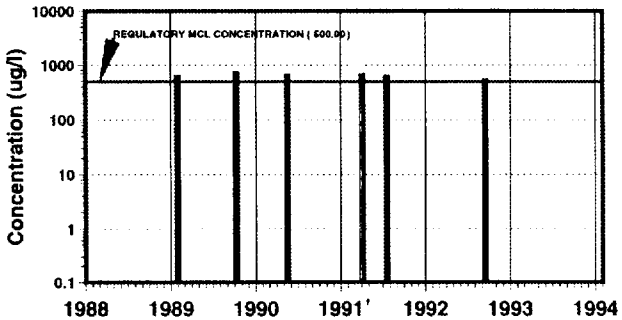
SAMPLING DEPTH (ft bgs)=(345)

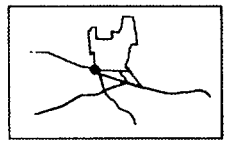


18_MCAS03

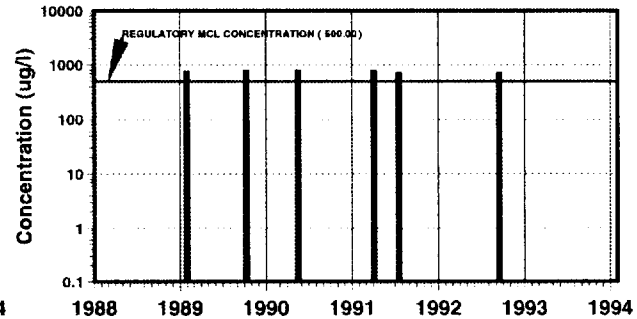
SAMPLING DEPTH (ft bgs)=(425)



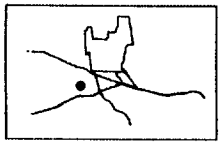
18_MCAS03

SAMPLING DEPTH (ft bgs)=(495)



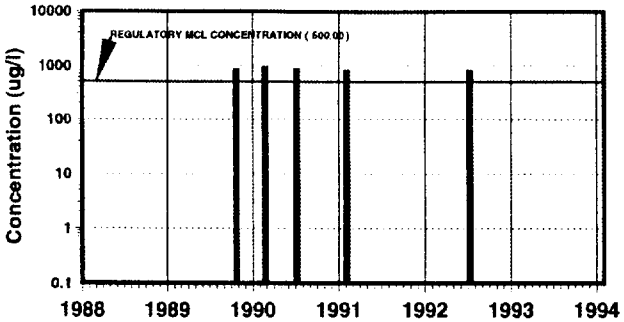
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

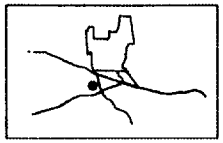
*TOTAL DISSOLVED SOLIDS Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_MCAS04

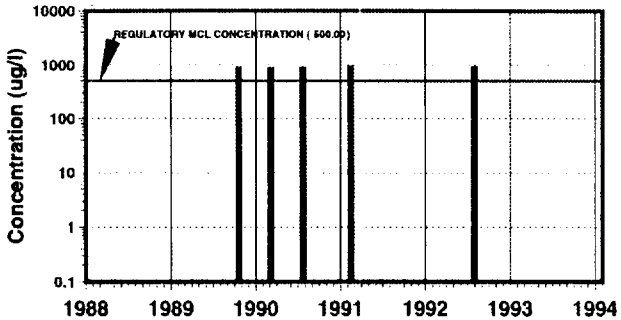
SAMPLING DEPTH (ft bgs)=(181-238)

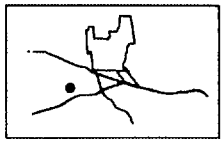


*18*_MCAS05

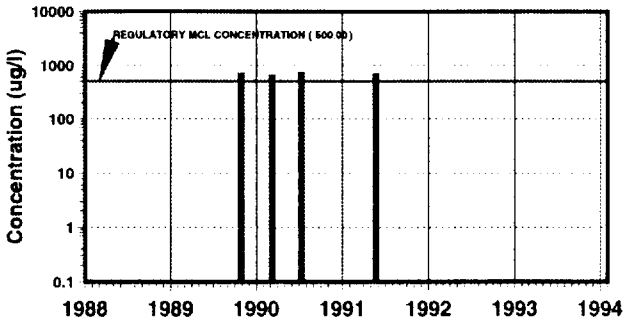
SAMPLING DEPTH (ft bgs)=(142-148)

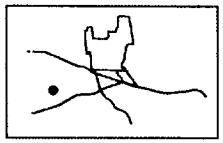


*18*_MCAS06

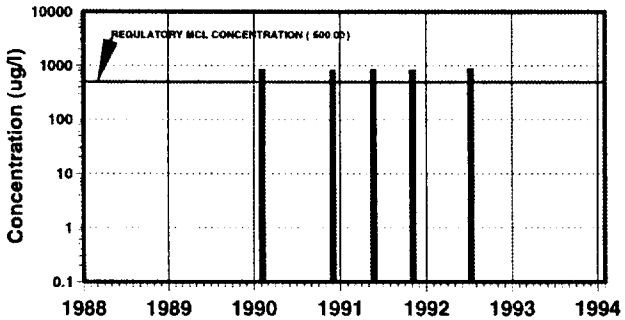
SAMPLING DEPTH (ft bgs)=(167-222)

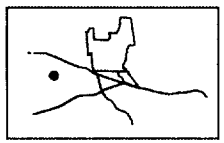


*18*_MCAS08

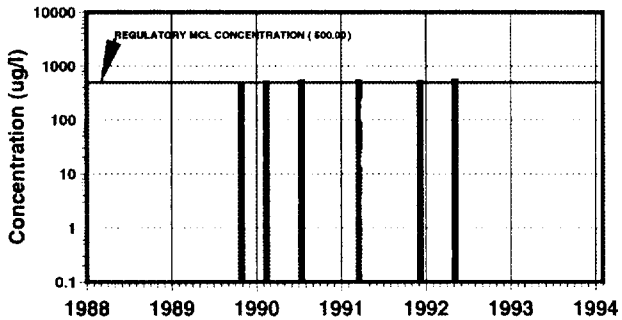
SAMPLING DEPTH (ft bgs)=(392-410)

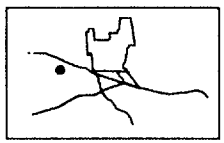


*18*_MCAS09

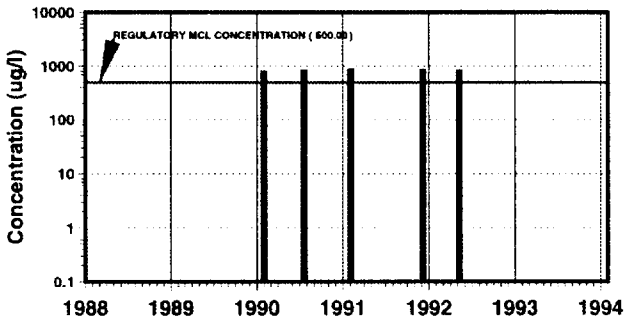
SAMPLING DEPTH (ft bgs)=(372-445)



*18*_MCAS10

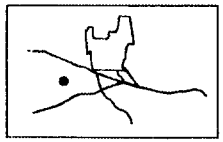
SAMPLING DEPTH (ft bgs)=(355-375)




*Sat May 1 03:08:45 1993*

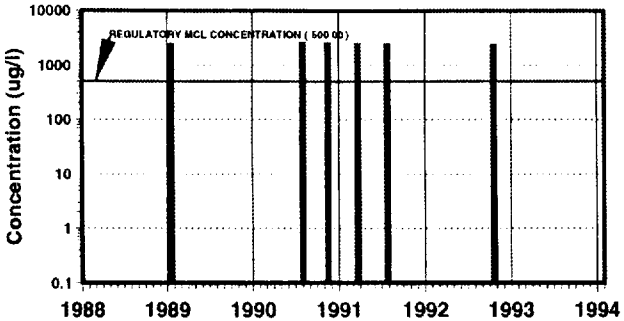
## TOTAL DISSOLVED SOLIDS Concentration

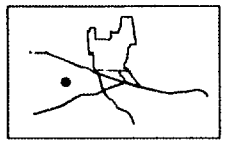
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



18_MCAS07

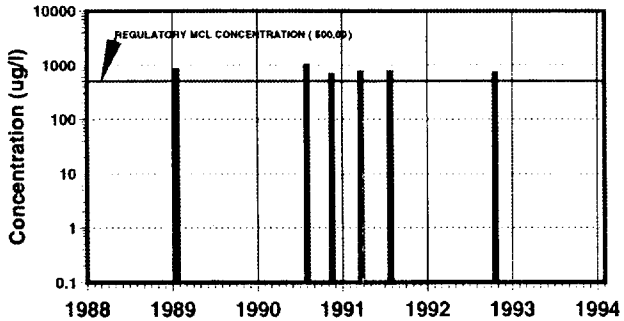
SAMPLING DEPTH (ft bgs)=(94)

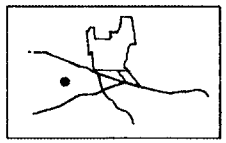


18_MCAS07

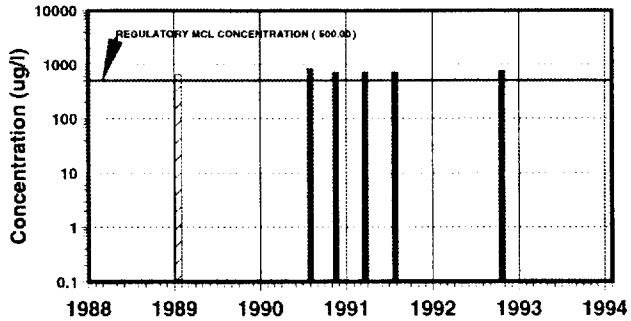
SAMPLING DEPTH (ft bgs)=(194)

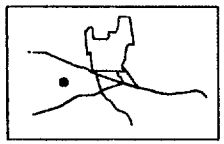


18_MCAS07

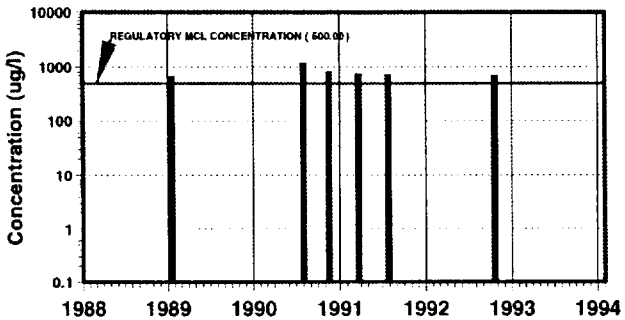
SAMPLING DEPTH (ft bgs)=(354)

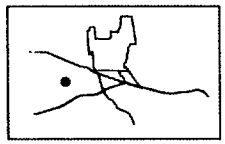


18_MCAS07

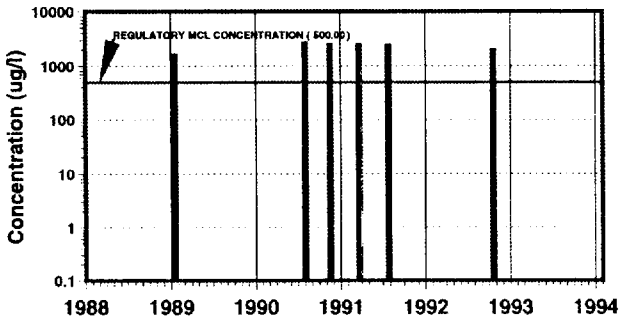
SAMPLING DEPTH (ft bgs)=(444)

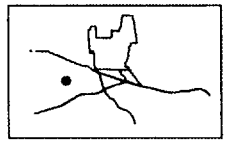


18_MCAS07

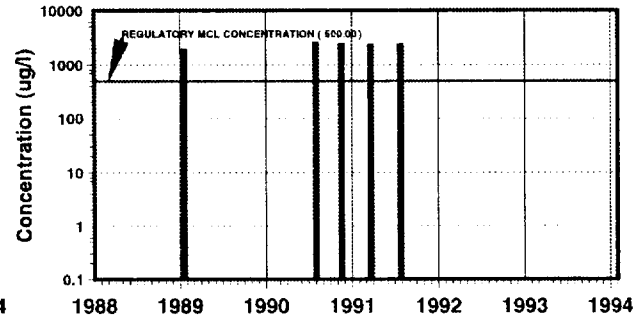
SAMPLING DEPTH (ft bgs)=(514)

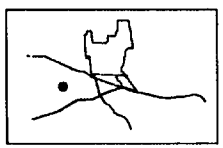


18_MCAS07

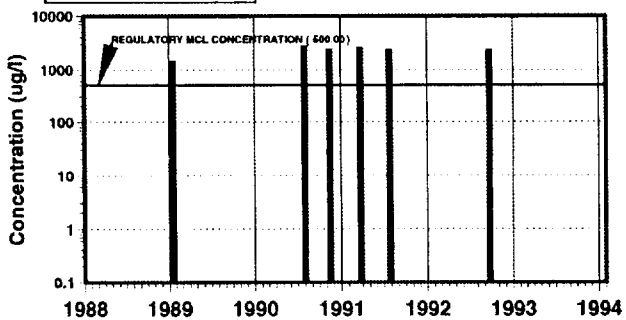
SAMPLING DEPTH (ft bgs)=(804)

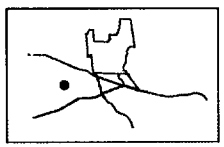


18_MCAS07

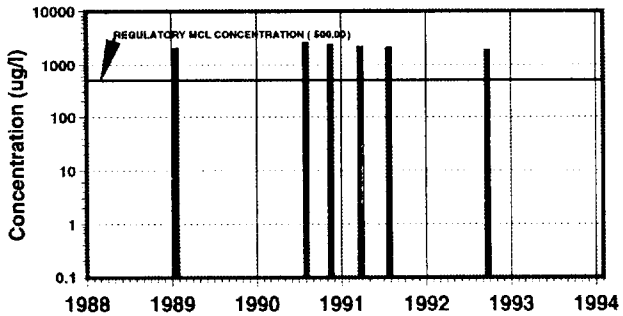
SAMPLING DEPTH (ft bgs)=(914)



18_MCAS07

SAMPLING DEPTH (ft bgs)=(984)

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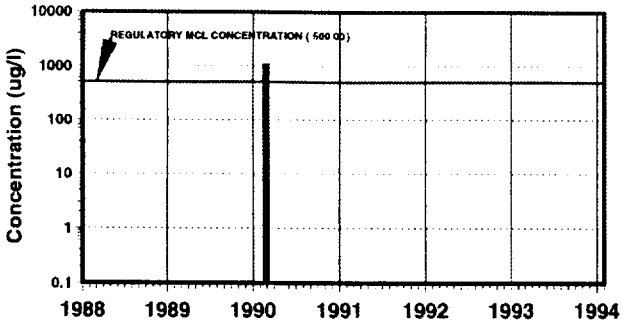
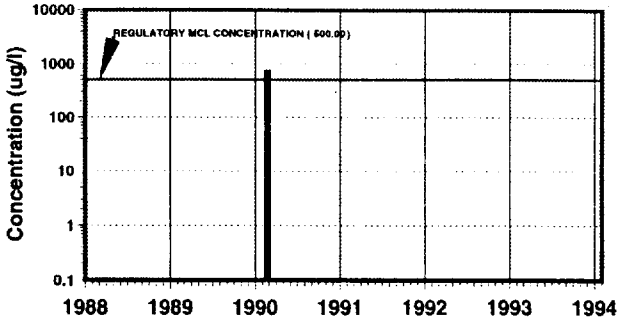
# MCAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## TOTAL DISSOLVED SOLIDS Concentration

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

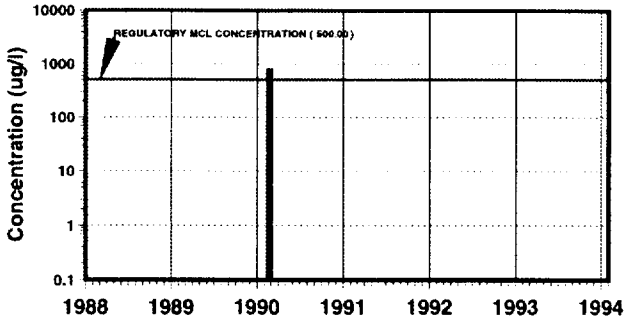
### 18_MW10115
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(115)



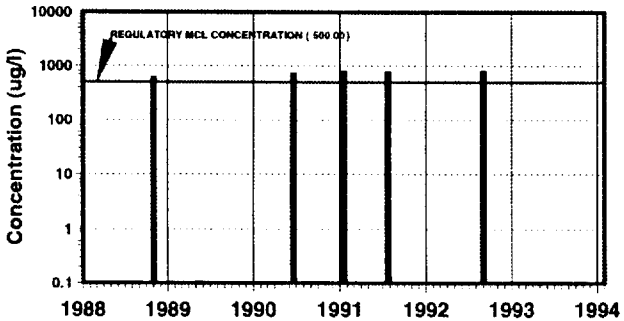

### 18_MW10210
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(210)

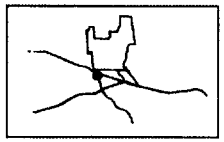



### 18_MW10335
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(335)

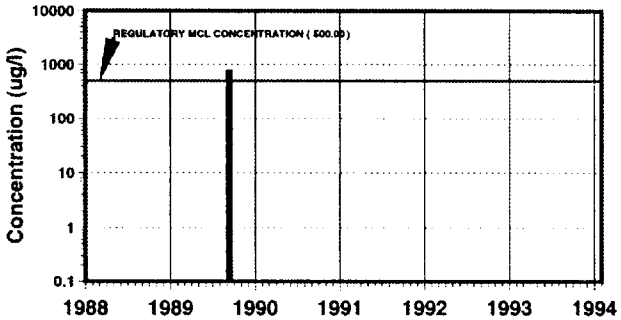



### 18_NLAKE
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(370-890)

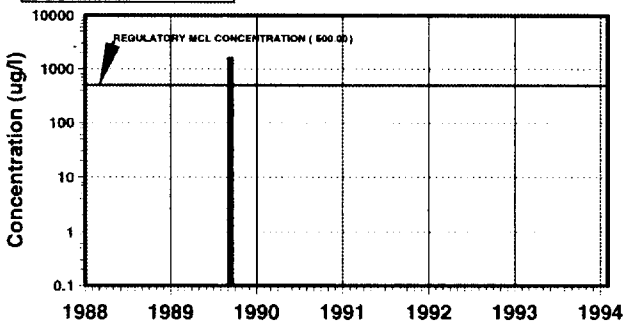


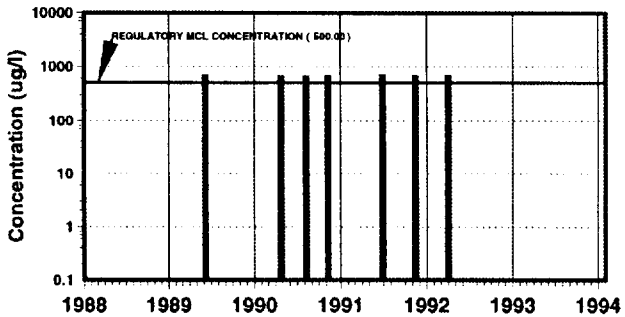
### 18_RW3
SAMPLING DEPTH (ft bgs)=(370-390)



### 18_RW4
SAMPLING DEPTH (ft bgs)=(65-85)



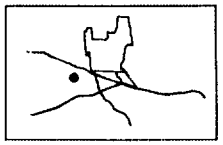

### 18_SLAKE
*NO X,Y DATA*
SAMPLING DEPTH (ft bgs)=(210)




*Sat May 1 03:11:24 1993*

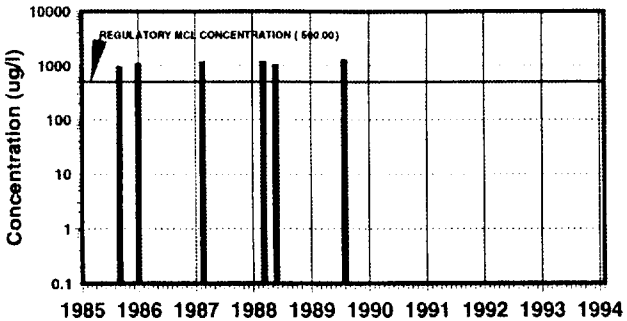
# CAS EL TORO Phase I RI Technical Memorandum OCWD - GROUND WATER QUALITY DATA
## TOTAL DISSOLVED SOLIDS Concentration

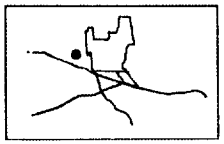
FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION



*18*_TIC035

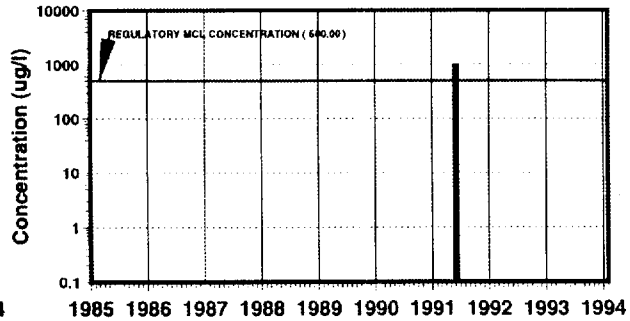
SAMPLING DEPTH (ft bgs)=(263-1503)

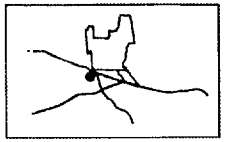


*18*_TIC037

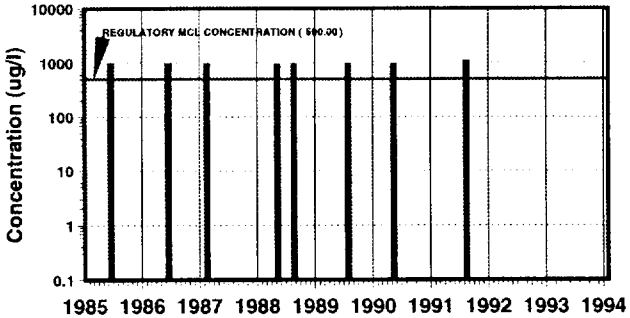
SAMPLING DEPTH (ft bgs)=(255-1560)



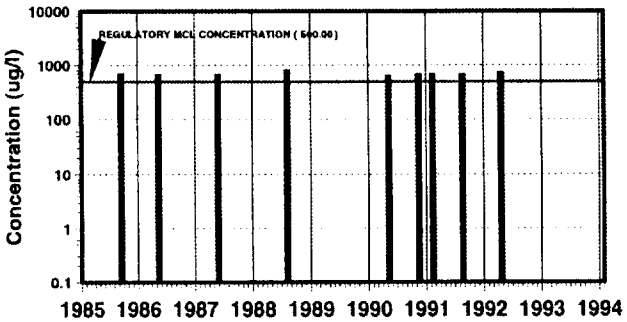
*18*_TIC047

SAMPLING DEPTH (ft bgs)=(268-1107)



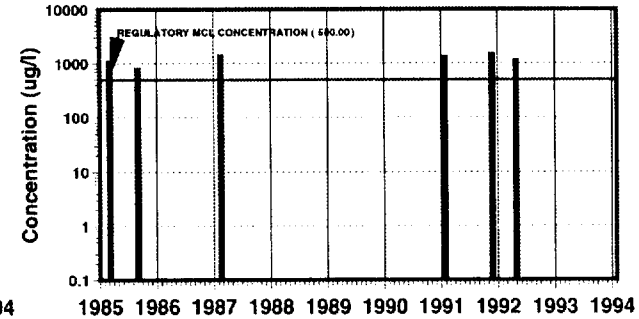
*18*_TIC055

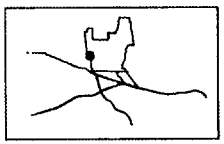
SAMPLING DEPTH (ft bgs)=(496)



*18*_TIC056

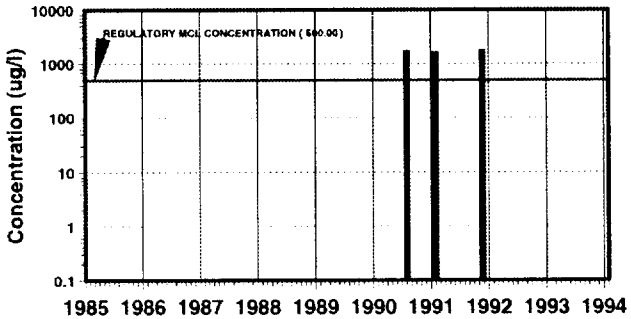
SAMPLING DEPTH (ft bgs)=(336-647)

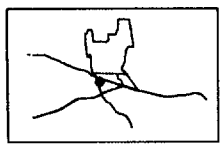


*18*_TIC061

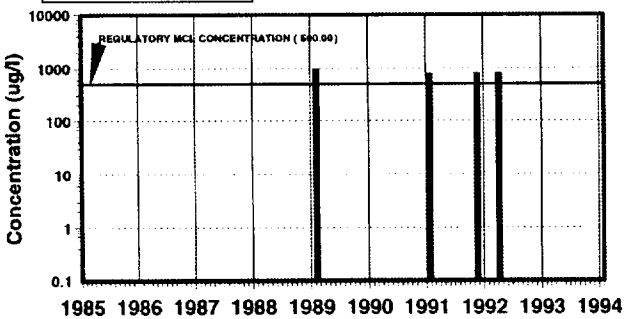
SAMPLING DEPTH (ft bgs)=(248-694)



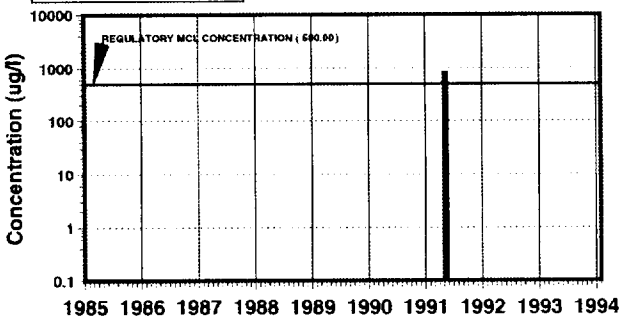
*18*_TIC068

SAMPLING DEPTH (ft bgs)=(274-403)



*18*_TIC072

SAMPLING DEPTH (ft bgs)=(274-403)

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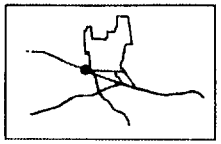
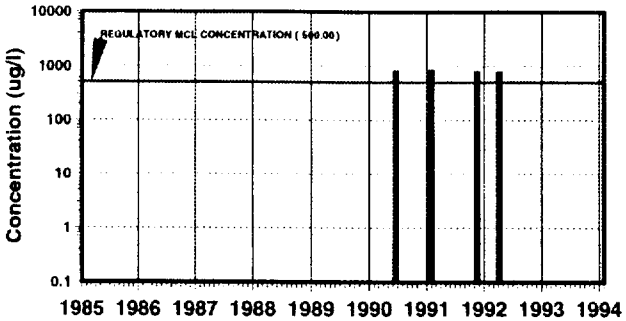
*MCAS EL TORO Phase I RI Technical Memorandum* *OCWD - GROUND WATER QUALITY DATA*

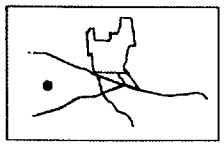
*TOTAL DISSOLVED SOLIDS Concentration* *FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*



*18*_TIC074

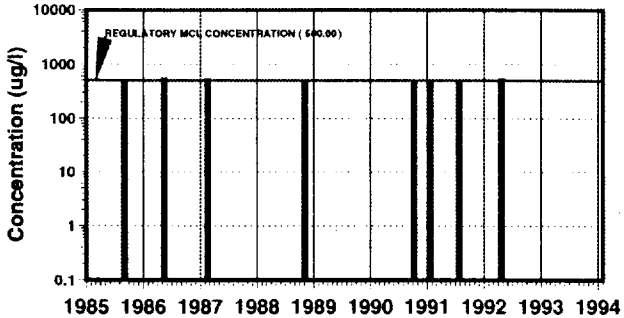
SAMPLING DEPTH (ft bgs)=(210-280)

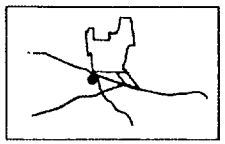


*18*_TIC078

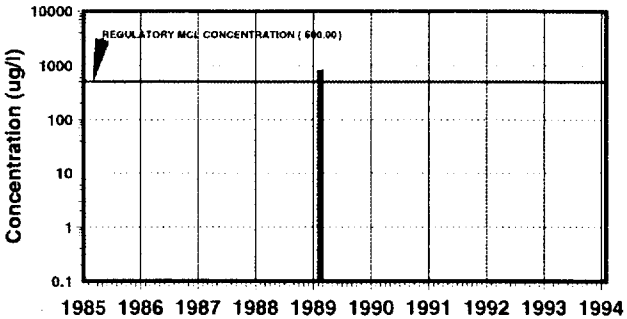
SAMPLING DEPTH (ft bgs)=(410-690)



*18*_TIC083

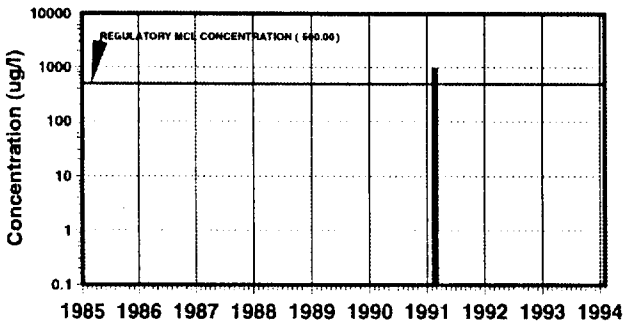
SAMPLING DEPTH (ft bgs)=(261-402)

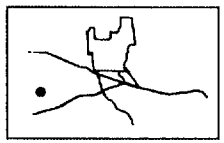



*18*_TIC098

*NO X,Y DATA*

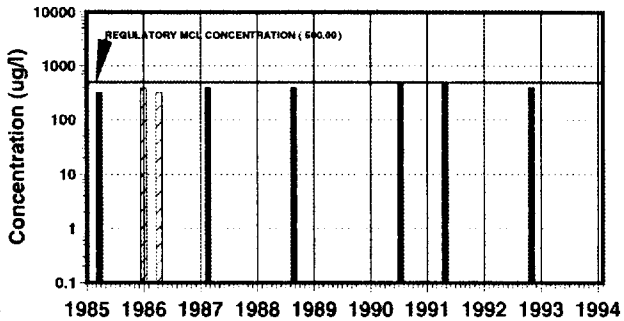
SAMPLING DEPTH (ft bgs)=(261-402)

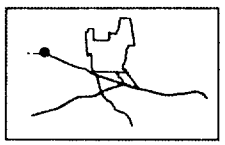


*18*_TIC106

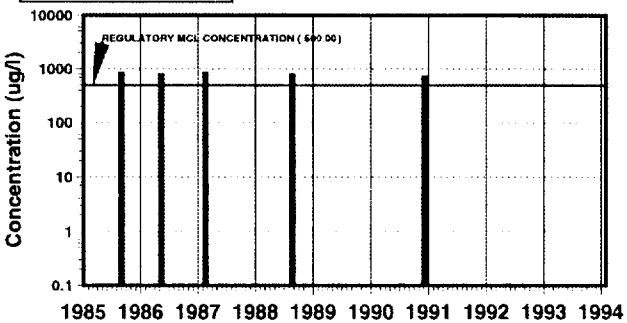
SAMPLING DEPTH (ft bgs)=(405-715)

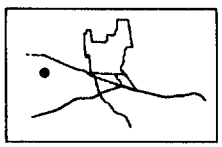


*18*_TIC107

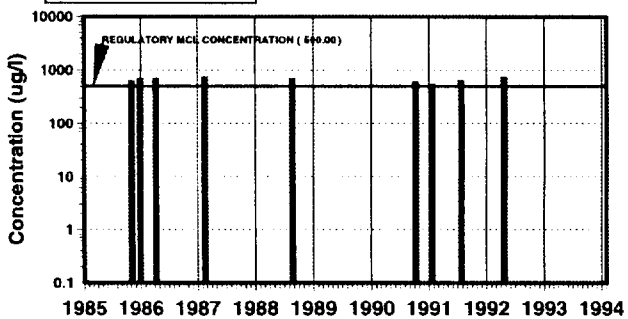
SAMPLING DEPTH (ft bgs)=(230-980)

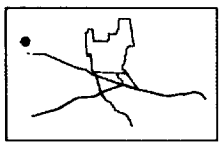


*18*_TIC108

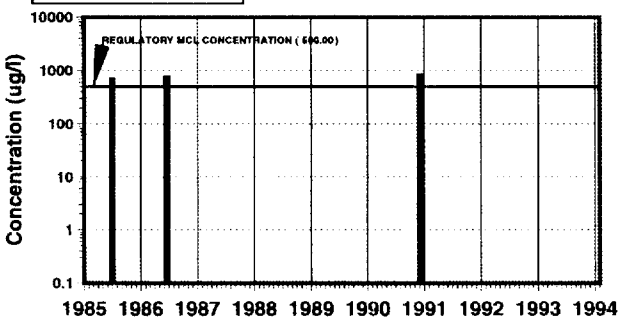
SAMPLING DEPTH (ft bgs)=(960)

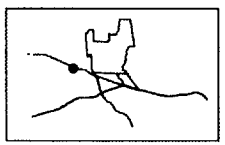


*18*_TIC109

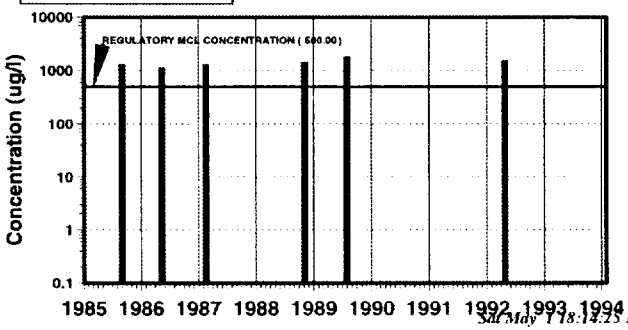
SAMPLING DEPTH (ft bgs)=(960)



*18*_TIC110

SAMPLING DEPTH (ft bgs)=(182-1030)



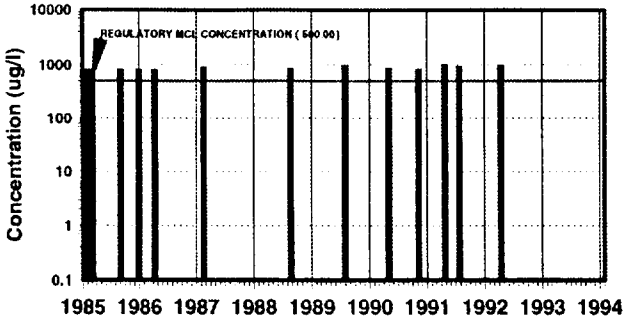

*Sat May 1 18:14:25 1993*

## TOTAL DISSOLVED SOLIDS Concentration

FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION

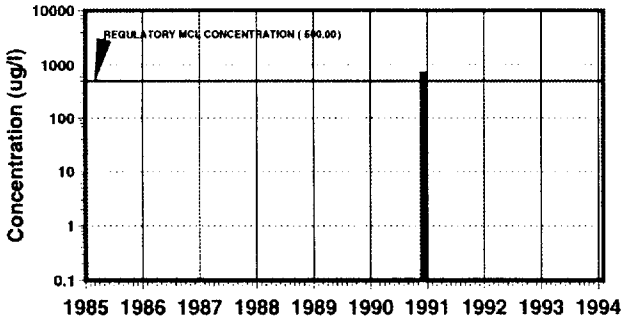
### 18_TIC111

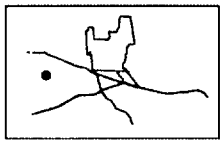
SAMPLING DEPTH (ft bgs)=(750)



### 18_TIC112

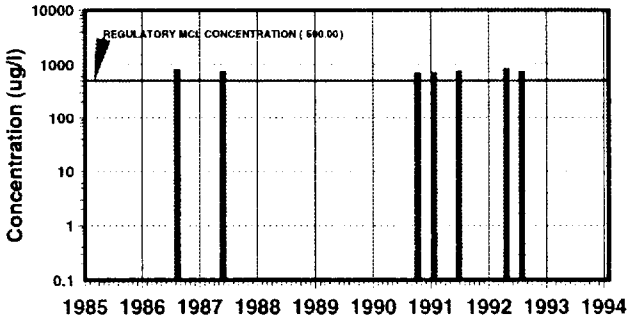
SAMPLING DEPTH (ft bgs)=(750)



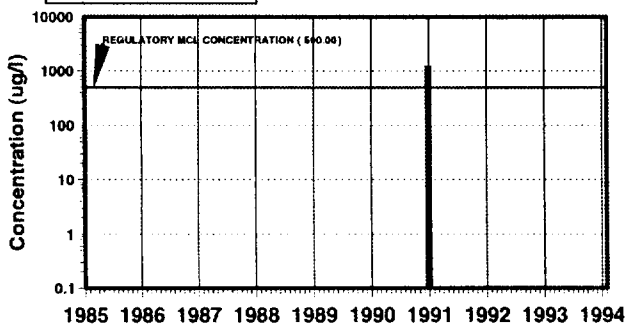
### 18_TIC113

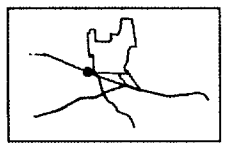
SAMPLING DEPTH (ft bgs)=(280-1080)



### 18_TIC114

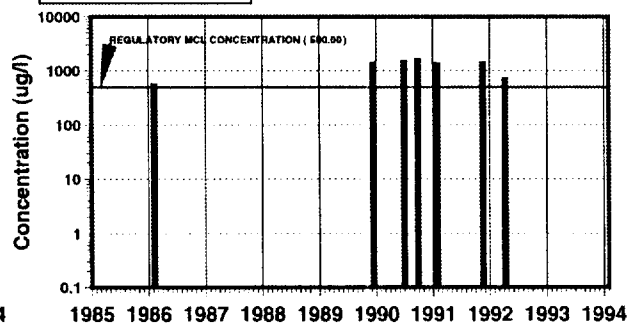
SAMPLING DEPTH (ft bgs)=(280)

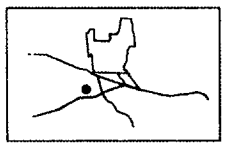


### 18_TIC117

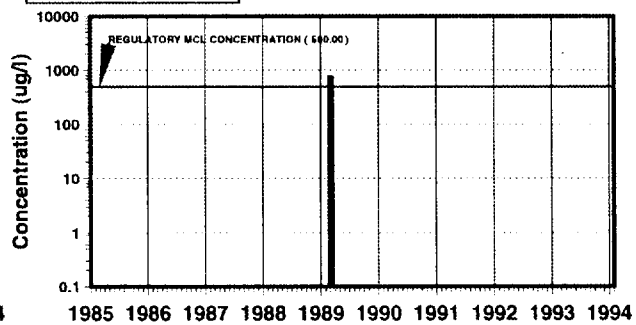
SAMPLING DEPTH (ft bgs)=(360-635)



### 18_TIC127

SAMPLING DEPTH (ft bgs)=(100)



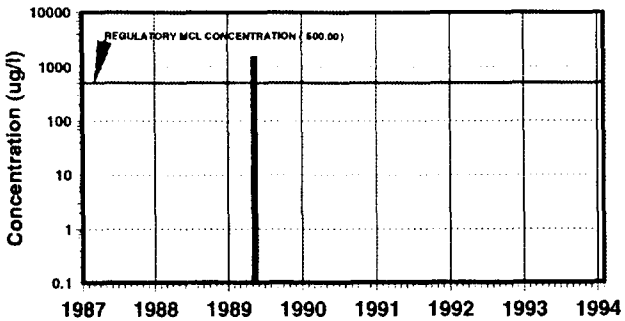
## *TOTAL DISSOLVED SOLIDS Concentration*

*FIGURE AT TOP OF EACH PLOT SHOWS APPROXIMATE WELL LOCATION*

### *18*_CN2

*NO X,Y DATA*

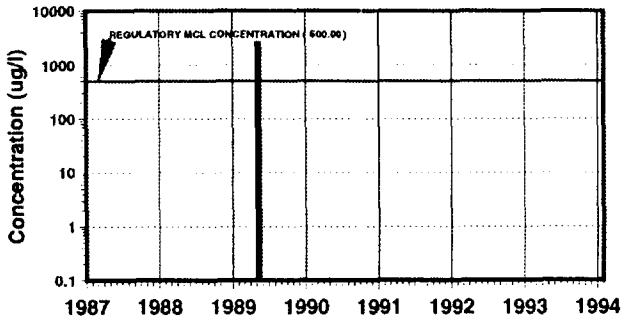
SAMPLING DEPTH (ft bgs)=(75-95)




### *18*_CN5

*NO X,Y DATA*

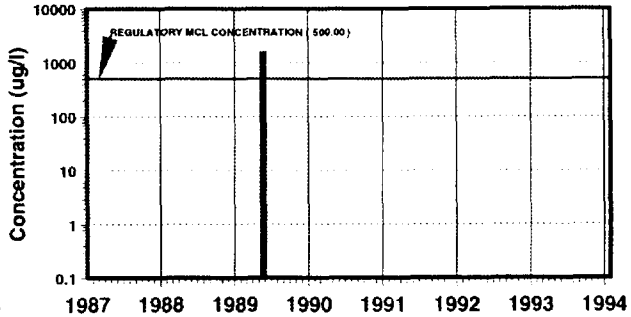
SAMPLING DEPTH (ft bgs)=(70-90)




### *18*_CN12

*NO X,Y DATA*

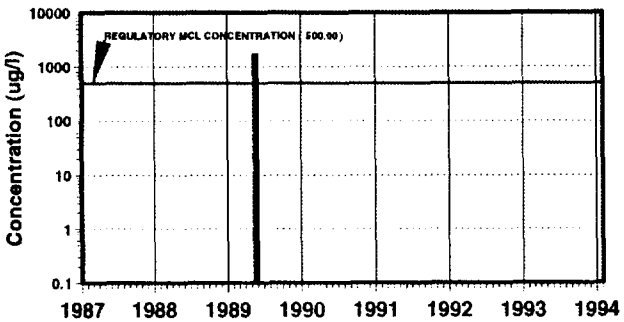
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_CN13

*NO X,Y DATA*

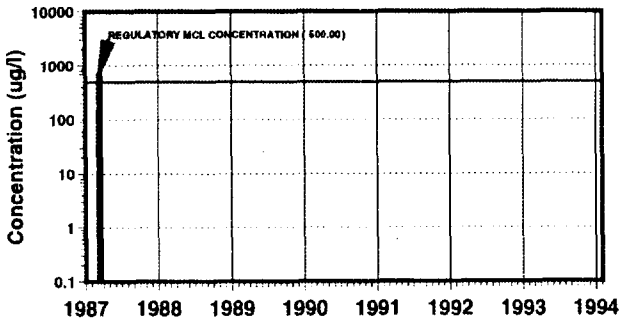
SAMPLING DEPTH (ft bgs)=(60-80)




### *18*_WPMW1

*NO X,Y DATA*

SAMPLING DEPTH (ft bgs)=(75-95)




*Sat May 1 18:17:41 1993*

# Appendix E

# MONITORING WELL COMPLETION INFORMATION

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method | Borehole Depth | Well Depth | Well Screen Zone | Casing Dia. | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | (See Page 9 for rig type) | (Ft.) | (Ft.) | (Ft.) | (In.) | Type | Set Depth (Ft.) | |
| 01A | 18_BGMW01A | 18 | N551991.14 E1553363.32 | 394.55 | 25-Jun-92 | MR | 491 | 491 | 466-486 | 5 | Submersible | 465 | |
| 01B | 18_BGMW01B | 18 | N552010.9 E1553368.94 | 395.25 | 01-Jul-92 | MR | 421 | 421 | 396-416 | 5 | Submersible | 395 | |
| 01C | 18_BGMW01C | 18 | N551989.02 E1553383.08 | 394.3 | 10-Jul-92 | MR | 358 | 355 | 330-350 | 5 | Submersible | 329 | |
| 01D | 18_BGMW01D | 18 | N551997.41 E1553342.28 | 396.3 | 24-Jul-92 | MR | 265 | 267 | 242-262 | 5 | Submersible | 231 | |
| 01E | 18_BGMW01E | 18 | N551972.33 E1553350.1 | 393.2 | 10-Aug-92 | HSA | 230 | 230 | 205-225 | 4 | Submersible | 224 | |
| 02A | 18_BGMW02A | 18 | N548256.43 E1554587.78 | 392.58 | 26-May-92 | MR | 487 | 487 | 462-482 | 5 | Submersible | 461 | |
| 02C | 18_BGMW02C | 18 | N548252.95 E1554596.65 | 392.71 | 09-Jun-92 | MR | 386 | 383 | 258-378 | 5 | Submersible | 357 | |
| 02D | 18_BGMW02D | 18 | N548259.34 E1554576.32 | 392.56 | 12-Jun-92 | MR | 315 | 319 | 294-314 | 5 | Submersible | 293 | |
| 02E | 18_BGMW02E | 18 | N548246.82 E1554584.61 | 392.32 | 03-Jun-92 | MR | 238 | 238 | 198-233 | 5 | Submersible | 200 | |
| 03A | 18_BGMW03A | 18 | N548416.31 E1548069.54 | 280.7 | 23-Jun-92 | MR | 395 | 395 | 370-390 | 5 | Submersible | 369 | |
| 03B | 18_BGMW03B | 18 | N548425.16 E1548072.7 | 281.73 | 01-Jul-92 | MR | 307 | 305 | 280-300 | 5 | Submersible | 279 | |
| 03C | 18_BGMW03C | 18 | N548419.01 E1548076.01 | 283.4 | 20-Jul-92 | MR | 247 | 247 | 222-242 | 5 | Submersible | 221 | |
| 03E | 18_BGMW03E | 18 | N548422.71 E1548066.47 | 282.1 | 05-Aug-92 | HSA | 170 | 169 | 124-164 | 4 | Submersible | 160 | |
| 04A | 18_BGMW04A | 18 | N549006.38 E1545170.06 | 244.22 | 05-Jun-92 | MR | 311 | 311 | 286-306 | 5 | Submersible | 285 | |
| 04B | 18_BGMW04B | 18 | N549001.27 E1545178.44 | 243.97 | 11-Jun-92 | MR | 215 | 215 | 190-210 | 4 | Submersible | 189 | |
| 05A | 18_BGMW05A | 18 | N546206.29 E1548486.53 | 273.73 | 01-Jul-92 | MR | 487 | 487 | 462-482 | 5 | Submersible | 461 | |
| 05B | 18_BGMW05B | 18 | N546214.39 E1548494.37 | 274.2 | 08-Jul-92 | MR | 350 | 346 | 321-341 | 5 | Submersible | 320 | |
| 05C | 18_BGMW05C | 18 | N546213.5 E1548479.9 | 272.9 | 14-Jul-92 | MR | 252 | 250 | 225-245 | 5 | Submersible | 223 | |
| 05D | 18_BGMW05D | 18 | N545959.08 E1548716.24 | 270.6 | 10-Sep-92 | ARCD | 137 | 138 | 83-133 | 6 | Submersible | 126 | |
| 05E | 18_BGMW05E | 18 | N545959.08 E1548716.25 | 270.6 | 07-Jul-92 | ARCD | 135 | 135 | 80-130 | 2 | Submersible | | |

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method | Borehole Depth | Well Depth | Well Screen Zone | Casing Dia. | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | (See Page 9 for rig type) | (Ft.) | (Ft.) | (Ft.) | (In.) | Type | Set Depth (Ft.) | |
| 06M | 18_BGMP06 | 18 | N553966.34 E1539289.08 | 176.5 | 31-Jul-92 | MR | 495 | SEE TABLE 2 | | 5 | NA | | |
| 07 | 18_BGMW07 | 18 | N544789.06 E1541175.13 | 178.9 | 22-Jul-92 | MR | 70 | 70 | 25-65 | 5 | Submersible | 60 | |
| 08M | 18_BGMP08 | 18 | N547715.55 E1542151.23 | 195.7 | 13-Jul-00 | MR | 488 | SEE TABLE 2 | | 6 | NA | | |
| 09M | 18_BGMP09 | 18 | N544903.93 E1546380.37 | 237.6 | 16-Jul-92 | MR | 504 | SEE TABLE 2 | | 5 | NA | | |
| 10M | 18_BGMP10 | 18 | N560554.23 E1528333.37 | 57.71 | 29-Nov-92 | MR | 1220 | SEE TABLE 2 | | 5 | NA | | |
| 12 | 18_BGMW12 | 18 | N554228.11 E1547466.07 | 306.5 | 25-Aug-92 | HSA | 214 | 210 | 165-205 | 4 | Submersible | 200 | |
| 14 | 18_BGMW14 | 18 | N544818.62 E1549691.4 | 268.5 | 15-Jun-92 | DTP | 120 | 120 | 75-115 | 4 | Submersible | 113 | |
| 15 | 18_BGMW15 | 18 | N559058.5 E1548443.79 | 319.9 | 26-Jun-92 | DTP | 219 | 220 | 175-215 | 4 | Submersible | 214 | |
| 16 | 18_BGMW16 | 18 | N557141.18 E1551376.89 | 377.7 | 26-Jun-92 | DTP | 268 | 268 | 223-263 | 5 | Submersible | 252 | |
| 17 | 18_BGMW17 | 18 | N546491.03 E1554512.7 | 379.8 | 24-Jun-92 | MR | 260 | 260 | 215-255 | 5 | Submersible | 231 | |
| 18 | 18_BGMW18 | 18 | N555623.69 E1545497.91 | 275.8 | 30-Jun-92 | HSA | 185 | 185 | 140-180 | 4 | Submersible | 175 | |
| 19A | 18_BGMW19A | 18 | N554010.35 E1543142.28 | 235.8 | 20-Jul-92 | MR | 473 | 473 | 448-468 | 5 | Submersible | 447 | |
| 19B | 18_BGMW19B | 18 | N554014.83 E1543132.75 | 236 | 27-Jul-92 | MR | 425 | 425 | 400-420 | 5 | Submersible | 390 | |
| 19C | 18_BGMW19C | 18 | N554026.33 E1543133.53 | 233.9 | 08-Aug-92 | MR | 280 | 282 | 275-277 | 4 | Submersible | 256 | |
| 19D | 18_BGMW19D | 18 | N554015.76 E1543122.91 | 236 | 30-Jul-92 | MR | 177 | 175 | 150-170 | 4 | Submersible | 165 | |
| 19E | 18_BGMW19E | 18 | N554021.5 E1543141.97 | 234 | 02-Jul-92 | HSA | 145 | 143 | 98-138 | 4 | Submersible | 137 | |
| 22 | 18_BGMW22 | 18 | N552893.63 E1554660.63 | 429.6 | 13-Jul-92 | DTP | 290 | 292 | 247-287 | 5 | Submersible | 128 | |
| 23 | 18_BGMW23 | 18 | N545693.8 E1542183.26 | 190.3 | 08-Jul-92 | DTP | 109 | 109 | 64-104 | 4 | Submersible | 152 | |
| 24 | 18_BGMW24 | 18 | N554408.11 E1562254.72 | 618.8 | 24-Sep-92 | HSA | 77 | 76 | 51-71 | 4 | Submersible | 55 | |
| 25 | 18_BGMW25 | 02 | N550651.83 E1560978.94 | 545.7 | 24-Oct-92 | HSA | 80 | 80 | 55-75 | 4 | Submersible | 72 | |

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method | Borehole Depth | Well Depth | Well Screen Zone | Casing Dia. | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | (See Page 9 for rig type) | (Ft.) | (Ft.) | (Ft.) | (In.) | Type | Set Depth (Ft.) | |
| 26 | 03_BGMW26 | 03 | N552288.07 E1555125.64 | 418.8 | 14-Aug-92 | DTP | 275 | 275 | 230-270 | 4 | Submersible | 265 | |
| 27 | 05_UGMW27 | 05 | N548710.06 E1556748.48 | 439.2 | 24-Jul-92 | DTP | 243 | 243 | 198-238 | 5 | Submersible | 231 | |
| 28 | 06_UGMW28 | 06 | N547789.43 E1551786.37 | 334.8 | 21-Aug-92 | HSA | 190 | 185 | 140-180 | 4 | Submersible | 175 | |
| 29 | 08_UGMW29 | 08 | N546858.01 E1548739.17 | 272.2 | 23-Jul-92 | ARCD | 141 | 140 | 95-135 | 4 | Submersible | 132 | |
| 31 | 12_UGMW31 | 12 | N549259.7 E1546158.98 | 255.6 | 21-Jul-92 | HSA | 150 | 150 | 105-145 | 4 | Submersible | 140 | |
| 32 | 13_UGMW32 | 13 | N552185.56 E1546830.7 | 288.9 | 21-Jul-92 | DTP | 189 | 189 | 144-184 | 4 | Submersible | 181 | |
| 33 | 16_UGMW33 | 16 | N552267.01 E1549825.92 | 337.6 | 27-Aug-92 | HSA | 225 | 225 | 180-220 | 4 | Submersible | 219 | |
| 35 | 19_UGMW35 | 19 | N548882.76 E1551972.18 | 341.6 | 21-Sep-92 | HSA | 190 | 190 | 148-185 | 4 | Submersible | 181 | |
| 36 | 20_UGMW36 | 20 | N556917.91 E1549454.78 | 341 | 17-Jul-92 | HSA | 228 | 228 | 183-223 | 4 | Submersible | 222 | |
| 37 | 21_UGMW37 | 21 | N5483483.25 E1546722.73 | 259.8 | 30-Jul-92 | HSA | 135 | 135 | 89-130 | 4 | Submersible | 125 | |
| 39 | 03_DBMW39 | 03 | N552636.93 E1554306.52 | 419.7 | 04-Aug-92 | DTP | 275 | 275 | 230-270 | 5 | Submersible | 265 | |
| 40 | 04_DBMW40 | 04 | N552177.62 E1553604.22 | 404.1 | 02-Sep-92 | DTP | 265 | 265 | 220-260 | 4 | Submersible | 252 | |
| 41 | 05_DBMW41 | 05 | N548409.45 E1556161.65 | 425.8 | 30-Jul-92 | HSA | 226 | 227 | 182-222 | 4 | Submersible | 221 | |
| 43 | 07_DBMW43 | 07 | N548303.96 E1549287.59 | 295.3 | 09-Sep-92 | HSA | 199 | 195 | 150-190 | 4 | Submersible | 188 | |
| 45 | 09_DBMW45 | 09 | N549844.13 E1547401.81 | 281.4 | 08-Jul-92 | HSA | 162 | 162 | 117-157 | | Submersible | 147 | |
| 47 | 22_DBMW47 | 22 | N549278.2 E1547434.82 | 277.5 | 13-Jul-92 | HSA | 161 | 161 | 116-156 | 4 | Submersible | 147 | |
| 48 | 12_DBMW48 | 12 | N549213.5 E1545490.38 | 247.61 | 22-Sep-92 | HSA | 140 | 140 | 95-135 | 4 | Submersible | 132 | |
| 49 | 13_DBMW49 | 13 | N551909.32 E1546590.64 | 283.9 | 17-Jul-92 | DTP | 187 | 187 | 142-182 | 4 | Submersible | 175 | |
| 50 | 14_DBMW50 | 14 | N551634.5 E1546098.94 | 270.8 | 05-Aug-92 | HSA | 165 | 165 | 120-160 | 4 | Submersible | 150 | |
| 51 | 15_DBMW51 | 15 | N552218.89 E1545914.94 | 270.7 | 28-Jul-92 | HSA | 170 | 170 | 125-165 | 4 | Submersible | 162 | |

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method | Borehole Depth | Well Depth | Well Screen Zone | Casing Dia. | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | (See Page 9 for rig type) | (Ft.) | (Ft.) | (Ft.) | (In.) | Type | Set Depth (Ft.) | |
| 52 | 16_DBMW52 | 16 | N552486.55 E1549394.13 | 336.1 | 03-Sep-92 | HSA | 227 | 227 | 182-222 | 4 | Submersible | 220 | |
| 53 | 17_DBMW53 | 17 | N551078.31 E1557710.54 | G 439.70 | 22-Oct-92 | HSA | 270 | N./A. | N./A. | N./A. | N./A. | N./A. | Abandoned |
| 54 | 19_DBMW54 | 19 | N548942.84 E1551442.84 | 335.5 | 02-Sep-92 | HSA | 186 | 186 | 141-181 | 4 | Submersible | 175 | |
| 55 | 20_DBMW55 | 20 | N556856.24 E1549153.59 | 334.8 | 18-Aug-92 | HSA | 236 | 232 | 187-227 | 5 | Submersible | 222 | |
| 56 | 21_DBMW56 | 21 | N548331.35 E1546527.44 | 255.87 | 01-Oct-92 | HSA | 137 | 137 | 92-132 | 4 | Submersible | 130 | |
| 57 | 01_DGMW57 | 01 | N555155.01 E1562249.52 | 634.3 | 22-Sep-92 | HSA | 88 | 88 | 63-83 | 4 | Submersible | 81 | |
| 58 | 01_DGMW58 | 01 | N555307.26 E1562081.24 | 624.4 | 18-Sep-92 | HSA | 82 | 82 | 57-77 | 4 | Submersible | 75 | |
| 59 | 02_DGMW59 | 02 | N549432.41 E1559707.99 | 506.2 | 23-Oct-92 | HSA | 95 | 94 | 69-89 | 4 | Submersible | 85 | |
| 60 | 02_DGMW60 | 02 | N549246.21 E1559020.11 | 498.6 | 01-Oct-92 | HSA | 106 | 105 | 80-100 | 4 | Submersible | 98 | |
| 61 | 02_DGMW61 | 02 | N549954.72 E1559340.39 | 514.3 | 29-Sep-92 | HSA | 105 | 105 | 80-100 | 4 | Submersible | 98 | |
| 63 | 04_UGMW63 | 04 | N551997.22 E1554049.71 | 403.89 | 13-Oct-92 | DTP | 265 | 280 | 235-275 | 5 | Submersible | 262 | |
| 64 | 03_DGMW64 | 03 | N553006.71 E1553984.71 | 418.19 | 13-Oct-92 | HSA | 290 | 290 | 245-285 | 5 | Submersible | 280 | |
| 65 | | 03 | N552627.48 E1553878.26 | 413.4 | 21-Aug-92 | DTP | 275 | N./A. | N./A. | N./A. | N./A. | N./A. | Abandon |
| 65a | 03_DGMW65A | 03 | N552722.85 E1553736.42 | 409.06 | 20-Oct-92 | HSA | 279 | 275 | 230-270 | 4 | Submersible | 268 | |
| 66 | 04_DGMW66 | 04 | N552307.8 E1553504.02 | 401.55 | 11-Sep-92 | DTP | 295 | 295 | 250-290 | 5 | Submersible | 252 | |
| 67 | 05_DGMW67 | 05 | N548666.1 E1556284.44 | 428.46 | 24-Sep-92 | HSA | 232 | 232 | 187-227 | 5 | Submersible | 220 | |
| 68 | 05_DGMW68 | 05 | N548224.35 E1555843.22 | 417.1 | 01-Oct-92 | ARCD | 215 | 215 | 190-210 | 5 | Submersible | 208 | |
| 69 | 06_DGMW69 | 06 | N548198 E1551191.75 | 324.15 | 17-Sep-92 | HSA | 195 | 195 | 150-190 | 4 | Submersible | 187 | |
| 70 | 07_DBMW70 | 07 | N549075.59 E1549267.95 | 293.33 | 16-Oct-92 | HSA | 170 | 170 | 125-165 | 4 | Submersible | 163 | |
| 71 | 07_DGMW71 | 07 | N548547.07 E1548610.42 | 283.44 | 08-Oct-92 | HSA | 160 | 160 | 115-155 | 4 | Submersible | 153 | |

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method | Borehole Depth | Well Depth | Well Screen Zone | Casing Dia. | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | (See Page 9 for rig type) | (Ft.) | (Ft.) | (Ft.) | (In.) | Type | Set Depth (Ft.) | |
| 72 | 07_DGMW72 | 07 | N548010.99 E1547856.91 | 276.7 | 12-Oct-92 | HSA | 155 | 155 | 110-150 | 4 | Submersible | 147 | |
| 73 | 08_DGMW73 | 08 | N547091.53 E1547853.14 | 263.8 | 01-Sep-92 | HSA | 135 | 135 | 90-130 | 4 | Submersible | 125 | |
| 74 | 08_DGMW74 | 08 | N547253.87 E1547932.84 | 265.7 | 09-Sep-92 | HSA | 135 | 135 | 90-130 | 4 | Submersible | 125 | |
| 75 | 09_DGMW75 | 09 | N549910.37 E1546829.3 | 270.83 | 29-Sep-92 | HSA | 159 | 159 | 114-154 | 4 | Submersible | 153 | |
| 77 | 10_DGMW77 | 10 | N548779.46 E1547313.73 | 271.38 | 25-Sep-92 | HSA | 180 | 175 | 150-170 | 4 | Submersible | 165 | |
| 78 | 13_DGMW78 | 13 | N552020.52 E1546324.24 | 279.2 | 19-Aug-92 | HSA | 172 | 172 | 127-167 | 4 | Submersible | 168 | |
| 79 | 14_DGMW79 | 14 | N551755.03 E1546010 | 270.2 | 07-Aug-92 | HSA | 163 | 163 | 118-158 | 4 | Submersible | 150 | |
| 81 | 16_DGMW81 | 16 | N553042.34 E1548727.96 | 323.11 | 11-Sep-92 | HSA | 221 | 221 | 176-216 | 4 | Submersible | 214 | |
| 82 | 17_DGMW82 | 17 | N550923.30 E1557707.95 | G 442.12 | 15-Jan-93 | ARCD | 269 | 260 | 235-255 | 4 | Submersible | 252 | |
| 85 | 19_DGMW85 | 19 | N548929.76 E1551077.99 | 328.42 | 16-Sep-92 | HSA | 188 | 188 | 143-183 | 4 | Submersible | 181 | |
| 86 | 19_DGMW86 | 19 | N549486.93 E1551064.42 | 332.71 | 30-Sep-92 | HSA | 204 | 203 | 158-198 | 4 | Submersible | 197 | |
| 88 | 10_DGMW88 | 20 | N556953 E1549109.67 | 335.9 | 14-Aug-92 | HSA | 231 | 230 | 185-225 | 4 | Submersible | 223 | |
| 90 | 21_DGMW90 | 21 | N548396.53 E1546430.33 | 255.35 | 15-Sep-92 | HSA | 140 | 140 | 95-135 | 4 | Submersible | 125 | |
| 91 | 07_DGMW91 | 07 | N548183.12 E1547330.09 | 273.19 | 06-Oct-92 | HSA | 155 | 155 | 110-150 | 4 | Submersible | 147 | |
| 100 | 07_CSMW100 | 07 | N547500.77 E1549124.37 | 286.24 | 24-Sep-92 | HSA | 176 | 176 | 131-171 | 4 | Submersible | 168 | |
| 101 | 18_BGMW101 | 18 | N550104.15 E1544018.7 | 230.73 | 11-Sep-92 | HSA | 135 | 135 | 90-130 | 4 | Submersible | 126 | |
| 103 | NA | 18 | N552528.49 E1544671.64 | 252.08 | 10-Dec-92 | MR | 500 | 500 | 395-495 | 4 | None | N./A. | |

**TOTAL NUMBER OF MONITORING WELLS = 94**

**TOAL NUMBER OF MULTI-PORT WELLS = 4**

**SOIL BORINGS - (SHALLOW & DEEP) - GROUTED TO SURFACE UPON COMPLETION**

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method (See Page 9 for rig type) | Borehole Depth (Ft.) | Well Depth (Ft.) | Well Screen Zone (Ft.) | Casing Dia. (In.) | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | | | | | | Type | Set Depth (Ft.) | |
| | | | | Ground | | | | | | | | | |
| 200 | 02_S&DB200 | 02 | N544735.53 E1549711.96 | 266.7 | 07-Oct-92 | HSA | 85 | | | | | | |
| 201 | 06_DB201 | 06 | N547968.44 E1551521.56 | 328.5 | 27-Aug-92 | HSA | 160 | | | | | | |
| 202 | 08_25B202 | 08 | N546830.98 E1548401.9 | 268 | 03-Sep-92 | HSA | 135 | | | | | | |
| 203 | 08_25B203 | 08 | N546992.49 E1548191.82 | 266.9 | 03-Sep-92 | HSA | 25 | | | | | | |
| 204 | 08_25B204 | 08 | N546554.23 E1548613.41 | 273.4 | 27-Aug-92 | HSA | 25 | | | | | | |
| 205 | 08_25B205 | 08 | N546544.35 E1548781.09 | 270.9 | 27-Aug-92 | HSA | 25 | | | | | | |
| 206 | 08_25B206 | 08 | N546522.28 E1548570.73 | 274 | 28-Aug-92 | HSA | 25 | | | | | | |
| 207 | 09_25B207 | 09 | N549805.43 E1547509.95 | 279.3 | 10-Sep-92 | HSA | 25 | | | | | | |
| 208 | 09_DB208 | 10 | N549329.05 E1548011.02 | 283.8 | 31-Jul-92 | HSA | 145 | | | | | | |
| 209 | 09_25B209 | 10 | N548543.83 E1547814.24 | 277.7 | 11-Sep-92 | HSA | 25 | | | | | | |
| 210 | 10_25B210 | 12 | N549156.35 E1545961.49 | 252.5 | 04-Aug-92 | HSA | 25 | | | | | | |
| 211 | 13_25B211 | 13 | N551998.66 E1546483.07 | 277.8 | 04-Aug-92 | HSA | 25 | | | | | | |
| 212 | 16_25B212 | 16 | N552550.41 E1549372.07 | 332.2 | 05-Aug-92 | HSA | 25 | | | | | | |
| 213 | 16_AB213 | 16 | N552576.26 E1549276.51 | 330.7 | 24-Aug-92 | HSA | 60 | | | | | | |
| 214 | 19_25B214 | 19 | N549368.44 E1552312.82 | 349.5 | 10-Sep-92 | HSA | 25 | | | | | | |
| 215 | 19_25B215 | 19 | N548925.67 E1551375.83 | 330.2 | 26-Aug-92 | HSA | 25 | | | | | | |
| 216 | 19_25B216 | 19 | N548925.56 E1551375.69 | 330.1 | 09-Sep-92 | HSA | 25 | | | | | | |
| 217 | 19_AB217 | 19 | N549023.52 E1551459.27 | 335.6 | 25-Aug-92 | HSA | 60 | | | | | | |
| 218 | 19_AB218 | 19 | N548935.19 E1551496.99 | 335.1 | 26-Aug-92 | HSA | 60 | | | | | | |

## *Table E-1*
## *Summary of Borings Monitoring Wells and Construction Details*

**Marine Corps Air Station (MCAS) El Toro**
**Phase I RI/FS (CLEAN Program)**
**Project No. SCO31981.RV.40 (CTO 0145)**

| WELL NO | STATION ID NUMBER | SITE | Location Survey Data | | Well Completion Date | Drilling Method (See Page 9 for rig type) | Borehole Depth (Ft.) | Well Depth (Ft.) | Well Screen Zone (Ft.) | Casing Dia. (In.) | Dedicated Pumps | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Coordinates | Elev. Sound Tube (Ft.) | | | | | | | Type | Set Depth (Ft.) | |
| | | | | Ground | | | | | | | | | |
| 219 | 22_25B219 | 22 | N548969.61 E1548054.93 | 281 | 19-Sep-92 | HSA | 25 | | | | | | |
| 220 | 18_BOAB220 | 18 | N544735.5274 E1549711.96 | 266.7 | 18-Aug-92 | HSA | 60 | | | | | | |
| 221 | 18_BOAB221 | 18 | N549156.35 E1545961.49 | 252.5 | 19-Aug-92 | HSA | 60 | | | | | | |
| 222 | 18_ACAB222 | 18 | N546045.76 E1549212.31 | 271.3 | 06-Aug-92 | HSA | 60 | | | | | | |
| 223 | 18_ACAB223 | 18 | N540686.65 E1549188.53 | 268.5 | 12-Aug-92 | HSA | 60 | | | | | | |
| 224 | 18_ACAB224 | 18 | N545796.83 E1548951.72 | 265.9 | 10-Aug-92 | HSA | 60 | | | | | | |
| 225 | 18_ACAB225 | 18 | N545843.51 E1548908.91 | 268.5 | 17-Aug-92 | HSA | 60 | | | | | | |
| 226 | 18_BEAB226 | 18 | N549106.91 E1545119.06 | 243.3 | 14-Aug-92 | HSA | 60 | | | | | | |
| 227 | 18_BEAB227 | 18 | N549137.47 E1545078.33 | 241.2 | 13-Aug-92 | HSA | 60 | | | | | | |
| 228 | 18_MCAB228 | 18 | N NR E NR | | 21-Aug-92 | HSA | 60 | | | | | | |
| 229 | 18_MCAB229 | 18 | N553562.08 E1543653.52 | 237.5 | 20-Aug-92 | HSA | 60 | | | | | | |

***LEGEND***

**Drill Rig Types:**

1. Mud Rotary (MR)
2. Dual Tube Percussion (DTP)
3. Air Rotary (ARCD)
4. Hollow Stem Auger (HSA)

*TABLE E-2*

***ADDITIONAL WELL CONSTRUCTION DETAILS FOR MULTIPLE PORT WELLS***

| *Well #* | *Borehole Depth* | *Well Depth* | *Casing Diameter (inches)** | *Multiport Zone* | *Screened Interval** | *Sand Pack Interval** | *Pumping Port* | *Measurement Port* | *QA Port* |
|---|---|---|---|---|---|---|---|---|---|
| MP6 | 504.3 | 495 | 4 | E | 105-115 | 95-125 | 114 | 109 | 124 |
| | | | | D | 168-178 | 159-180 | 177 | 172 | 187,157 |
| | | | | C | 295-305 | 285-312 | 304 | 299 | 314,284 |
| | | | | B | 380-390 | 370-403 | 389 | 384 | 399,369 |
| | | | | A | 445-455 | 431-467 | 454 | 449 | 464,434 |
| MP8 | 498 | 488 | 4 | E | 61-71 | 49-80 | 75 | 70 | 80 |
| | | | | D | 126-136 | 110-150 | 135 | 130 | 145,125,11 |
| | | | | C | 297-307 | 278-312 | 305 | 300 | 5 |
| | | | | B | 379-389 | NONE | NONE | NONE | 315,285 |
| | | | | A | 439-449 | 428-460 | 447 | 442 | 377,367 |
| | | | | | | | | | 457,427 |
| MP9 | 513 | 503 | 4 | F | 59-69 | 48-79 | 67 | 63 | 77 |
| | | | | E | 133-143 | 123-151 | 142 | 137 | 122,152 |
| | | | | D | 222-232 | 211-240 | 231 | 226 | 211 |
| | | | | C | 268-278 | 259-286 | 278 | 273 | 257 |
| | | | | B | 374-384 | 363-395 | 383 | 378 | 363 |
| | | | | A | 453-463 | 444-473.4 | 462 | 457 | 442 |
| MP10 | 1060 | 1052 | 4 | F | 218-228 | 205-237 | 227 | 222 | 237,207 |
| | | | | E | 429-439 | 416-449 | 437 | 432 | 447,417 |
| | | | | D | 563-573 | 547-590 | 572 | 567 | 582,552 |
| | | | | C | 752-762 | 738-785 | 759 | 754 | 769,740 |
| | | | | B | 887-897 | 868-913 | 894 | 889 | 904,874 |
| | | | | A | 1001-1011 | 987-1028 | 1010 | 1005 | 1020,990 |

NOTES:
*Sand pack is #3 Monterey, and includes 3' to 5' of transition sand at top and bottom of interval
*Well screen is schedule 10 stainless steel 0.020 in. slots. Well MP10 screen slots saw cut, all other screens wire wound.
*Well casing, 15 ft. above and 10 ft. below screen, is schedule 10 stainless steel, remainder is schedule 40 carbon steel.

C:\GWA\MPSCREEN

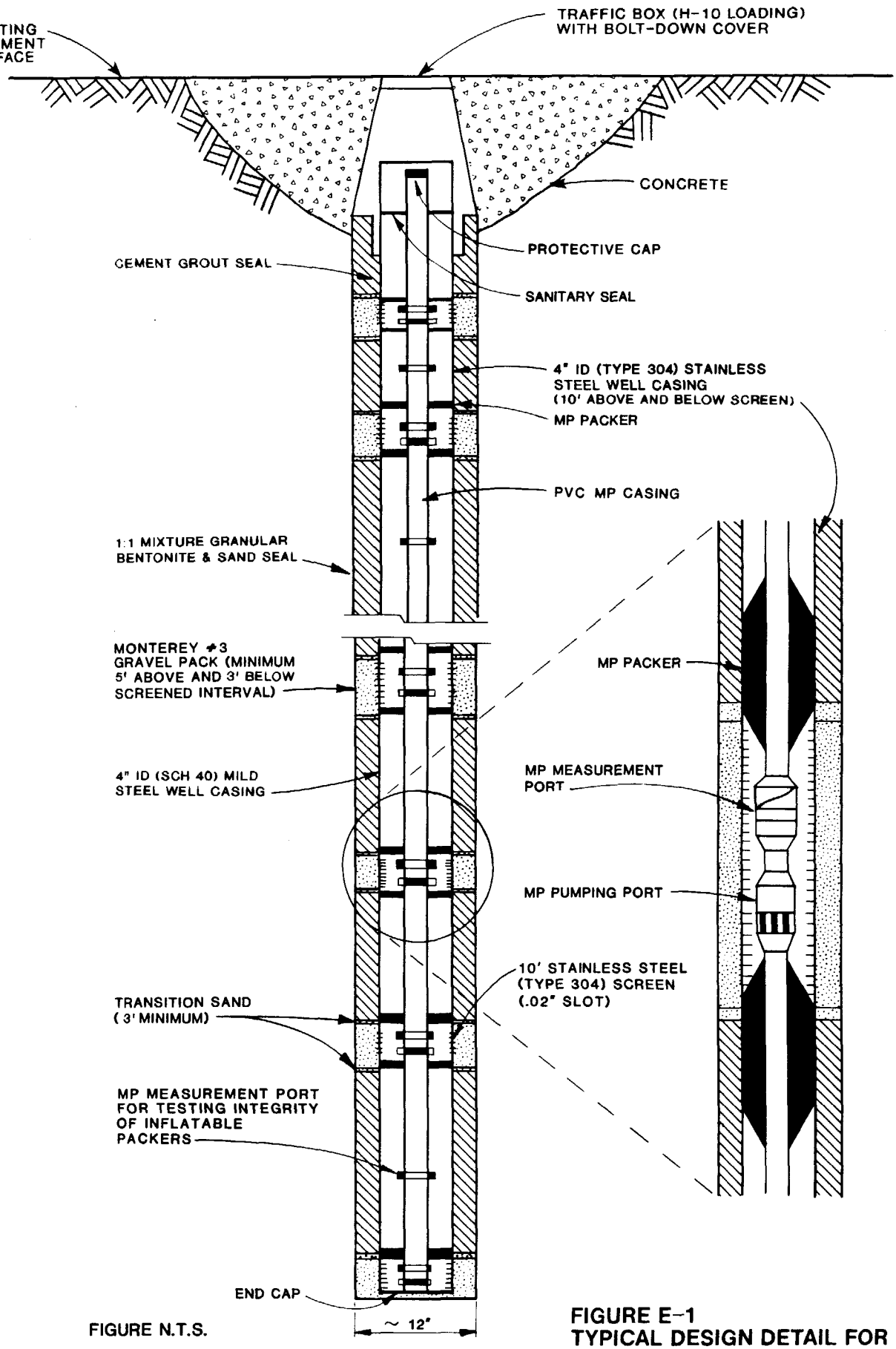


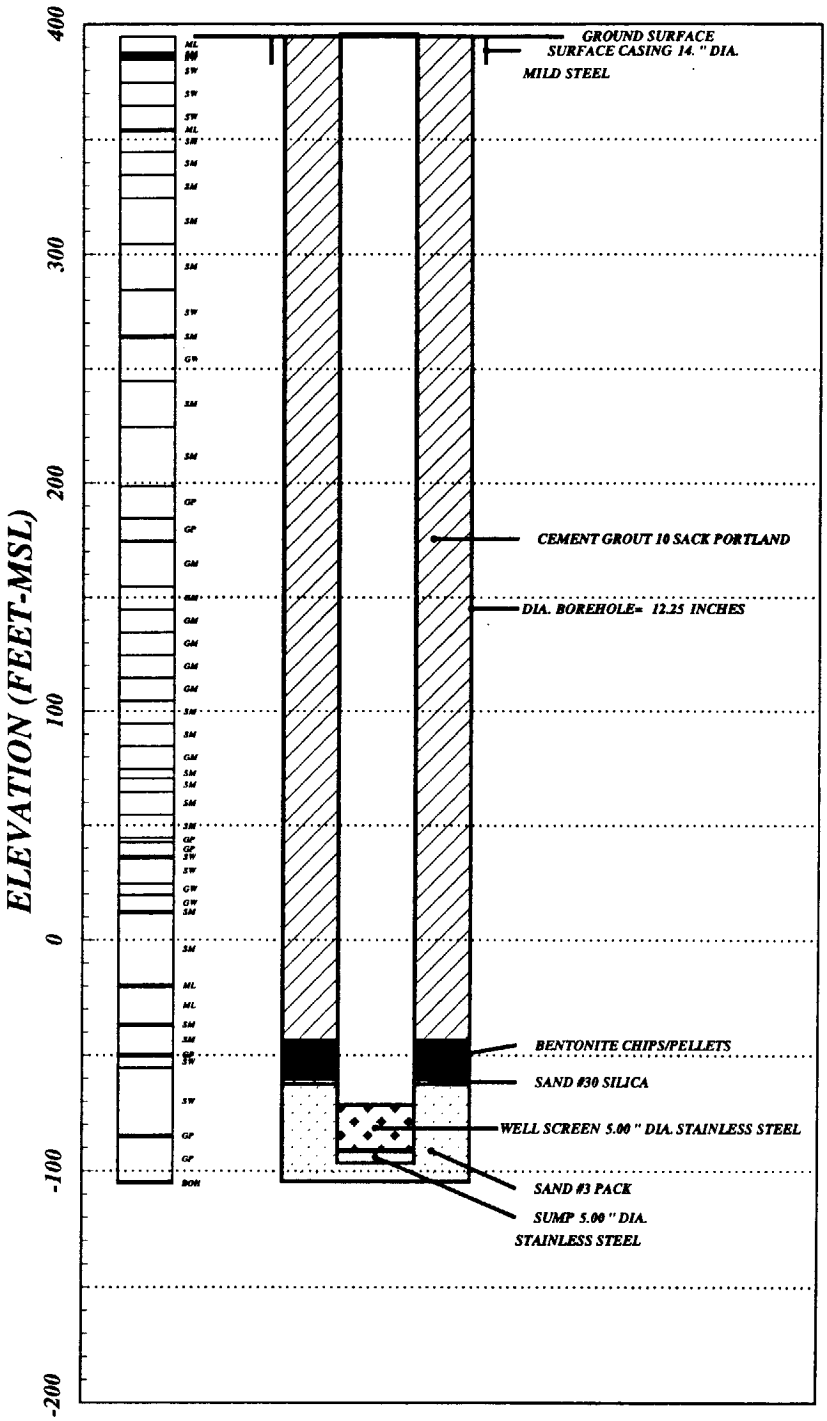

FIGURE N.T.S.

**FIGURE E-1**
**TYPICAL DESIGN DETAIL FOR MULTIPLE PORT MONITORING WELL**

MCAS EL TORO PHASE I RI
TECHNICAL MEMORANDUM

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW1A WELLID 1A

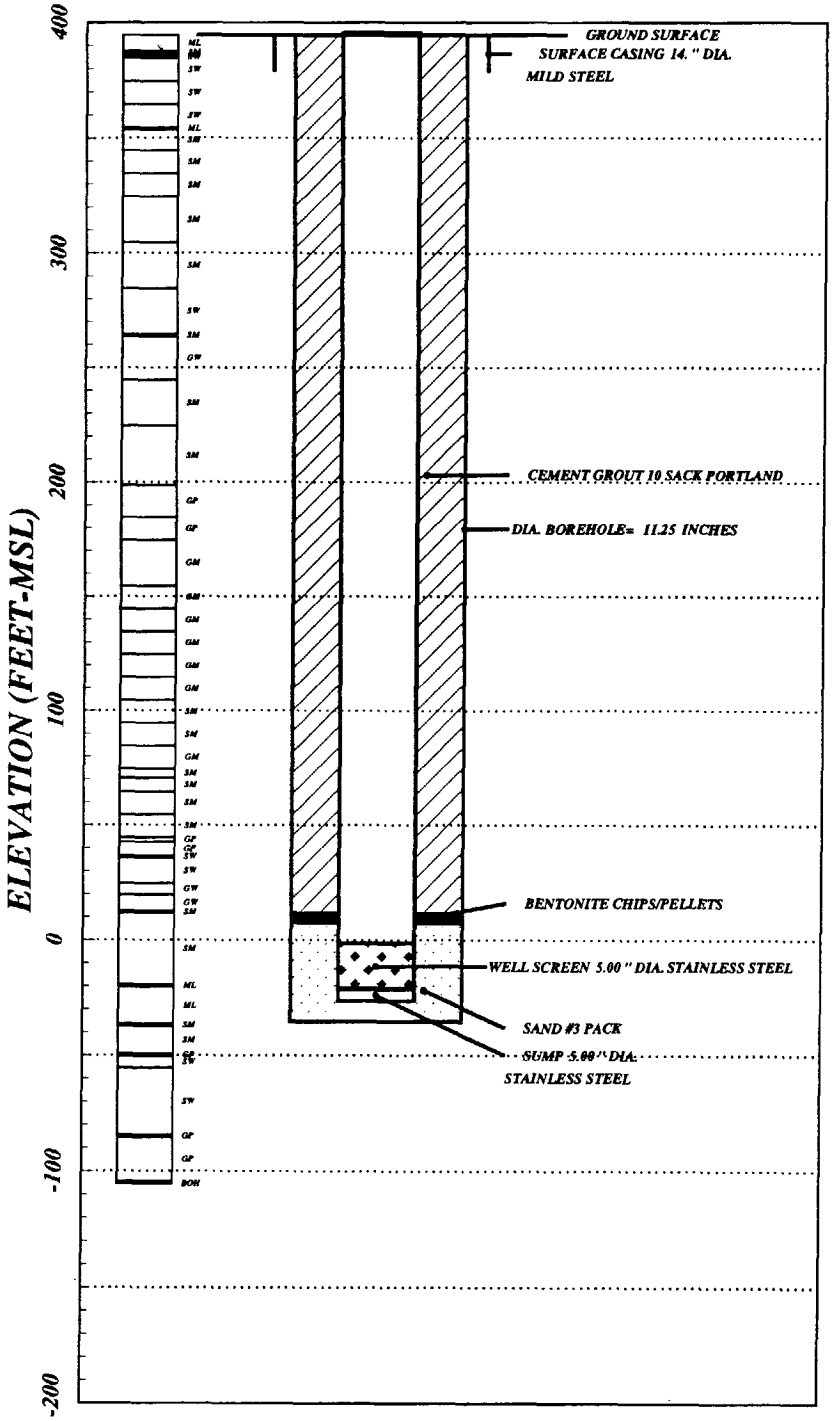



| | |
|---|---|
| ELOG DATA | AVAILABLE |
| DEPTH= | 500.0 |
| ELEV= | 394.6 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 394.6 |
| 7.0 | ML | 387.6 |
| 8.0 | SM | 386.6 |
| 9.0 | SM | 385.6 |
| 10.0 | SW | 384.6 |
| 20.0 | SW | 374.6 |
| 30.0 | SW | 364.6 |
| 40.0 | SW | 354.6 |
| 41.0 | ML | 353.6 |
| 50.0 | SM | 344.6 |
| 60.0 | SM | 334.6 |
| 70.0 | SM | 324.6 |
| 90.0 | SM | 304.6 |
| 110.0 | SM | 284.6 |
| 130.0 | SW | 264.6 |
| 131.0 | SM | 263.6 |
| 150.0 | GW | 244.6 |
| 170.0 | SM | 224.6 |
| 196.0 | SM | 198.6 |
| 210.0 | GP | 184.6 |
| 220.0 | GP | 174.6 |
| 240.0 | GM | 154.6 |
| 250.0 | GM | 144.6 |
| 260.0 | GM | 134.6 |
| 270.0 | GM | 124.6 |
| 280.0 | GM | 114.6 |
| 290.0 | GM | 104.6 |
| 300.0 | SM | 94.6 |
| 310.0 | SM | 84.6 |
| 320.0 | GM | 74.6 |
| 324.0 | SM | 70.6 |
| 330.0 | SM | 64.6 |
| 340.0 | SM | 54.6 |
| 350.0 | SM | 44.6 |
| 352.0 | GP | 42.6 |
| 358.0 | GP | 36.6 |
| 359.0 | SW | 35.6 |
| 370.0 | SW | 24.6 |
| 375.0 | GW | 19.6 |
| 382.0 | GW | 12.6 |
| 383.0 | SM | 11.6 |
| 414.0 | SM | -19.5 |
| 415.0 | ML | -20.5 |
| 431.0 | ML | -36.5 |
| 432.0 | SM | -37.5 |
| 444.0 | SM | -49.5 |
| 445.0 | GP | -50.5 |
| 450.0 | SW | -55.5 |
| 479.0 | SW | -84.5 |
| 480.0 | GP | -85.5 |
| 499.0 | GP | -104.5 |
| 500.0 | BOH | -105.5 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW1B WELLID 1B

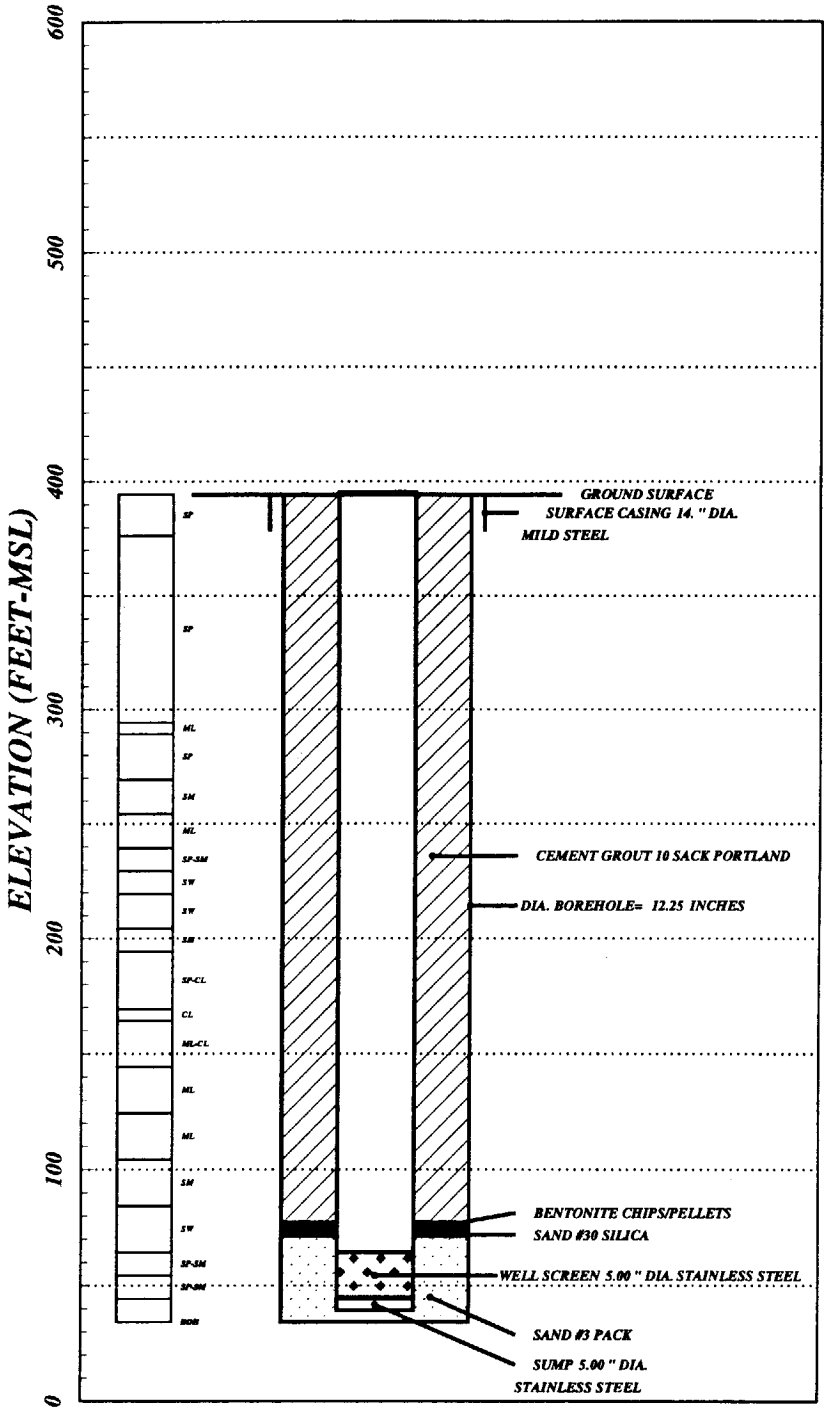



| ELOG DATA | AVAILABLE |
|---|---|
| DEPTH= | 500.0 |
| ELEV= | 394.6 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 394.6 |
| 7.0 | ML | 387.6 |
| 8.0 | SM | 386.6 |
| 9.0 | SM | 385.6 |
| 10.0 | SW | 384.6 |
| 20.0 | SW | 374.6 |
| 30.0 | SW | 364.6 |
| 40.0 | SW | 354.6 |
| 41.0 | ML | 353.6 |
| 50.0 | SM | 344.6 |
| 60.0 | SM | 334.6 |
| 70.0 | SM | 324.6 |
| 90.0 | SM | 304.6 |
| 110.0 | SM | 284.6 |
| 130.0 | SW | 264.6 |
| 131.0 | SM | 263.6 |
| 150.0 | GW | 244.6 |
| 170.0 | SM | 224.6 |
| 196.0 | SM | 198.6 |
| 210.0 | GP | 184.6 |
| 220.0 | GP | 174.6 |
| 240.0 | GM | 154.6 |
| 250.0 | GM | 144.6 |
| 260.0 | GM | 134.6 |
| 270.0 | GM | 124.6 |
| 280.0 | GM | 114.6 |
| 290.0 | GM | 104.6 |
| 300.0 | SM | 94.6 |
| 310.0 | SM | 84.6 |
| 320.0 | GM | 74.6 |
| 324.0 | SM | 70.6 |
| 330.0 | SM | 64.6 |
| 340.0 | SM | 54.6 |
| 350.0 | SM | 44.6 |
| 352.0 | GP | 42.6 |
| 358.0 | GP | 36.6 |
| 359.0 | SW | 35.6 |
| 370.0 | SW | 24.6 |
| 375.0 | GW | 19.6 |
| 382.0 | GW | 12.6 |
| 383.0 | SM | 11.6 |
| 414.0 | SM | -19.5 |
| 415.0 | ML | -20.5 |
| 431.0 | ML | -36.5 |
| 432.0 | SM | -37.5 |
| 444.0 | SM | -49.5 |
| 445.0 | GP | -50.5 |
| 450.0 | SW | -55.5 |
| 479.0 | SW | -84.5 |
| 480.0 | GP | -85.5 |
| 499.0 | GP | -104.5 |
| 500.0 | BOH | -105.5 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW1C WELLID 1C

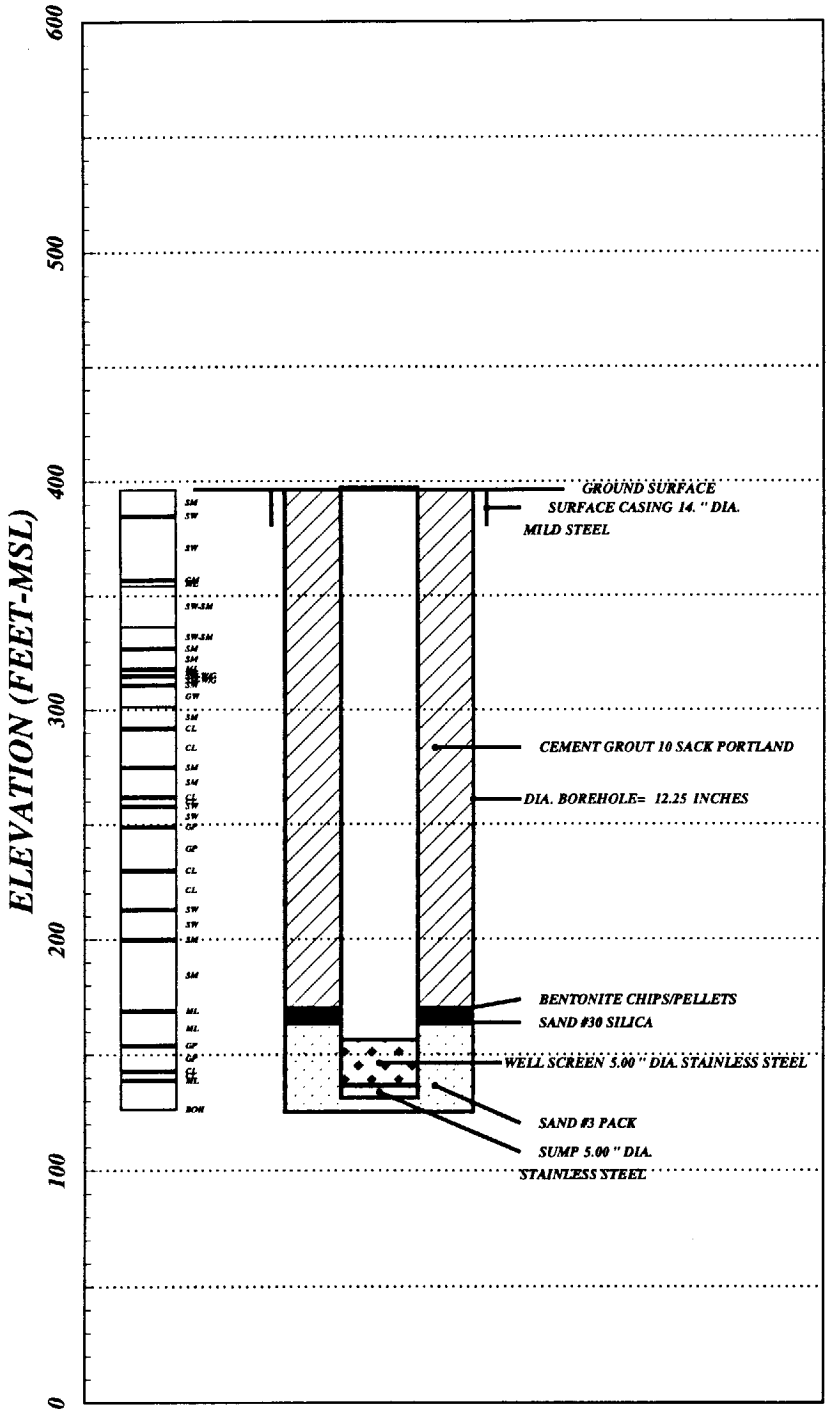



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 360.0 |
| ELEV= | 394.3 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 394.3 |
| 18.0 | SP | 376.3 |
| 100.0 | SP | 294.3 |
| 105.0 | ML | 289.3 |
| 125.0 | SP | 269.3 |
| 140.0 | SM | 254.3 |
| 155.0 | ML | 239.3 |
| 165.0 | SP-SM | 229.3 |
| 175.0 | SW | 219.3 |
| 190.0 | SW | 204.3 |
| 200.0 | SM | 194.3 |
| 225.0 | SP-CL | 169.3 |
| 230.0 | CL | 164.3 |
| 250.0 | ML-CL | 144.3 |
| 270.0 | ML | 124.3 |
| 290.0 | ML | 104.3 |
| 310.0 | SM | 84.3 |
| 330.0 | SW | 64.3 |
| 340.0 | SP-SM | 54.3 |
| 350.0 | SP-SM | 44.3 |
| 360.0 | BOH | 34.3 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW1D WELLID 1D

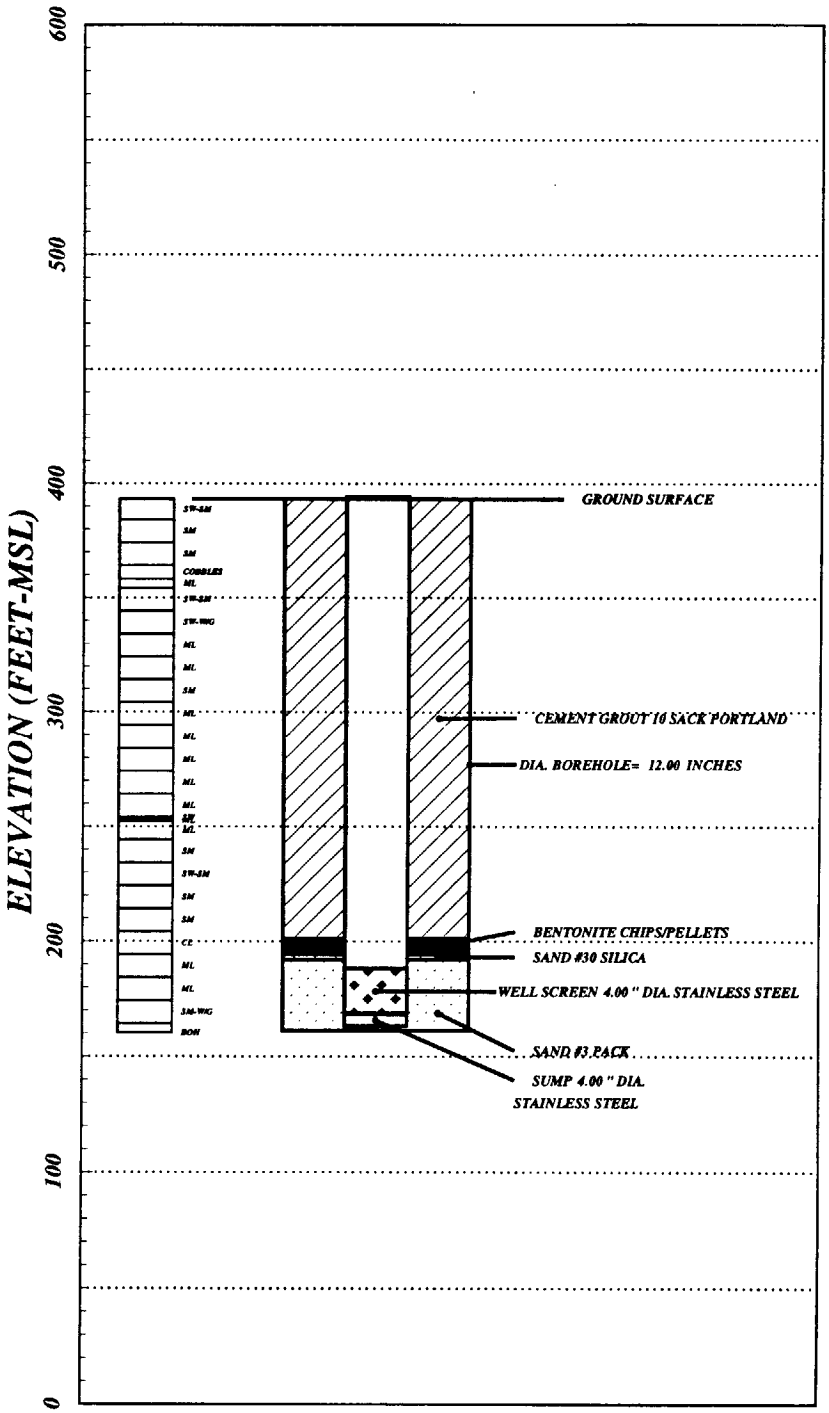



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 270.0 |
| ELEV= | 396.3 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 396.3 |
| 11.0 | SM | 385.3 |
| 12.0 | SW | 384.3 |
| 39.0 | SW | 357.3 |
| 40.0 | GM | 356.3 |
| 42.0 | ML | 354.3 |
| 60.0 | SW-SM | 336.3 |
| 69.0 | SW-SM | 327.3 |
| 70.0 | SM | 326.3 |
| 78.0 | SM | 318.3 |
| 79.0 | ML | 317.3 |
| 81.0 | ML | 315.3 |
| 82.0 | SM-W/G | 314.3 |
| 85.0 | SM-W/G | 311.3 |
| 86.0 | SM | 310.3 |
| 95.0 | GW | 301.3 |
| 104.0 | SM | 292.3 |
| 105.0 | CL | 291.3 |
| 121.0 | CL | 275.3 |
| 122.0 | SM | 274.3 |
| 134.0 | SM | 262.3 |
| 135.0 | CL | 261.3 |
| 138.0 | CL | 258.3 |
| 139.0 | SW | 257.3 |
| 147.0 | SW | 249.3 |
| 148.0 | GP | 248.3 |
| 166.0 | GP | 230.3 |
| 167.0 | CL | 229.3 |
| 183.0 | CL | 213.3 |
| 184.0 | SW | 212.3 |
| 196.0 | SW | 200.3 |
| 197.0 | SM | 199.3 |
| 227.0 | SM | 169.3 |
| 228.0 | ML | 168.3 |
| 242.0 | ML | 154.3 |
| 243.0 | GP | 153.3 |
| 253.0 | GP | 143.3 |
| 254.0 | CL | 142.3 |
| 257.0 | CL | 139.3 |
| 258.0 | ML | 138.3 |
| 270.0 | BOH | 126.3 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW1E WELLID 1E




| | |
|---|---|
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| ELEV= | 393.2 |

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|---|---|---|
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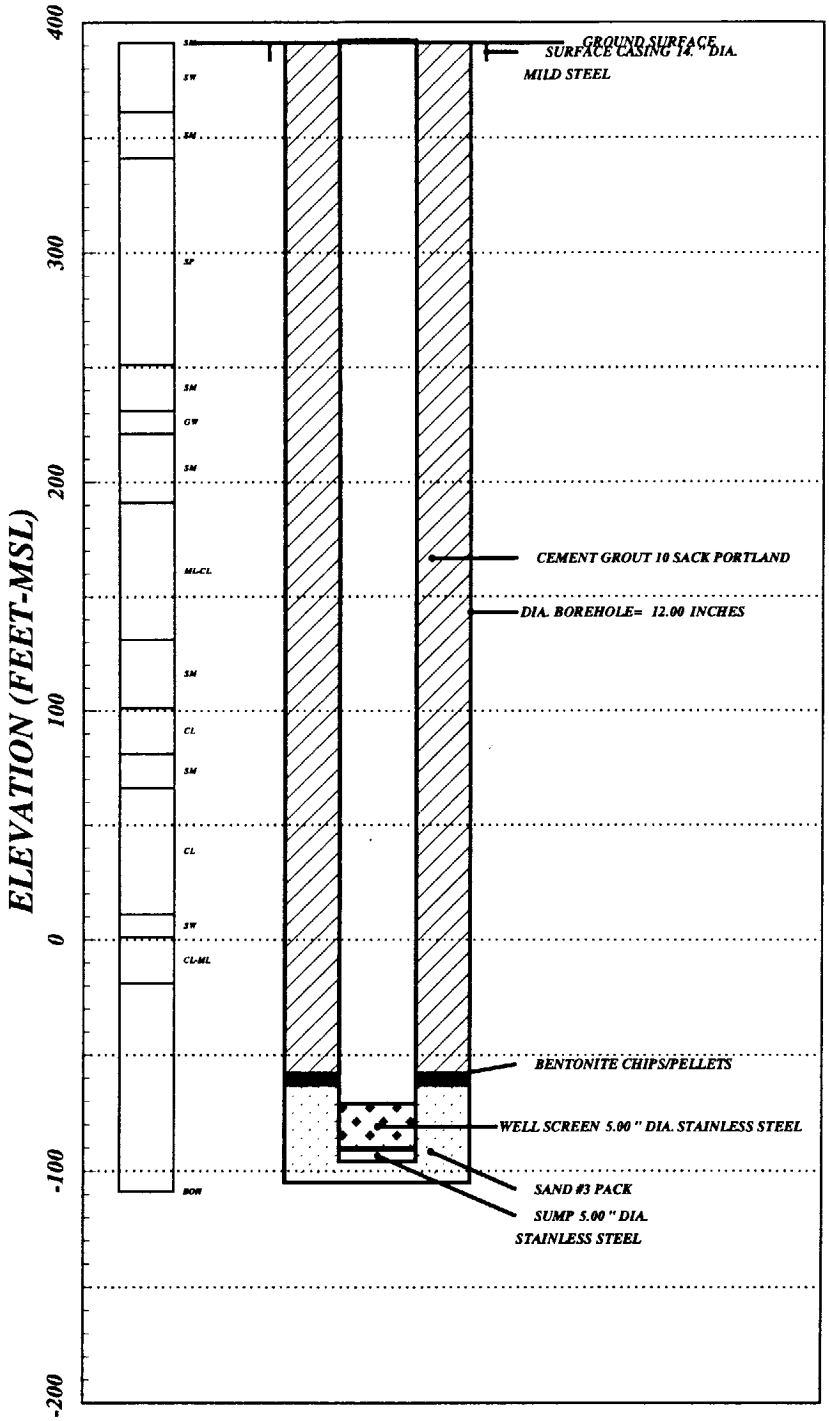
| 9.0 | SW-SM | 384.2 |
| 19.0 | SM | 374.2 |
| 29.0 | SM | 364.2 |
| 35.0 | COBBLES | 358.2 |
| 39.0 | ML | 354.2 |
| 49.0 | SW-SM | 344.2 |
| 59.0 | SW-WG | 334.2 |
| 69.0 | ML | 324.2 |
| 79.0 | ML | 314.2 |
| 89.0 | SM | 304.2 |
| 99.0 | ML | 294.2 |
| 109.0 | ML | 284.2 |
| 119.0 | ML | 274.2 |
| 129.0 | ML | 264.2 |
| 139.0 | ML | 254.2 |
| 140.0 | SW | 253.2 |
| 141.0 | ML | 252.2 |
| 149.0 | ML | 244.2 |
| 159.0 | SM | 234.2 |
| 169.0 | SW-SM | 224.2 |
| 179.0 | SM | 214.2 |
| 189.0 | SM | 204.2 |
| 199.0 | CL | 194.2 |
| 209.0 | ML | 184.2 |
| 219.0 | ML | 174.2 |
| 229.0 | SM-WG | 164.2 |
| 233.0 | BOH | 160.2 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW2A WELLID 2A




| | |
|---|---|
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| ELEV= | 391.1 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
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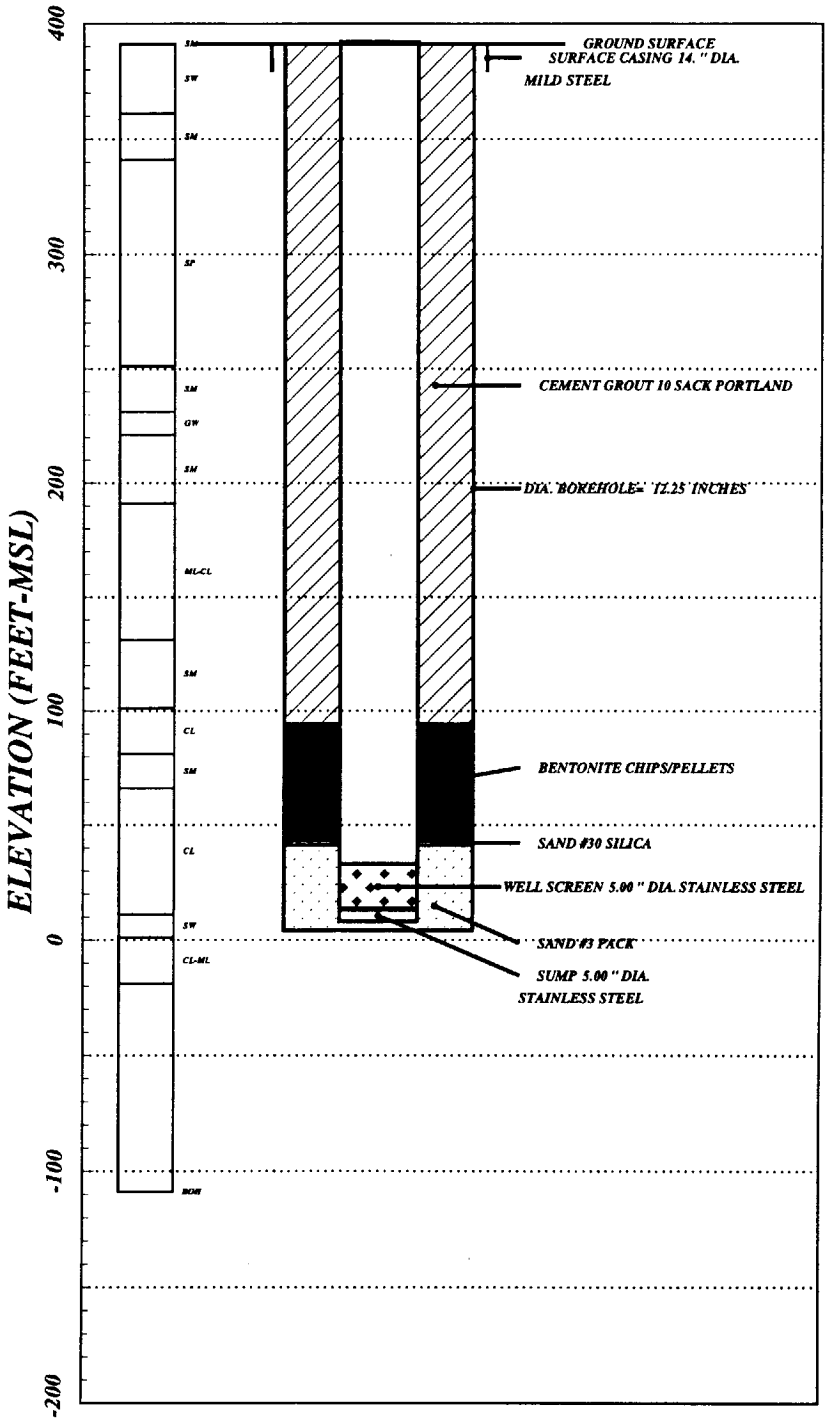
| 0.0 | SM | 391.1 |
| 30.0 | SW | 361.1 |
| 50.0 | SM | 341.1 |
| 140.0 | SP | 251.1 |
| 160.0 | SM | 231.1 |
| 170.0 | GW | 221.1 |
| 200.0 | SM | 191.1 |
| 260.0 | ML-CL | 131.1 |
| 290.0 | SM | 101.1 |
| 310.0 | CL | 81.1 |
| 325.0 | SM | 66.1 |
| 380.0 | CL | 11.1 |
| 390.0 | SW | 1.1 |
| 410.0 | CL-ML | -18.9 |
| 500.0 | BOH | -108.9 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW2C WELLID 2C

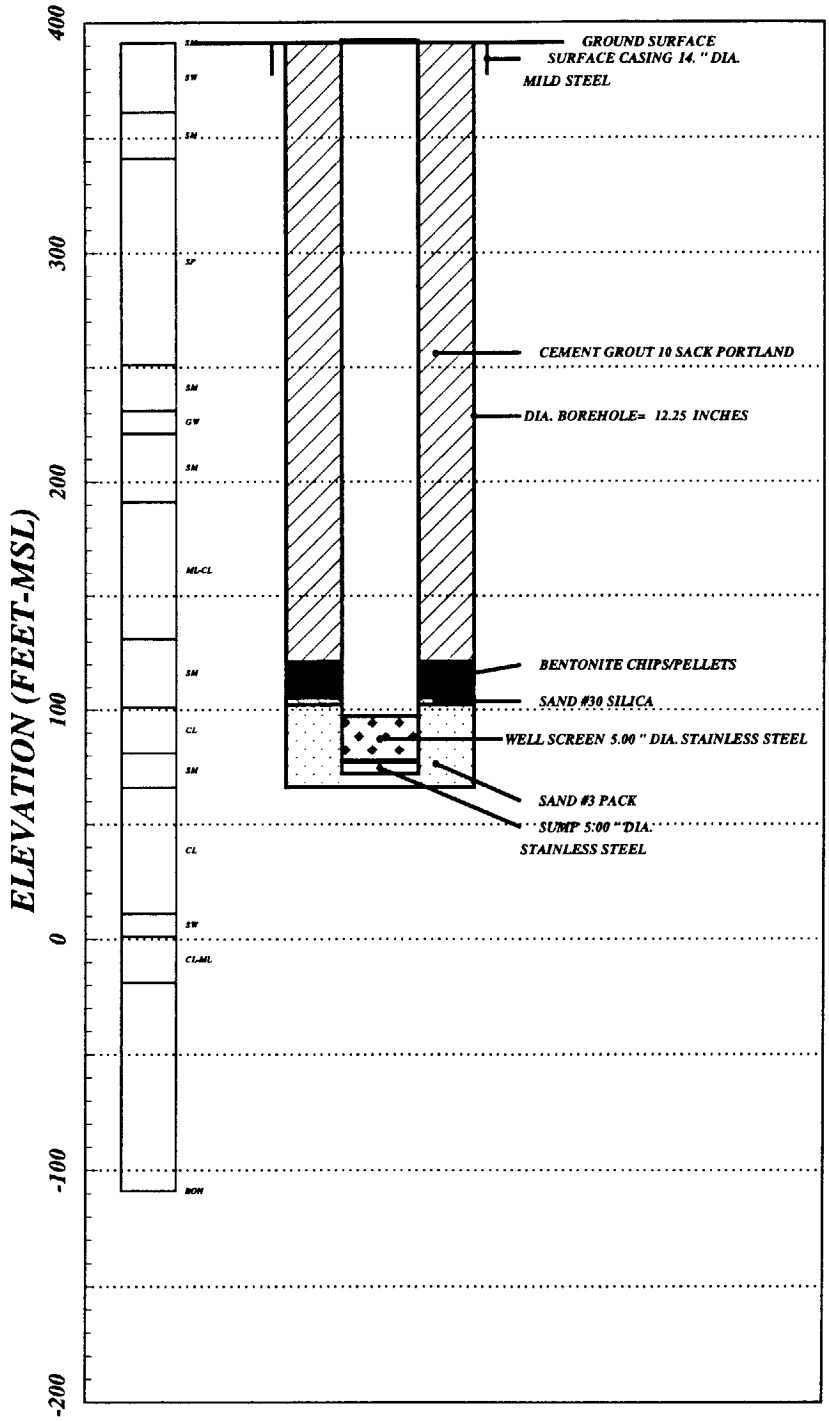



| ELOG DATA | AVAILABLE |
|---|---|
| DEPTH= | 500.0 |
| ELEV= | 391.1 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 391.1 |
| 0.0 | SM | 391.1 |
| 30.0 | SW | 361.1 |
| 50.0 | SM | 341.1 |
| 140.0 | SP | 251.1 |
| 160.0 | SM | 231.1 |
| 170.0 | GW | 221.1 |
| 200.0 | SM | 191.1 |
| 260.0 | ML-CL | 131.1 |
| 290.0 | SM | 101.1 |
| 310.0 | CL | 81.1 |
| 325.0 | SM | 66.1 |
| 380.0 | CL | 11.1 |
| 390.0 | SW | 1.1 |
| 410.0 | CL-ML | -18.9 |
| 500.0 | BOH | -108.9 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW2D WELLID 2D

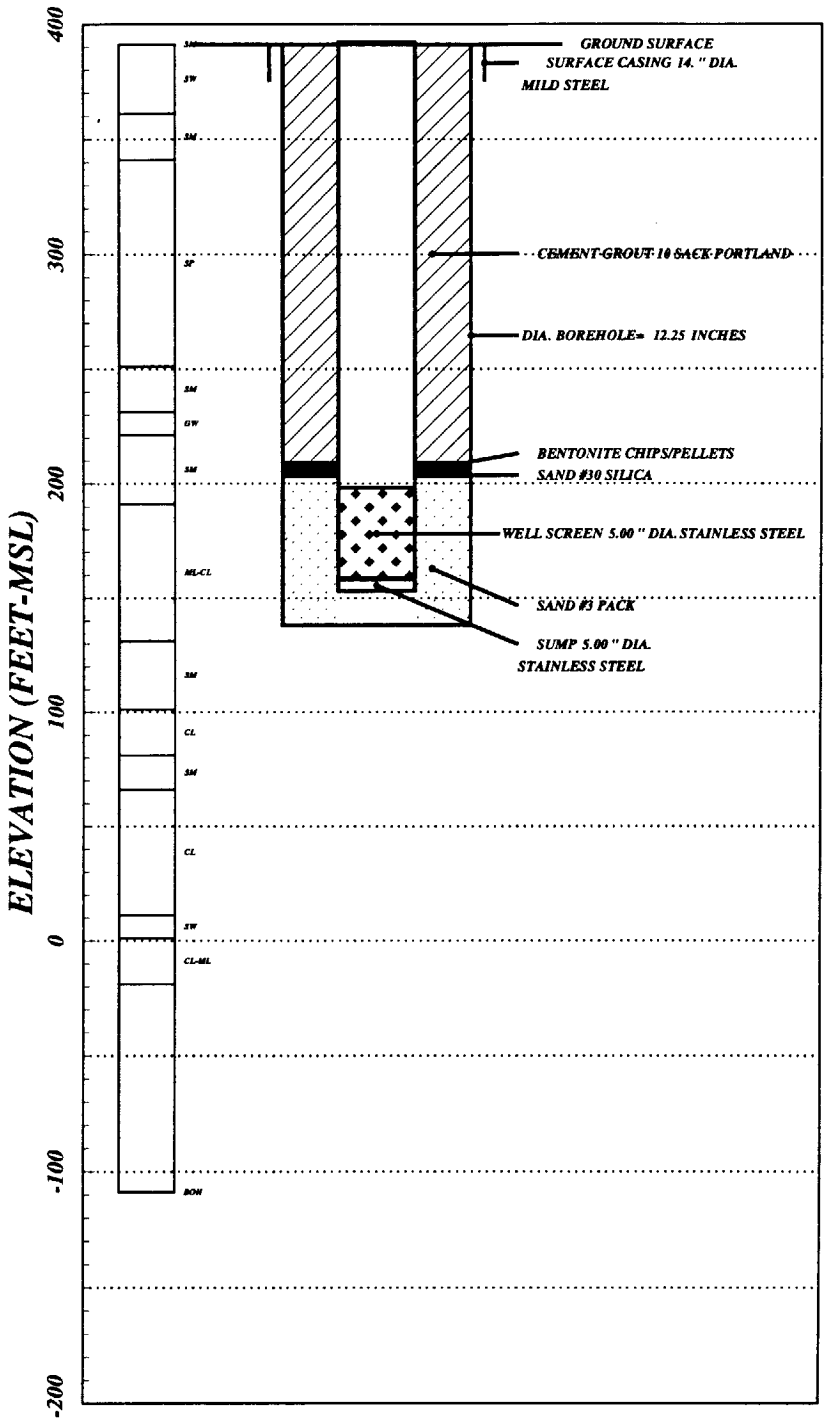



| ELOG DATA | AVAILABLE |
|---|---|
| DEPTH= | 500.0 |
| ELEV= | 391.1 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 391.1 |
| 0.0 | SM | 391.1 |
| 30.0 | SW | 361.1 |
| 50.0 | SM | 341.1 |
| 140.0 | SP | 251.1 |
| 160.0 | SM | 231.1 |
| 170.0 | GW | 221.1 |
| 200.0 | SM | 191.1 |
| 260.0 | ML-CL | 131.1 |
| 290.0 | SM | 101.1 |
| 310.0 | CL | 81.1 |
| 325.0 | SM | 66.1 |
| 380.0 | CL | 11.1 |
| 390.0 | SW | 1.1 |
| 410.0 | CL-ML | -18.9 |
| 500.0 | BOH | -108.9 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW2E WELLID 2E

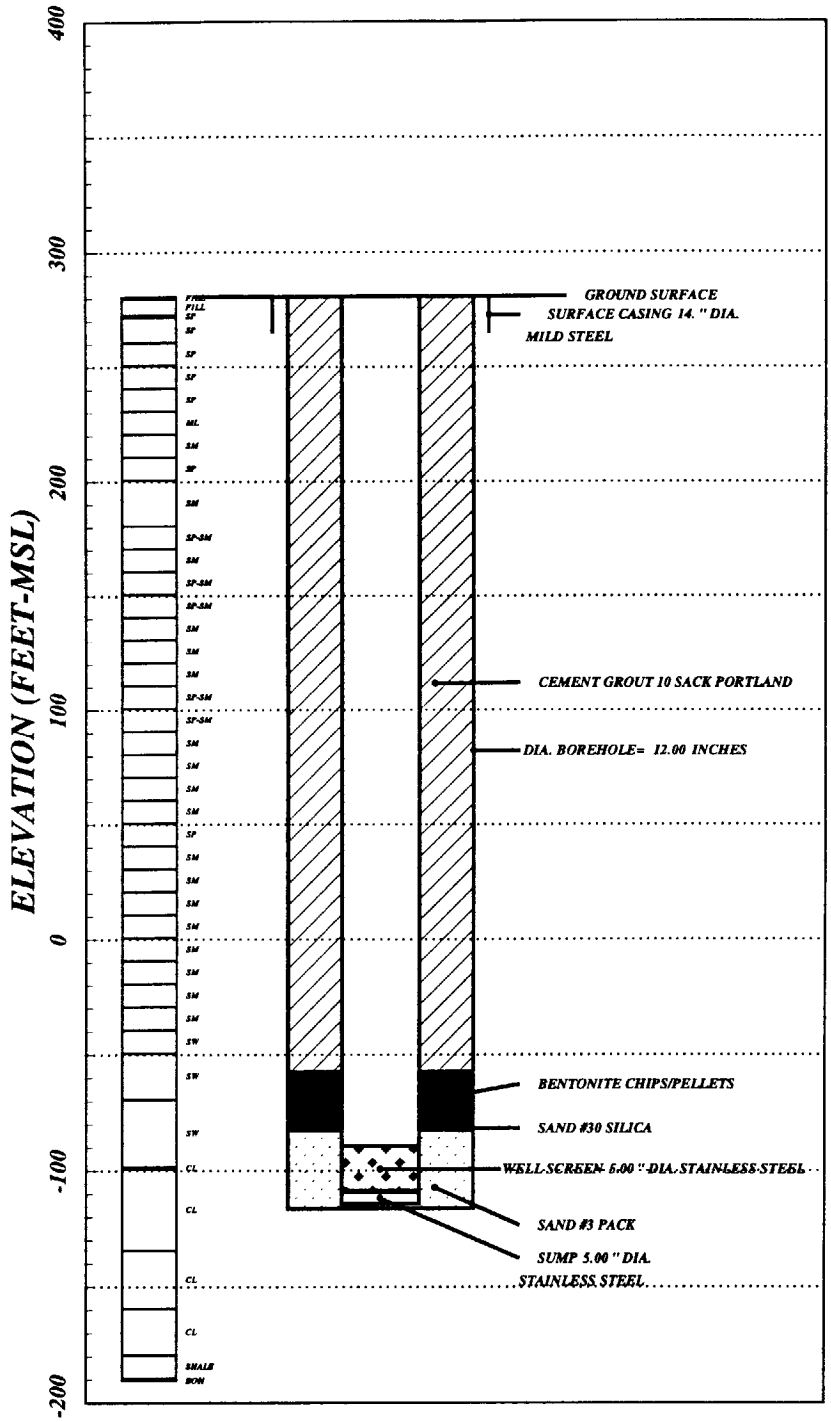



| ELOG DATA | AVAILABLE |
|---|---|
| DEPTH= | 500.0 |
| ELEV= | 391.1 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 391.1 |
| 0.0 | SM | 391.1 |
| 30.0 | SW | 361.1 |
| 50.0 | SM | 341.1 |
| 140.0 | SP | 251.1 |
| 160.0 | SM | 231.1 |
| 170.0 | GW | 221.1 |
| 200.0 | SM | 191.1 |
| 260.0 | ML-CL | 131.1 |
| 290.0 | SM | 101.1 |
| 310.0 | CL | 81.1 |
| 325.0 | SM | 66.1 |
| 380.0 | CL | 11.1 |
| 390.0 | SW | 1.1 |
| 410.0 | CL-ML | -18.9 |
| 500.0 | BOH | -108.9 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW3A WELLID 3A

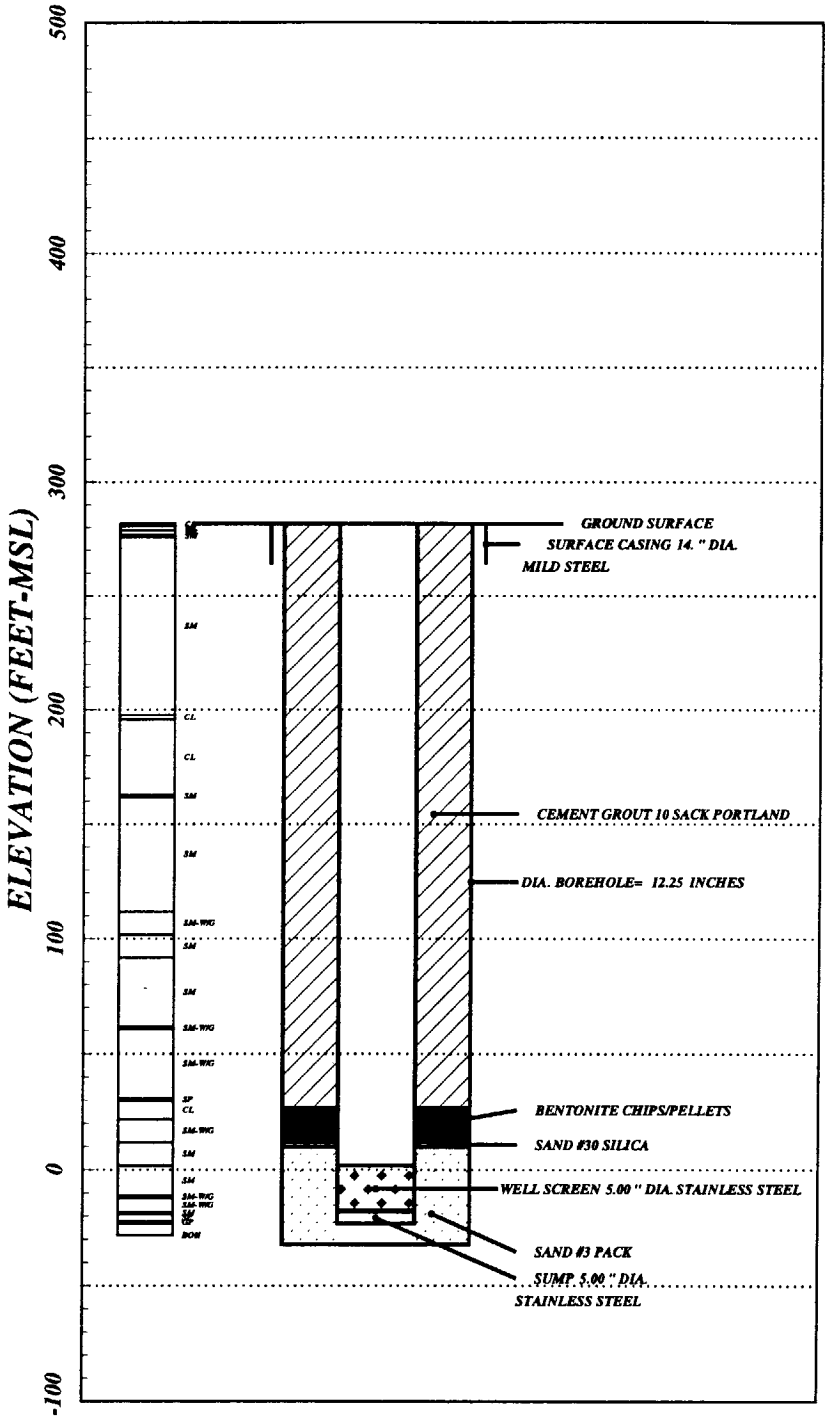



| | | |
|---|---|---|
| ELOG DATA | | AVAILABLE |
| DEPTH= | | 471.0 |
| ELEV= | | 280.7 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 280.7 |
| 1.0 | FILL | 279.7 |
| 8.0 | FILL | 272.7 |
| 9.0 | SP | 271.7 |
| 20.0 | SP | 260.7 |
| 30.0 | SP | 250.7 |
| 40.0 | SP | 240.7 |
| 50.0 | SP | 230.7 |
| 60.0 | ML | 220.7 |
| 70.0 | SM | 210.7 |
| 80.0 | SP | 200.7 |
| 100.0 | SM | 180.7 |
| 110.0 | SP-SM | 170.7 |
| 120.0 | SM | 160.7 |
| 130.0 | SP-SM | 150.7 |
| 140.0 | SP-SM | 140.7 |
| 150.0 | SM | 130.7 |
| 160.0 | SM | 120.7 |
| 170.0 | SM | 110.7 |
| 180.0 | SP-SM | 100.7 |
| 190.0 | SP-SM | 90.7 |
| 200.0 | SM | 80.7 |
| 210.0 | SM | 70.7 |
| 220.0 | SM | 60.7 |
| 230.0 | SM | 50.7 |
| 240.0 | SP | 40.7 |
| 250.0 | SM | 30.7 |
| 260.0 | SM | 20.7 |
| 270.0 | SM | 10.7 |
| 280.0 | SM | 0.7 |
| 290.0 | SM | -9.3 |
| 300.0 | SM | -19.3 |
| 310.0 | SM | -29.3 |
| 320.0 | SM | -39.3 |
| 330.0 | SW | -49.3 |
| 350.0 | SW | -69.3 |
| 379.0 | SW | -98.3 |
| 380.0 | CL | -99.3 |
| 415.0 | CL | -134.3 |
| 440.0 | CL | -159.3 |
| 460.0 | CL | -179.3 |
| 470.0 | SHALE | -189.3 |
| 471.0 | BOH | -190.3 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW3B WELLID 3B

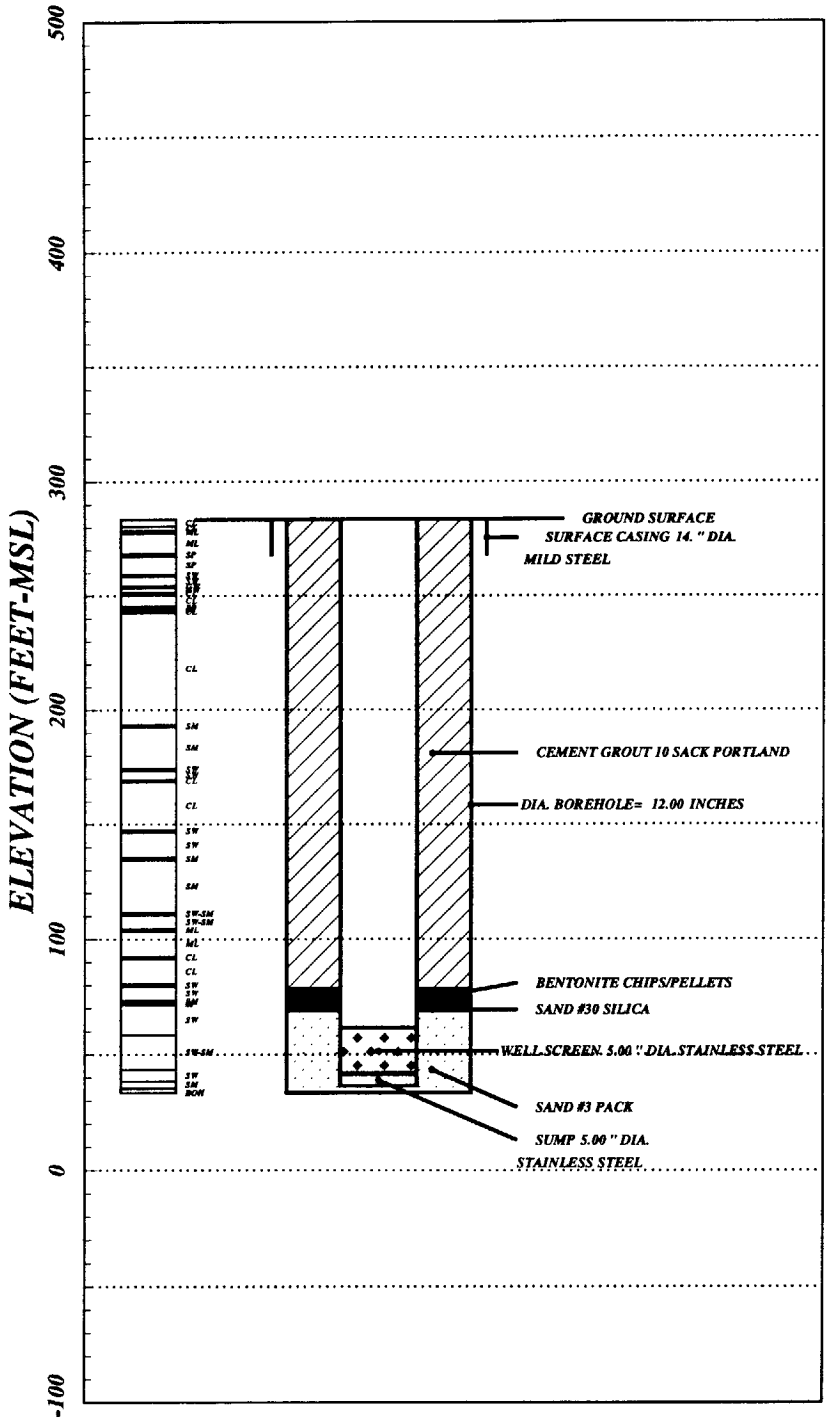



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 310.0 |
| ELEV= | 281.7 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 281.7 |
| 1.0 | CL | 280.7 |
| 3.0 | ML | 278.7 |
| 5.0 | ML | 276.7 |
| 6.0 | SM | 275.7 |
| 84.0 | SM | 197.7 |
| 86.0 | CL | 195.7 |
| 119.0 | CL | 162.7 |
| 120.0 | SM | 161.7 |
| 170.0 | SM | 111.7 |
| 180.0 | SM-W/G | 101.7 |
| 190.0 | SM | 91.7 |
| 220.0 | SM | 61.7 |
| 221.0 | SM-W/G | 60.7 |
| 251.0 | SM-W/G | 30.7 |
| 252.0 | SP | 29.7 |
| 260.0 | CL | 21.7 |
| 270.0 | SM-W/G | 11.7 |
| 280.0 | SM | 1.7 |
| 293.0 | SM | -11.3 |
| 294.0 | SM-W/G | -12.3 |
| 300.0 | SM-W/G | -18.3 |
| 301.0 | SM | -19.3 |
| 304.0 | SP | -22.3 |
| 305.0 | GP | -23.3 |
| 310.0 | BOH | -28.3 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW3C WELLID 3C

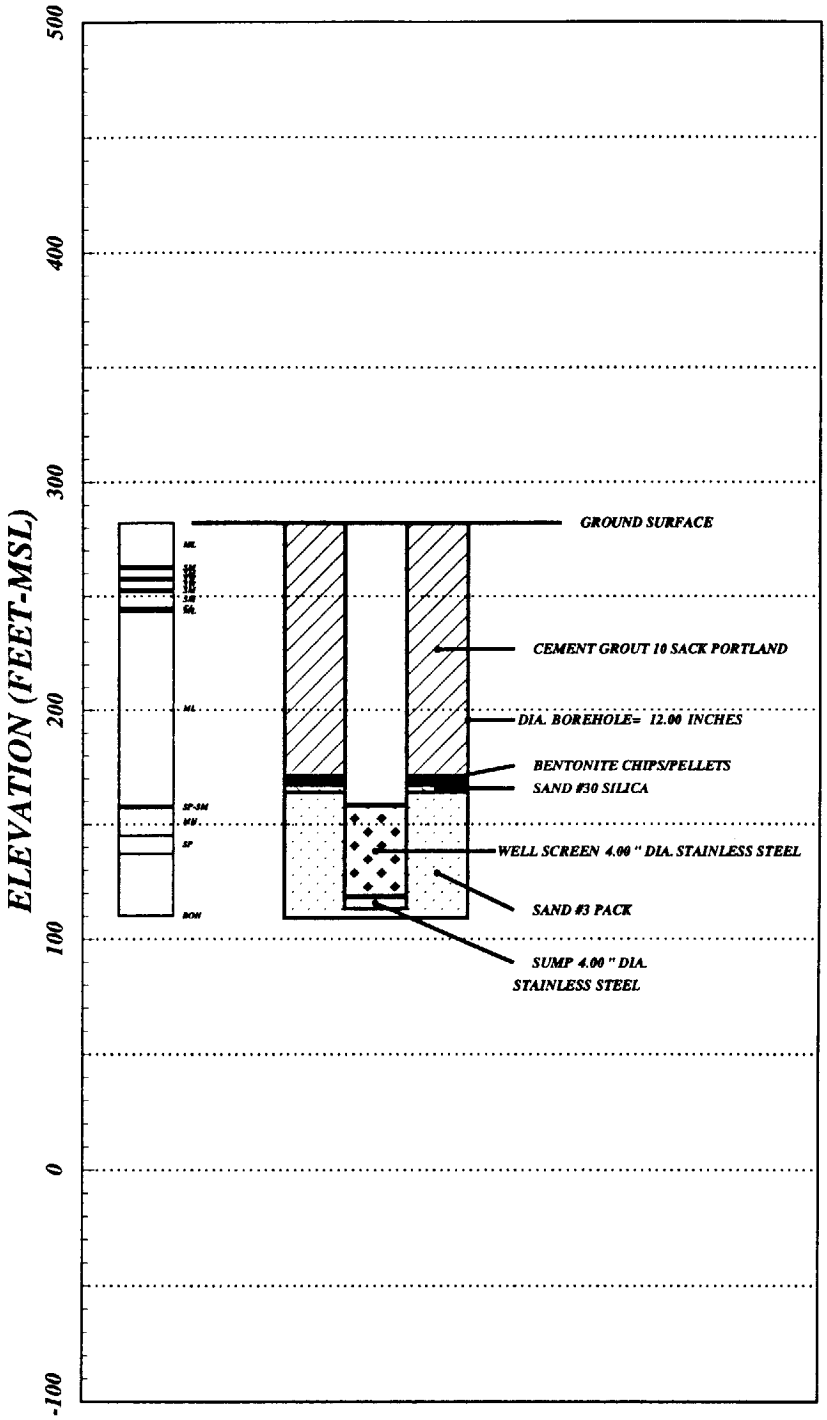



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 250.0 |
| ELEV= | 283.4 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 283.4 |
| 3.0 | CL | 280.4 |
| 5.0 | CL | 278.4 |
| 6.0 | ML | 277.4 |
| 15.0 | ML | 268.4 |
| 16.0 | SP | 267.4 |
| 24.0 | SP | 259.4 |
| 25.0 | SW | 258.4 |
| 29.0 | SW | 254.4 |
| 30.0 | GW | 253.4 |
| 32.0 | GW | 251.4 |
| 33.0 | CL | 250.4 |
| 38.0 | CL | 245.4 |
| 39.0 | SP | 244.4 |
| 40.0 | SP | 243.4 |
| 41.0 | CL | 242.4 |
| 90.0 | CL | 193.4 |
| 91.0 | SM | 192.4 |
| 109.0 | SM | 174.4 |
| 110.0 | SW | 173.4 |
| 114.0 | SW | 169.4 |
| 115.0 | CL | 168.4 |
| 136.0 | CL | 147.4 |
| 137.0 | SW | 146.4 |
| 148.0 | SW | 135.4 |
| 149.0 | SM | 134.4 |
| 172.0 | SM | 111.4 |
| 173.0 | SW-SM | 110.4 |
| 179.0 | SW-SM | 104.4 |
| 180.0 | ML | 103.4 |
| 191.0 | ML | 92.4 |
| 192.0 | CL | 91.4 |
| 203.0 | CL | 80.4 |
| 204.0 | SW | 79.4 |
| 210.0 | SW | 73.4 |
| 211.0 | SM | 72.4 |
| 212.0 | SP | 71.4 |
| 225.0 | SW | 58.4 |
| 240.0 | SW-SM | 43.4 |
| 245.0 | SW | 38.4 |
| 248.0 | SM | 35.4 |
| 250.0 | BOH | 33.4 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW3E WELLID 3E

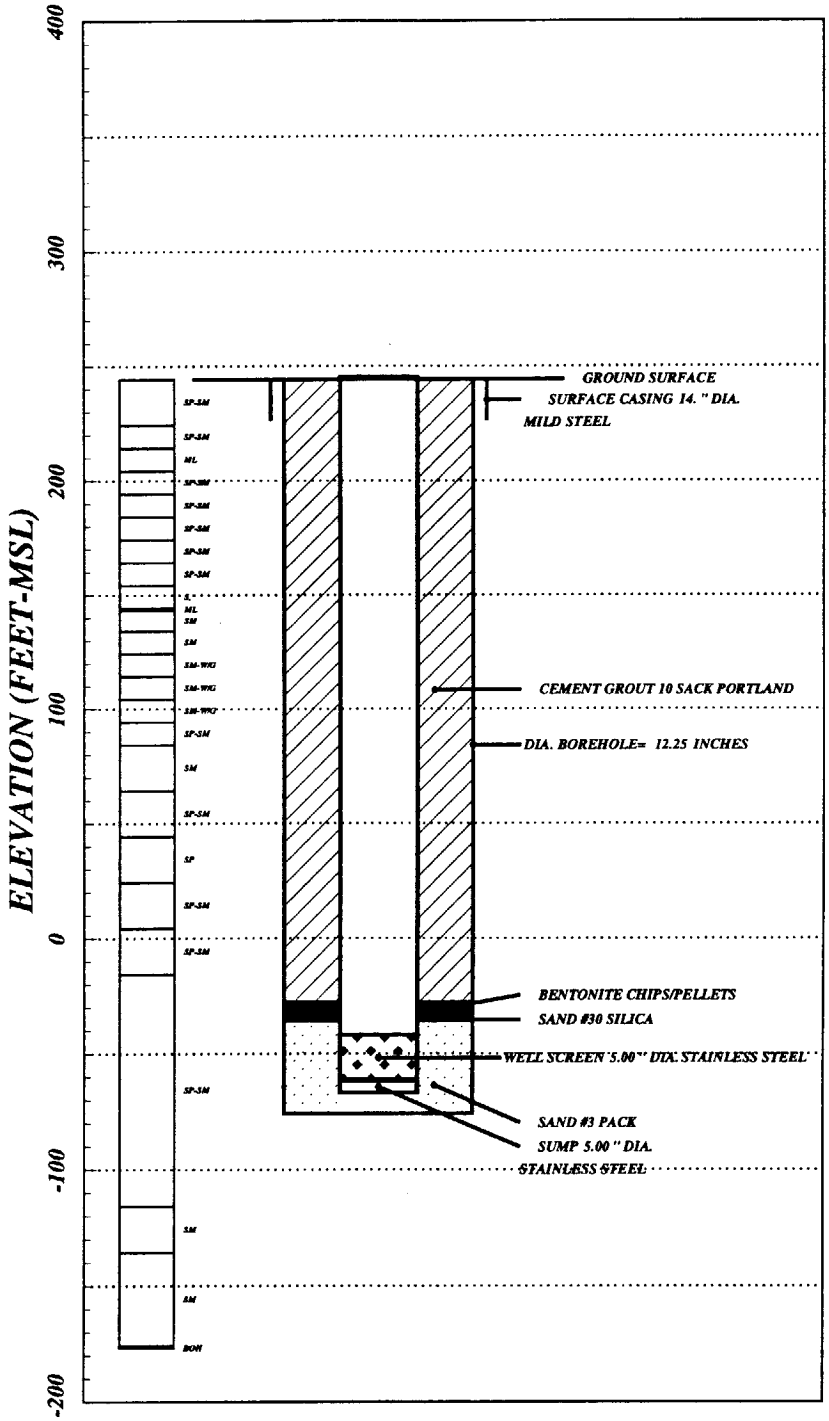



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 172.0 |
| ELEV= | 282.1 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 282.1 |
| 19.0 | ML | 263.1 |
| 20.0 | SM | 262.1 |
| 24.0 | SM | 258.1 |
| 25.0 | SW | 257.1 |
| 29.0 | SW | 253.1 |
| 30.0 | SM | 252.1 |
| 37.0 | SM | 245.1 |
| 38.0 | CL | 244.1 |
| 39.0 | ML | 243.1 |
| 124.0 | ML | 158.1 |
| 125.0 | SP-SM | 157.1 |
| 137.0 | MH | 145.1 |
| 145.0 | SP | 137.1 |
| 172.0 | BOH | 110.1 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW4A WELLID 4A

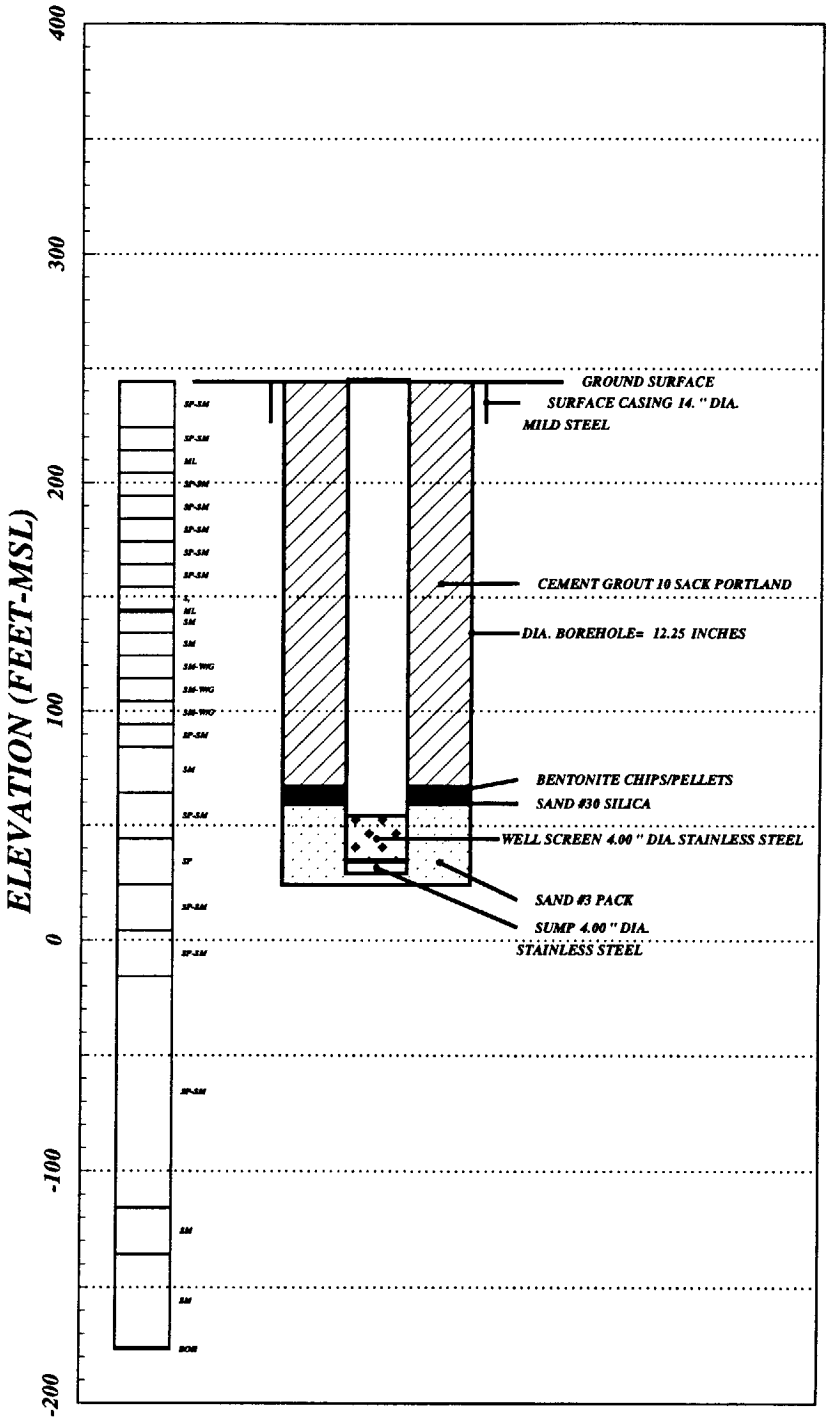



| | |
|---|---|
| ELOG DATA | AVAILABLE |
| DEPTH= | 421.0 |
| ELEV= | 244.2 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 244.2 |
| 20.0 | SP-SM | 224.2 |
| 30.0 | SP-SM | 214.2 |
| 40.0 | ML | 204.2 |
| 50.0 | SP-SM | 194.2 |
| 60.0 | SP-SM | 184.2 |
| 70.0 | SP-SM | 174.2 |
| 80.0 | SP-SM | 164.2 |
| 90.0 | SP-SM | 154.2 |
| 100.0 | S. | 144.2 |
| 101.0 | ML | 143.2 |
| 110.0 | SM | 134.2 |
| 120.0 | SM | 124.2 |
| 130.0 | SM-W/G | 114.2 |
| 140.0 | SM-W/G | 104.2 |
| 150.0 | SM-W/G | 94.2 |
| 160.0 | SP-SM | 84.2 |
| 180.0 | SM | 64.2 |
| 200.0 | SP-SM | 44.2 |
| 220.0 | SP | 24.2 |
| 240.0 | SP-SM | 4.2 |
| 260.0 | SP-SM | -15.8 |
| 360.0 | SP-SM | -115.8 |
| 380.0 | SM | -135.8 |
| 420.0 | SM | -175.8 |
| 421.0 | BOH | -176.8 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW4B WELLID 4B

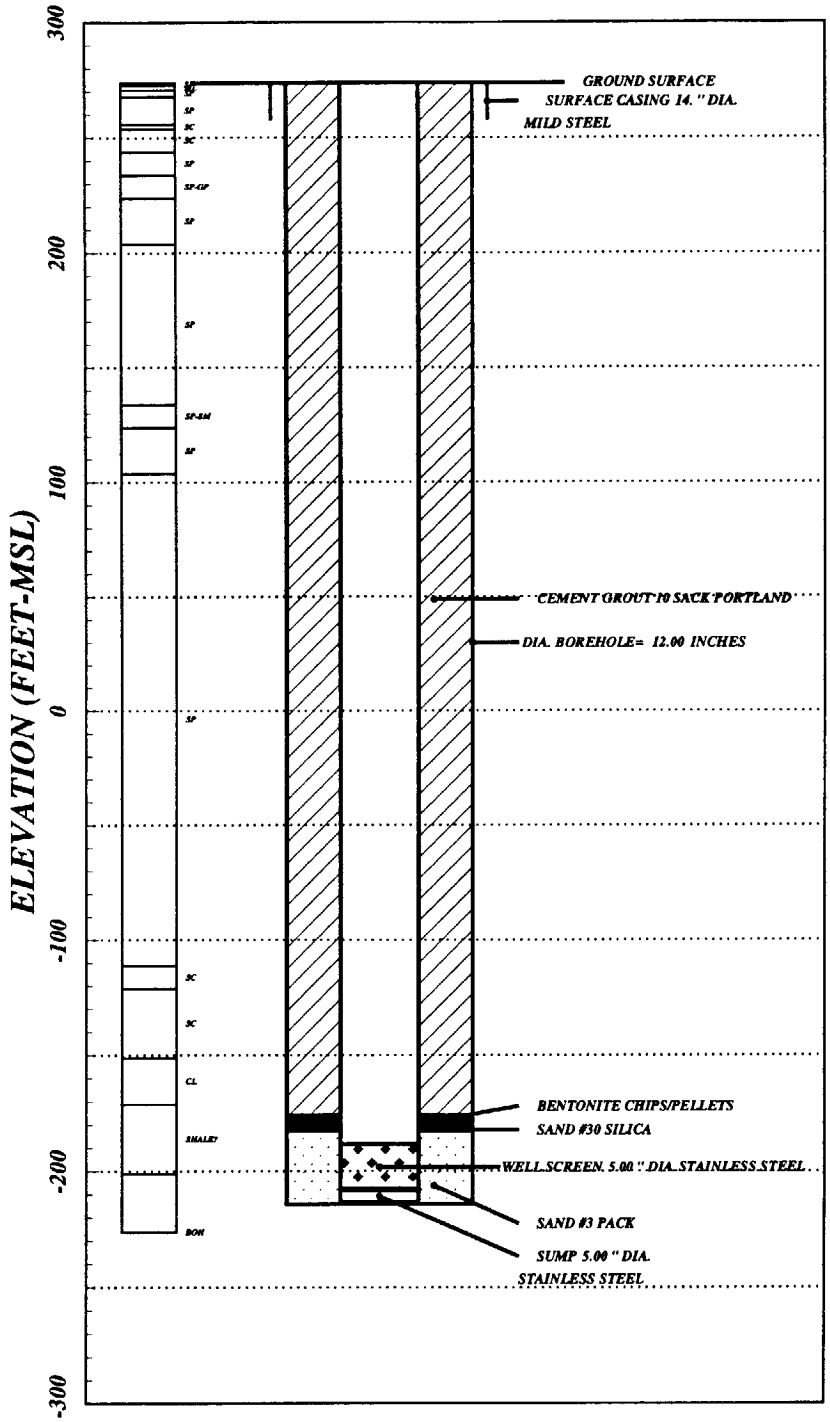



| | |
|---|---|
| ELOG DATA | AVAILABLE |
| DEPTH= | 421.0 |
| ELEV= | 244.2 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 244.2 |
| 20.0 | SP-SM | 224.2 |
| 30.0 | SP-SM | 214.2 |
| 40.0 | ML | 204.2 |
| 50.0 | SP-SM | 194.2 |
| 60.0 | SP-SM | 184.2 |
| 70.0 | SP-SM | 174.2 |
| 80.0 | SP-SM | 164.2 |
| 90.0 | SP-SM | 154.2 |
| 100.0 | S, | 144.2 |
| 101.0 | ML | 143.2 |
| 110.0 | SM | 134.2 |
| 120.0 | SM | 124.2 |
| 130.0 | SM-W/G | 114.2 |
| 140.0 | SM-W/G | 104.2 |
| 150.0 | SM-W/G | 94.2 |
| 160.0 | SP-SM | 84.2 |
| 180.0 | SM | 64.2 |
| 200.0 | SP-SM | 44.2 |
| 220.0 | SP | 24.2 |
| 240.0 | SP-SM | 4.2 |
| 260.0 | SP-SM | -15.8 |
| 360.0 | SP-SM | -115.8 |
| 380.0 | SM | -135.8 |
| 420.0 | SM | -175.8 |
| 421.0 | BOH | -176.8 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW5A WELLID 5A

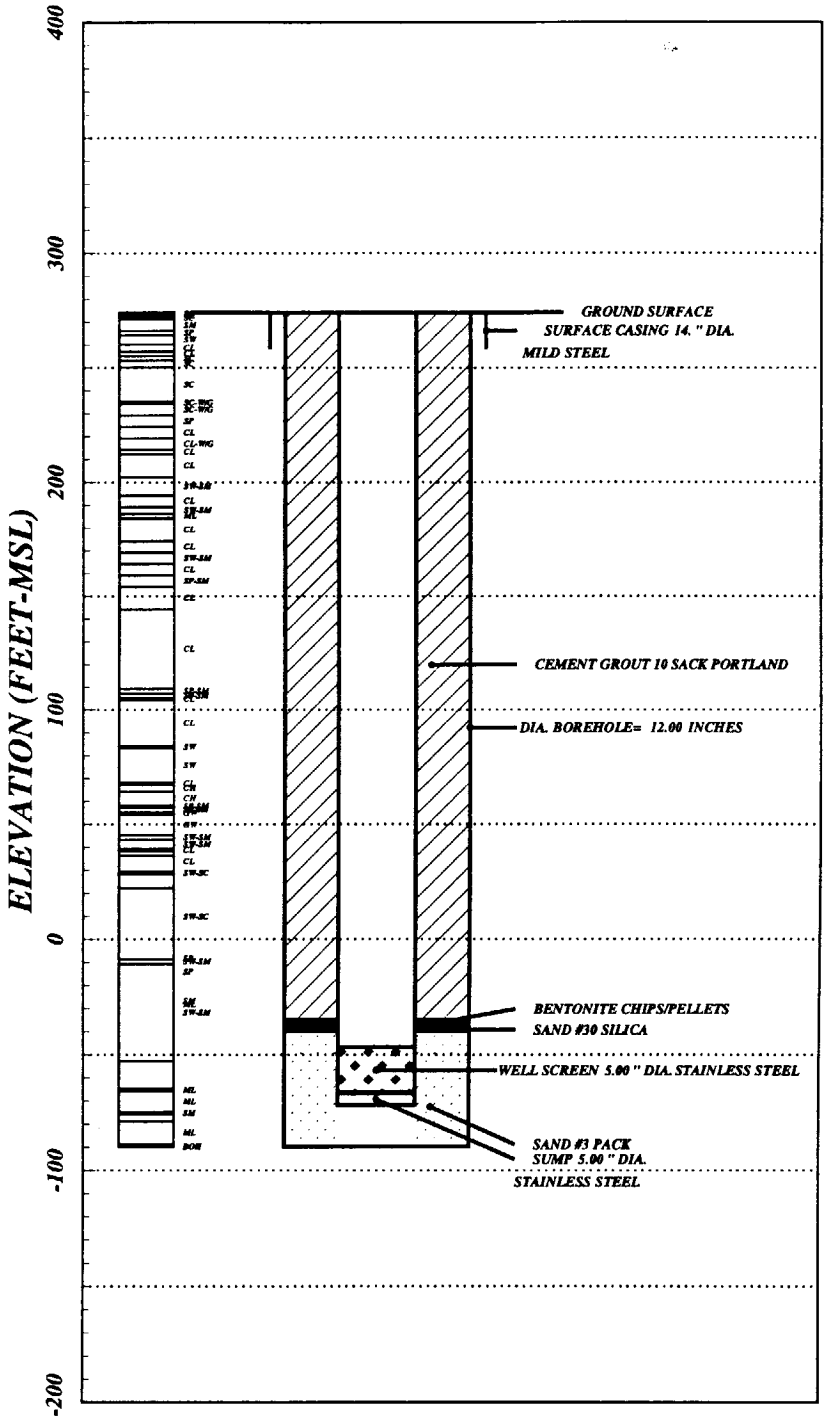



| | |
|---|---|
| ELOG DATA | AVAILABLE |
| DEPTH= | 500.0 |
| ELEV= | 273.7 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 273.7 |
| 1.0 | SP | 272.7 |
| 3.0 | ML | 270.7 |
| 6.0 | SP | 267.7 |
| 18.0 | SP | 255.7 |
| 20.0 | SC | 253.7 |
| 30.0 | SC | 243.7 |
| 40.0 | SP | 233.7 |
| 50.0 | SP-GP | 223.7 |
| 70.0 | SP | 203.7 |
| 140.0 | SP | 133.7 |
| 150.0 | SP-SM | 123.7 |
| 170.0 | SP | 103.7 |
| 385.0 | SP | -111.3 |
| 395.0 | SC | -121.3 |
| 425.0 | SC | -151.3 |
| 445.0 | CL | -171.3 |
| 475.0 | SHALE? | -201.3 |
| 500.0 | BOH | -226.3 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW5B WELLID 5B

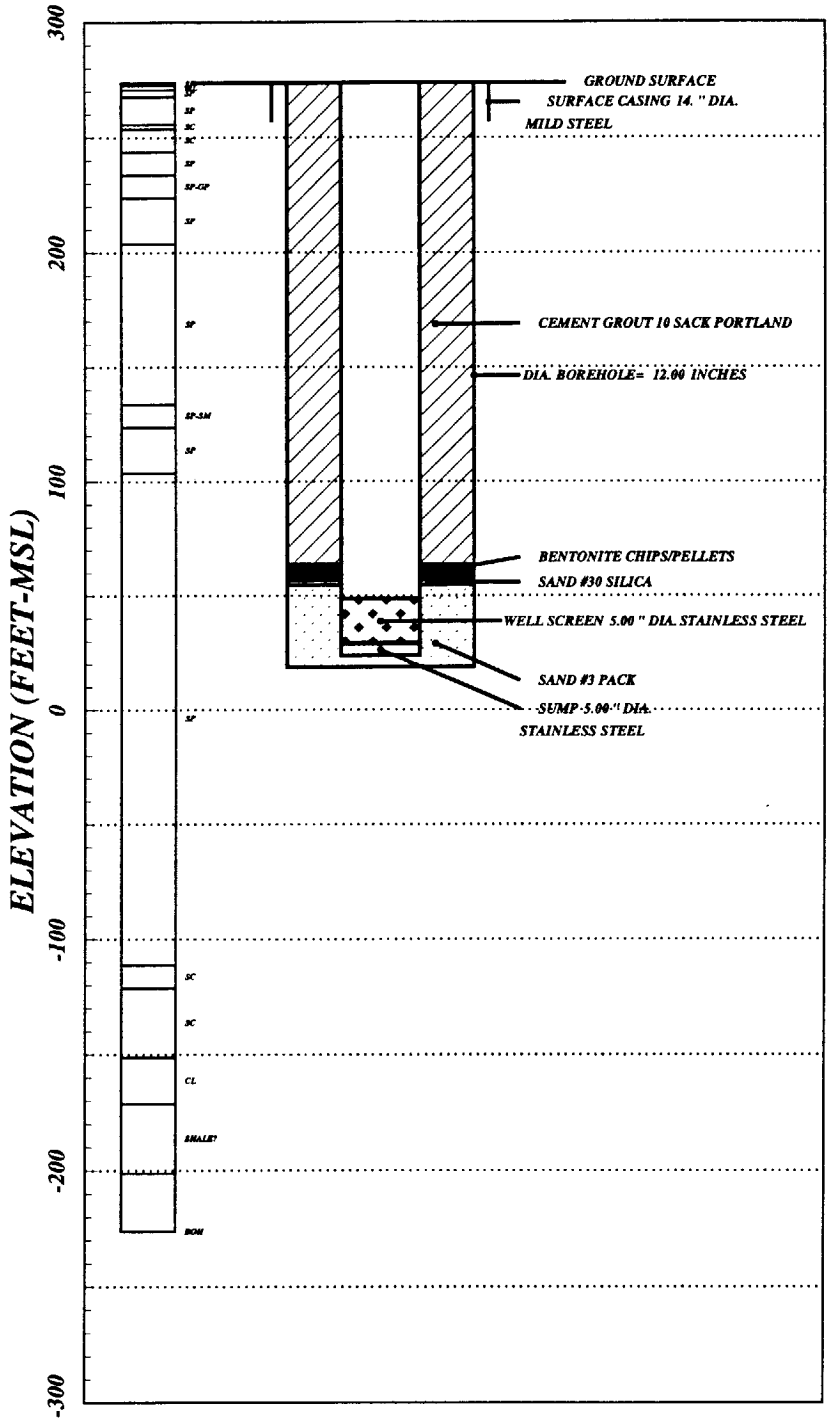



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 364.0 |
| ELEV= | 274.2 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 274.2 |
| 1.0 | SC | 273.2 |
| 2.0 | CL | 272.2 |
| 3.0 | SC | 271.2 |
| 8.0 | SM | 266.2 |
| 10.0 | SP | 264.2 |
| 14.0 | SW | 260.2 |
| 17.0 | CL | 257.2 |
| 19.0 | CL | 255.2 |
| 21.0 | SC | 253.2 |
| 24.0 | SC | 250.2 |
| 39.0 | SC | 235.2 |
| 40.0 | SC-W/G | 234.2 |
| 45.0 | SC-W/G | 229.2 |
| 50.0 | SP | 224.2 |
| 55.0 | CL | 219.2 |
| 60.0 | CL-W/G | 214.2 |
| 62.0 | CL | 212.2 |
| 72.0 | CL | 202.2 |
| 80.0 | SW-SM | 194.2 |
| 85.0 | CL | 189.2 |
| 88.0 | SW-SM | 186.2 |
| 90.0 | ML | 184.2 |
| 100.0 | CL | 174.2 |
| 105.0 | CL | 169.2 |
| 110.0 | SW-SM | 164.2 |
| 115.0 | CL | 159.2 |
| 120.0 | SP-SM | 154.2 |
| 130.0 | CL | 144.2 |
| 165.0 | CL | 109.2 |
| 167.0 | SP-SM | 107.2 |
| 169.0 | SP-SM | 105.2 |
| 170.0 | CL | 104.2 |
| 190.0 | CL | 84.2 |
| 191.0 | SW | 83.2 |
| 206.0 | SW | 68.2 |
| 207.0 | CL | 67.2 |
| 210.0 | CH | 64.2 |
| 216.0 | CH | 58.2 |
| 217.0 | SP-SM | 57.2 |
| 219.0 | SP-SM | 55.2 |
| 220.0 | GW | 54.2 |
| 229.0 | GW | 45.2 |
| 231.0 | SW-SM | 43.2 |
| 235.0 | SW-SM | 39.2 |
| 236.0 | CL | 38.2 |
| 245.0 | CL | 29.2 |
| 246.0 | SW-SC | 28.2 |
| 283.0 | SW-SC | -8.8 |
| 285.0 | SW-SM | -10.8 |
| 327.0 | SW-SM | -52.8 |
| 238.0 | SP | 36.2 |
| 339.0 | SP | -64.8 |
| 340.0 | ML | -65.8 |
| 349.0 | ML | -74.8 |
| 350.0 | SM | -75.8 |
| 252.0 | SM | 22.2 |
| 353.0 | ML | -78.8 |
| 363.0 | ML | -88.8 |
| 364.0 | BOH | -89.8 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW5C WELLID 5C

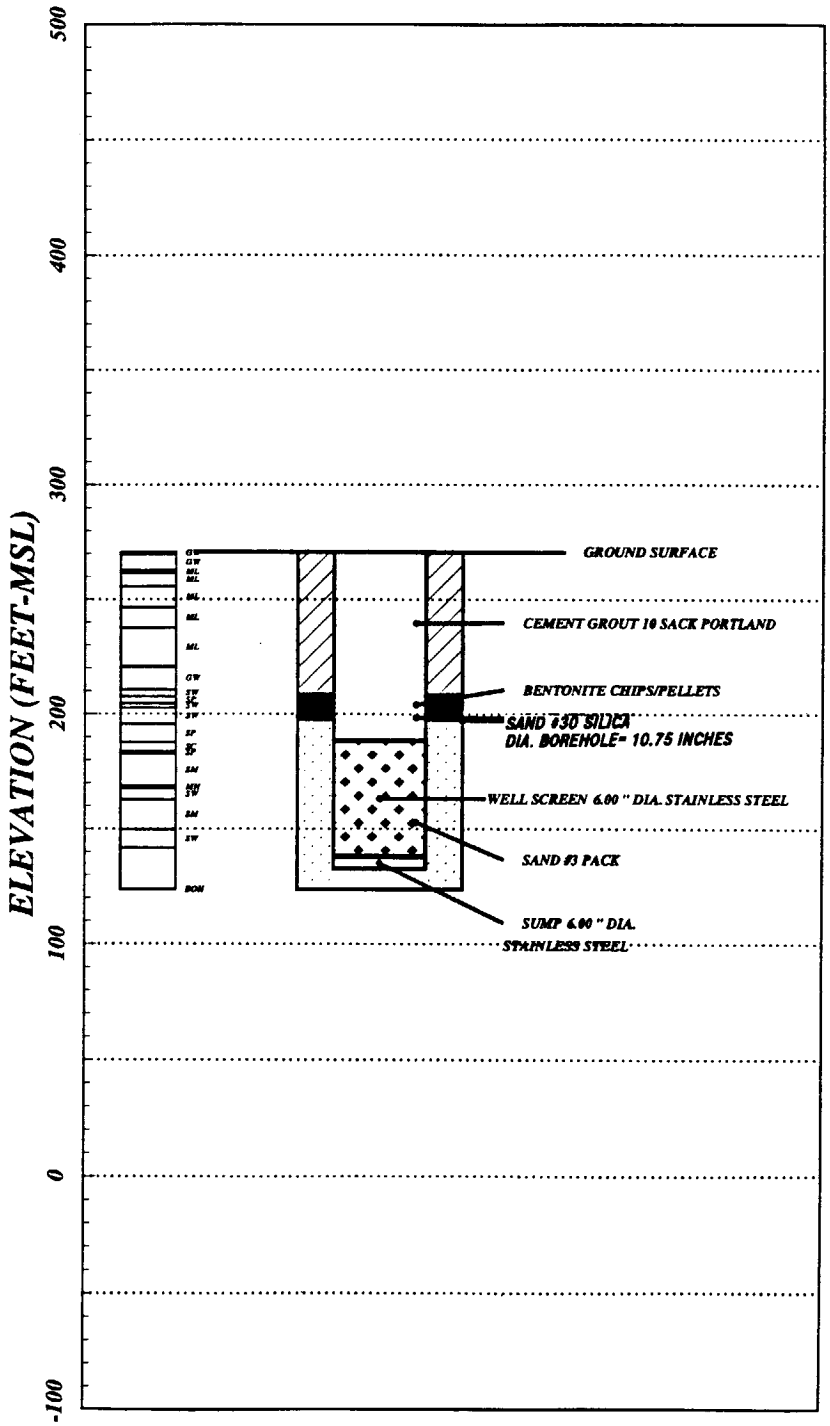



| | |
|---|---|
| ELOG DATA | AVAILABLE |
| DEPTH= | 500.0 |
| ELEV= | 273.7 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 273.7 |
| 1.0 | SP | 272.7 |
| 3.0 | ML | 270.7 |
| 6.0 | SP | 267.7 |
| 18.0 | SP | 255.7 |
| 20.0 | SC | 253.7 |
| 30.0 | SC | 243.7 |
| 40.0 | SP | 233.7 |
| 50.0 | SP-GP | 223.7 |
| 70.0 | SP | 203.7 |
| 140.0 | SP | 133.7 |
| 150.0 | SP-SM | 123.7 |
| 170.0 | SP | 103.7 |
| 385.0 | SP | -111.3 |
| 395.0 | SC | -121.3 |
| 425.0 | SC | -151.3 |
| 445.0 | CL | -171.3 |
| 475.0 | SHALE? | -201.3 |
| 500.0 | BOH | -226.3 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW5D WELLID 5D

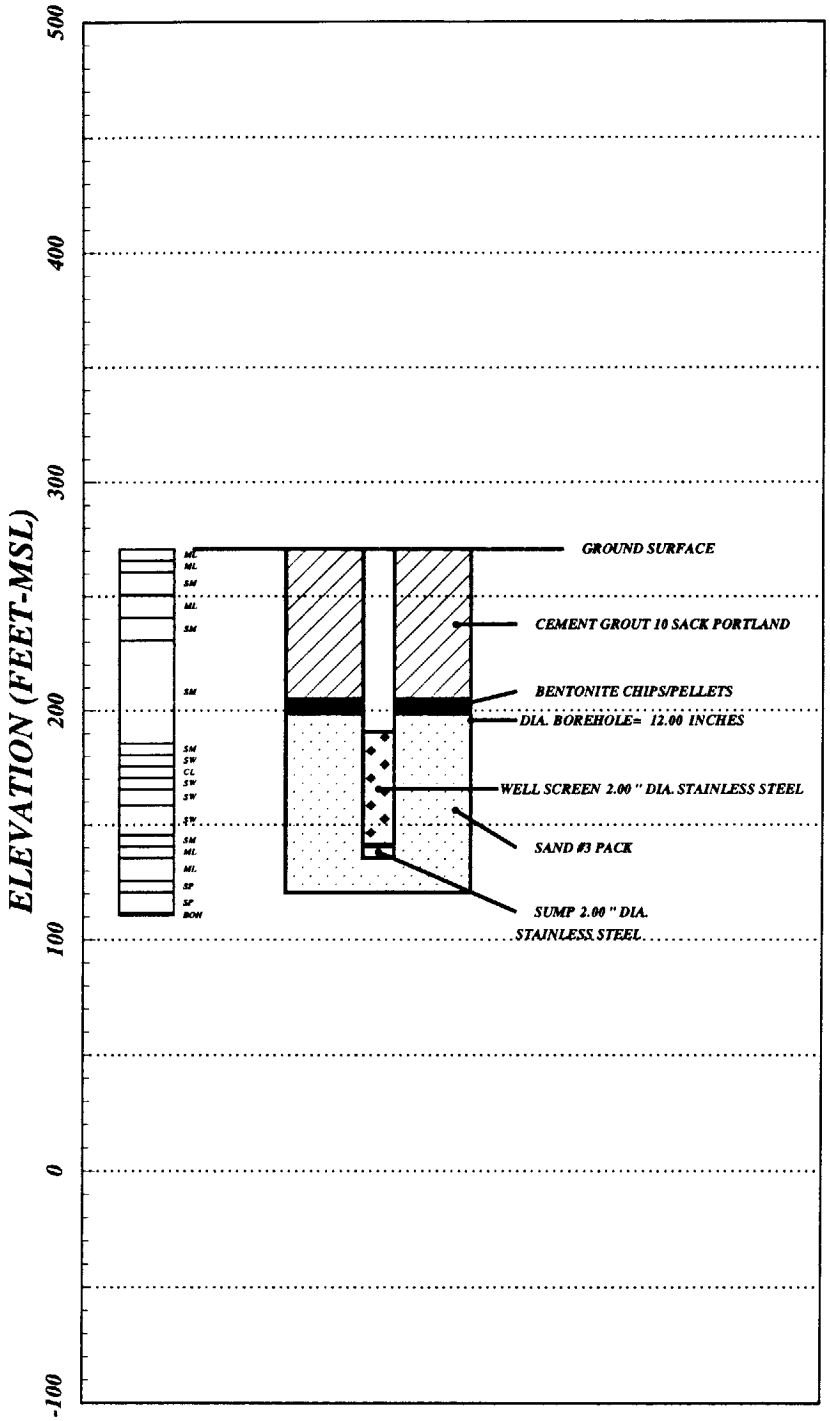



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 147.0 |
| ELEV= | 278.6 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 278.6 |
| 1.0 | GW | 269.6 |
| 8.0 | GW | 262.6 |
| 9.0 | ML | 261.6 |
| 15.0 | ML | 255.6 |
| 24.0 | ML | 246.6 |
| 33.0 | ML | 237.6 |
| 50.0 | ML | 220.6 |
| 60.0 | GW | 210.6 |
| 63.0 | SW | 207.6 |
| 66.0 | SP | 204.6 |
| 68.0 | SW | 202.6 |
| 75.0 | SW | 195.6 |
| 83.0 | SP | 187.6 |
| 87.0 | SC | 183.6 |
| 88.0 | SP | 182.6 |
| 102.0 | SM | 168.6 |
| 103.0 | MH | 167.6 |
| 108.0 | SW | 162.6 |
| 121.0 | SM | 149.6 |
| 129.0 | SW | 141.6 |
| 147.0 | BOH | 123.6 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW5E WELLID 5E

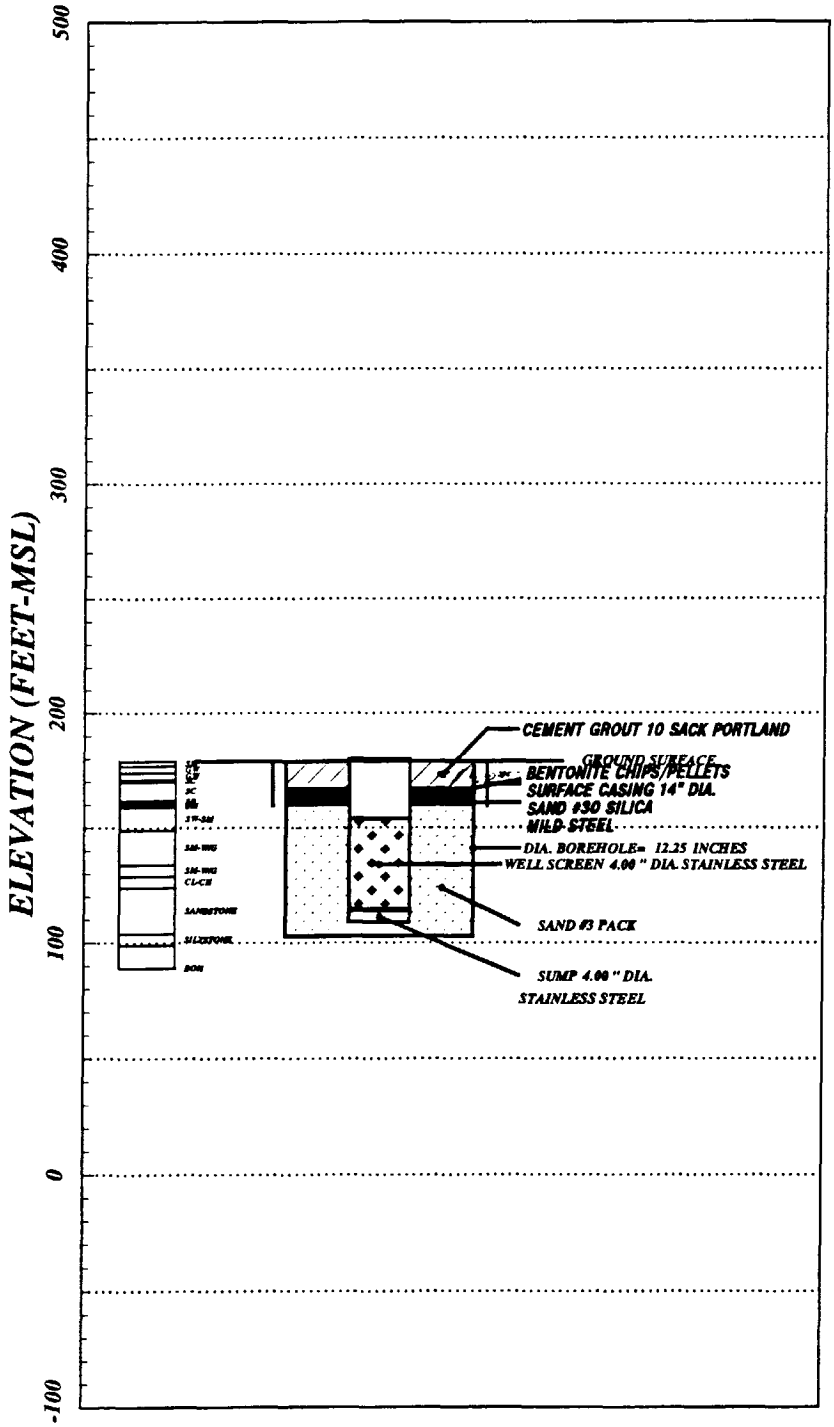



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 160.0 |
| ELEV= | 270.6 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 270.6 |
| 5.0 | ML | 265.6 |
| 10.0 | ML | 260.6 |
| 20.0 | SM | 250.6 |
| 30.0 | ML | 240.6 |
| 40.0 | SM | 230.6 |
| 85.0 | SM | 185.6 |
| 90.0 | SM | 180.6 |
| 95.0 | SW | 175.6 |
| 100.0 | CL | 170.6 |
| 105.0 | SW | 165.6 |
| 112.0 | SW | 158.6 |
| 125.0 | SW | 145.6 |
| 130.0 | SM | 140.6 |
| 135.0 | ML | 135.6 |
| 145.0 | ML | 125.6 |
| 150.0 | SP | 120.6 |
| 159.0 | SP | 111.6 |
| 160.0 | BOH | 110.6 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW7 WELLID 7

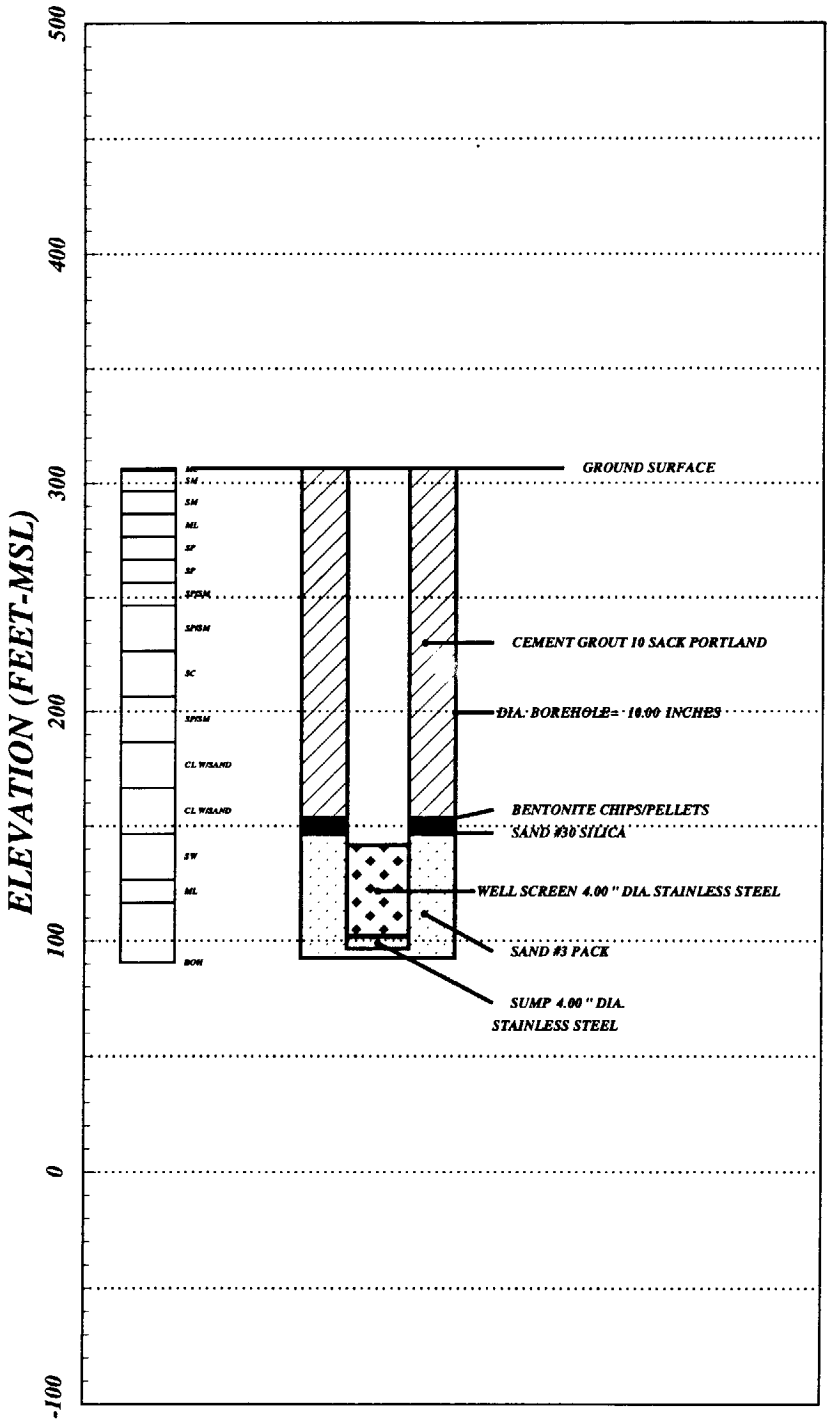



| ELOG DATA | AVAILABLE |
|---|---|
| DEPTH= | 90.0 |
| ELEV= | 178.9 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 178.9 |
| 2.0 | SM | 176.9 |
| 5.0 | GW | 173.9 |
| 8.0 | GW | 170.9 |
| 9.0 | SC | 169.9 |
| 17.0 | SC | 161.9 |
| 18.0 | SP | 160.9 |
| 19.0 | SP | 159.9 |
| 20.0 | SM | 158.9 |
| 30.0 | SW-SM | 148.9 |
| 45.0 | SM-WG | 133.9 |
| 50.0 | SM-WG | 128.9 |
| 55.0 | CL-CH | 123.9 |
| 75.0 | SANDSTONE | 103.9 |
| 80.0 | SILTSTONE | 98.9 |
| 90.0 | BOH | 88.9 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW12 WELLID 12

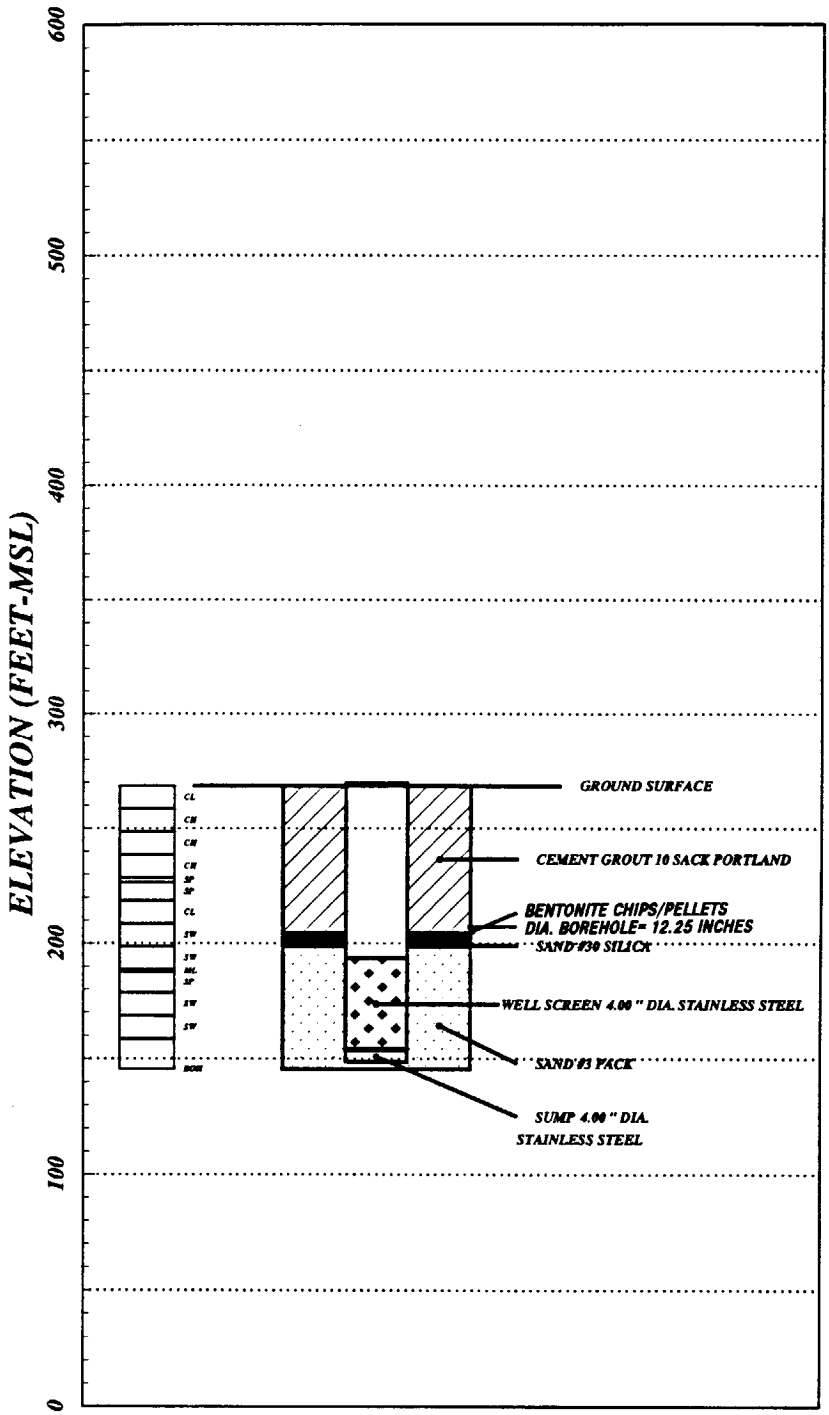



| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 216.0 |
| ELEV= | 306.5 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 306.5 |
| 1.0 | MC | 305.5 |
| 10.0 | SM | 296.5 |
| 20.0 | SM | 286.5 |
| 30.0 | ML | 276.5 |
| 40.0 | SP | 266.5 |
| 50.0 | SP | 256.5 |
| 60.0 | SP/SM | 246.5 |
| 80.0 | SP/SM | 226.5 |
| 100.0 | SC | 206.5 |
| 120.0 | SP/SM | 186.5 |
| 140.0 | CL W/SAND | 166.5 |
| 160.0 | CL W/SAND | 146.5 |
| 180.0 | SW | 126.5 |
| 190.0 | ML | 116.5 |
| 216.0 | BOH | 90.5 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW14 WELLID 14

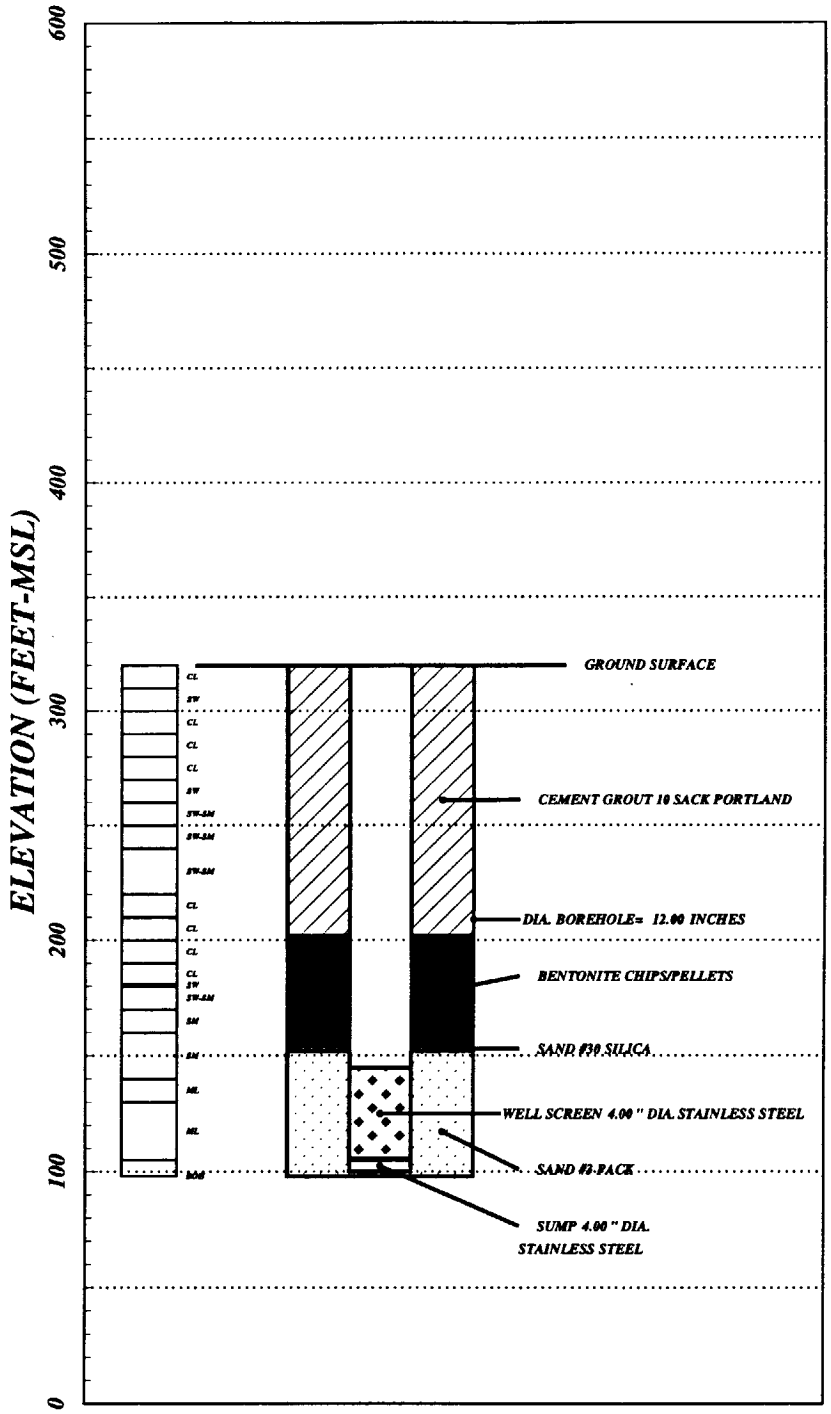



ELOG DATA NOT AVAILABLE
DEPTH= 123.0
ELEV= 268.5

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 268.5 |
| 10.0 | CL | 258.5 |
| 20.0 | CH | 248.5 |
| 30.0 | CH | 238.5 |
| 40.0 | CH | 228.5 |
| 42.0 | SP | 226.5 |
| 50.0 | SP | 218.5 |
| 60.0 | CL | 208.5 |
| 70.0 | SW | 198.5 |
| 80.0 | SW | 188.5 |
| 81.0 | ML | 187.5 |
| 90.0 | SP | 178.5 |
| 100.0 | SW | 168.5 |
| 110.0 | SW | 158.5 |
| 123.0 | BOH | 145.5 |

# MCAS EL TORO RI/FS - LITHOLOGIC LOG

## 18_BGMW15 WELLID 15




| | |
|---|---|
| ELOG DATA | NOT AVAILABLE |
| DEPTH= | 222.0 |
| ELEV= | 319.9 |

| DEPTH | LITH. DESC. | ELEVATION |
|---|---|---|
| 0.0 | | 319.9 |
| 10.0 | CL | 309.9 |
| 20.0 | SW | 299.9 |
| 30.0 | CL | 289.9 |
| 40.0 | CL | 279.9 |
| 50.0 | CL | 269.9 |
| 60.0 | SW | 259.9 |
| 70.0 | SW-SM | 249.9 |
| 80.0 | SW-SM | 239.9 |
| 100.0 | SW-SM | 219.9 |
| 110.0 | CL | 209.9 |
| 120.0 | CL | 199.9 |
| 130.0 | CL | 189.9 |
| 139.0 | CL | 180.9 |
| 140.0 | SW | 179.9 |
| 150.0 | SW-SM | 169.9 |
| 160.0 | SM | 159.9 |
| 180.0 | SM | 139.9 |
| 190.0 | ML | 129.9 |
| 215.0 | ML | 104.9 |
| 222.0 | BOH | 97.9 |