**Table 18-2. Baseline Water Quality Data**
**Collected by MIS.**

| | | | | LPA | LPA | LPA | LPA | LPA | LS | LS | LS | LS | LS | OBCH | OBCH | OBCH | OBCH | OBCH | OBCH | OE | OE | OE | OE | OE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER / ANALYTE | UNITS | MDL | METHOD | Larue Pit Access | Larue Pit Access | Larue Pit Access | Larue Pit Access | Larue Pit Access | Little Sucker | Little Sucker | Little Sucker | Little Sucker | Little Sucker | O'Brien Creek Head | O'Brien Creek Head | O'Brien Creek Head | O'Brien Creek Head | O'Brien Creek Head | O'Brien Creek Head | Oxhide Extension | Oxhide Extension | Oxhide Extension | Oxhide Extension | Oxhide Extension |
| SAMPLING ROUND | | | | 3 | 5 | 6 | 7 | 8 | 3 | 5 | 6 | 7 | 8 | 3 | 5 | 6 | 7 | 8 | 8 | 2 | 3 | 5 | 6 | 7 |
| SAMPLED DATE | | | | 06/01/99 | 09/13/99 | 11/29/99 | 05/01/00 | 07/18/00 | 06/01/99 | 09/13/99 | 11/29/99 | 05/01/00 | 07/17/00 | 06/01/99 | 09/14/99 | 11/29/99 | 05/01/00 | 07/17/00 | 07/17/00 | 03/15/99 | 06/01/99 | 09/13/99 | 11/29/99 | 05/01/00 |
| TIME (MILITARY) | | | | | | | 930 | 915 | | 1445 | | 1005 | 1535 | | 1530 | | 1156 | | 1447 | 1130 | | | | 1127 |
| EASTING (1927 State Plane Feet) | | | | 1986318 | 1986318 | 1986318 | 1986318 | 1986318 | 1963207 | 1963207 | 1963207 | 1963207 | 1963207 | 1985913 | 1985913 | 1985913 | 1985913 | | 1985913 | 1971955 | 1971955 | 1971955 | 1971955 | 1971955 |
| NORTHING (1927 State Plane Feet) | | | | 323566 | 323566 | 323566 | 323566 | 323566 | 320739 | 320739 | 320739 | 320739 | 320739 | 297552 | 297552 | 297552 | 297552 | | 297552 | 304644 | 304644 | 304644 | 304644 | 304644 |
| ELEVATION (feet, from 1997 mapping) | | | | 1413.1 | 1413.1 | 1413.1 | 1413.1 | 1413.1 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1343 | 1343 | 1343 | 1343 | | 1343 | 1347.5 | 1347.5 | 1347.5 | 1347.5 | 1347.5 |
| AIR TEMP | ° F | | | 47 | 56 | 24 | 55 | | 48 | 56 | 26 | 55 | | 51 | 59 | 24 | 59 | | | | 51 | 56 | 24 | 58 |
| WATER TEMP | ° F | | | 62 | 65 | 40 | | 70 | 58 | 60 | 24 | | 72 | 60 | 57 | 34 | | | 72 | | 61 | 65 | 35 | |
| Conductivity | uhmos/cm | 1 | EPA 120.1 | 282 | 299 | 324 | 351 | 349 | 261 | 239 | 327 | 224 | 223 | 315 | 308 | 293 | 319 | 315 | 280 | 434 | 440 | 384 | 390 | 449 |
| Hardness, Total | mg/L | 1 | EPA 130.2 | 157 | 73.3 | 157 | 164 | 146 | 146 | 65.8 | 141 | 97 | 94 | 141 | 122 | 148 | 144 | 141 | 128 | 204 | 198 | 88.8 | 190 | 195 |
| Color | PCU | 5 | EPA 110.2 | 5 | | | | | 50 | | | | | 30 | | | | 30 | | | 10 | | | |
| pH | SU | 0.1 | EPA 150.1 | 8.04 | 8.44 | 8.11 | 8.28 | 8.65 | 6.97 | 7.29 | 7.58 | 8.02 | 8.75 | 8.11 | 8.24 | 8.17 | 8.12 | 8.11 | 9.24 | 8.05 | 8.16 | 8.05 | 7.73 | 8.19 |
| Alkalinity, Carb | mg/L | 1 | EPA 310.1 | <1.0 | | | | | <1.0 | | | | | <1.0 | | | | <1.0 | | <1.0 | <1.0 | | | |
| Alkalinity, Total | mg/L | 1 | EPA 310.1 | 149 | 140 | | | | 121 | 86 | | | | 129 | 134 | | | 129 | | 182 | 161 | 138 | | |
| Ammonia as N | mg/L | 0.1 | EPA 350.1 | <0.10 | | | | | <0.10 | | | | | <0.10 | | | | <0.10 | | <0.10 | 0.12 | | | |
| Kjeldahl Nitrogen, Total as N | mg/L | 0.1 | EPA 351.1 | 0.1 | <0.1 | 0.4 | 0.66 | 0.36 | 2.7 | 0.4 | 1 | 1.01 | 1.18 | 0.4 | 0.3 | 0.7 | 1.2 | 0.4 | 0.76 | | 0.2 | <0.1 | 0.2 | 1.14 |
| Nitrate+Nitrite as N | mg/L | 0.1 | EPA 353.2 | <0.01 | | | | | <0.01 | | | | | <0.01 | | | | <0.01 | | | <0.01 | | | |
| Nitrate as N | mg/L | 0.1 | (NO3+N02)-NO2 | | | | | | | | | | | | | | | | | <0.10 | | | | |
| Nitrite as N | mg/L | 0.01 | EPA 354.1 | | | | | | | | | | | | | | | | | <0.01 | | | | |
| Nitrogren: N, Total | mg/L | 0.2 | TKN+NO2+NO2 | | | | | | | | | | | | | | | | | | | | | |
| Phosphorus, Total as P | mg/L | 0.01 | EPA 365.2 | 0.01 | 0.01 | <0.1 | <0.1 | <0.01 | 0.06 | 0.03 | <0.1 | <0.1 | 0.01 | 0.02 | 0.03 | <0.1 | 0.01 | 0.02 | <0.01 | <0.01 | 0.01 | 0.01 | <0.1 | 0.01 |
| Bromide | mg/L | 0.1 | EPA 320.1 | | | | | | | | | | | | | | | | | | | | | |
| Calcium | mg/L | 1 | EPA 200.7 | 31.7 | 29.3 | 34.2 | 35.2 | 32.4 | 32.5 | 26.3 | 33.6 | 24.8 | 22.7 | 30.3 | 26.8 | 33.7 | 33.1 | 30.3 | 26.4 | 39.6 | 39.3 | 35.5 | 42.1 | 43.4 |
| Chloride | mg/L | 0.5 | EPA 325.3 | 1.7 | | | | | 1.5 | | | | | 5.2 | | | | 5.2 | | 7.1 | 5.8 | | | |
| Fluoride | mg/L | 0.1 | EPA 340.1 | 0.44 | 0.24 | 0.012 | <0.1 | 0.24 | 0.44 | 0.24 | 0.18 | 0.19 | 0.24 | 0.28 | 0.2 | 0.12 | 0.19 | 0.28 | 0.45 | | 0.2 | 0.24 | 0.14 | 0.19 |
| Iron | mg/L | 0.03 | EPA 236.1 | 0.06 | 0.05 | 0.04 | <0.03 | 0.7 | 0.43 | 0.24 | 0.28 | 0.07 | 0.37 | 0.18 | 0.2 | 0.36 | 0.48 | 0.18 | 0.41 | <0.03 | 0.03 | 6.59 | 0.2 | 0.23 |
| Magnesium | mg/L | 0.5 | EPA 200.7 | 19.0 | 17 | 17.5 | 18.6 | 17 | 15.7 | 11.7 | 13.8 | 8.6 | 8.57 | 15.6 | 13.5 | 15.5 | 14.8 | 15.8 | 14 | 23.4 | 24.3 | 20.1 | 20.6 | 21.1 |
| Manganese | mg/L | 0.01 | EPA 243.1 | 0.01 | <0.01 | 0.04 | <0.01 | 0.01 | 0.26 | 0.05 | 0.09 | 0.04 | 0.06 | 0.09 | 0.06 | 0.09 | 0.19 | 0.09 | 0.11 | 0.26 | 0.03 | 0.02 | 0.06 | 0.07 |
| Potassium | mg/L | 0.5 | EPA 200.7 | 2.7 | 2.5 | | | | 1.4 | 1.5 | | | | 1.7 | 1.8 | | | 1.7 | | 2.6 | 2.4 | 2.3 | | |
| Strontium | mg/L | 4 | EPA 200.7 | 73.2 | 68 | 75 | 78.4 | 72.3 | 79 | 70.1 | 78.7 | 57.4 | 53.8 | 75.7 | 73.1 | 80 | 79.2 | 75.7 | 66 | | 115 | 98.1 | 113 | 119 |
| Sulfide, Total | mg/L | 2 | EPA 376.1 | | | | | | | | | | | | | | | <2 | | | | | | |
| Sulfite | mg/L | 0.025 | EPA 425.1 | <2 | | | | | <2 | | | | | <2 | | | | <0.025 | | | <2 | | | |
| Sulfate | mg/L | 1 | EPA 375.4 | 8.92 | <1 | 8.69 | 8.3 | 6.8 | 23.4 | <1 | 32.8 | 16.6 | 11.7 | 8.92 | 4.19 | 10.7 | 8.3 | 8.92 | 6.3 | 45.6 | 36 | 17.1 | 43.2 | 26.7 |
| Sodium | mg/L | 0.5 | EPA 200.7 | 4.1 | 3.8 | | | | 4.6 | 3.2 | | | | 5.9 | 5 | | | 5.9 | | 8.1 | 7.7 | 6.6 | | |
| Aluminum | µg/L | 10 | EPA 202.2 | 0.05 | 34.6 | 18.5 | 22 | 42.8 | 0.02 | 26.4 | <10 | 13.9 | 57.4 | 0.04 | 100 | 48.8 | 319 | 0.04 | 152 | | 0.01 | 27.3 | 12.4 | <10 |
| Antimony | ug/L | 3 | EPA 204.2 | <3.0 | | | | | <3.0 | | | | | <3.0 | | | | | | | <3.0 | | | |
| Arsenic | µg/L | 2 | EPA 206.2 | <2.0 | <2 | <2 | <2 | <2 | <2.0 | <2 | <2 | <2 | <2 | <2.0 | <2 | <2 | <2 | <2 | <2 | | <2.0 | <2 | <2 | <2 |
| Barium | µg/L | 10 | EPA 200.7 | 0.01 | | | | | 0.03 | | | | | 0.02 | | | | 0.02 | | | 0.02 | | | |
| Beryllium | µg/L | 0.2 | EPA 210.2 | <0.2 | | | | | <0.2 | | | | | <0.2 | | | | <0.2 | | | <0.2 | | | |
| Boron | µg/L | 35 | EPA 200.7 | <35 | | | | | 44 | | | | | 41 | | | | 41 | | | 52 | | | |
| Cadmium | µg/L | 0.2 | EPA 213.2 | <0.2 | | | | | <0.2 | | | | | <0.2 | | | | <0.2 | | | <0.2 | | | |
| Chromium | µg/L | 4 | EPA 218.2 | | | | | | | | | | | | | | | | | | | | | |
| Cobalt | µg/L | 1 | EPA 219.2 | <1.0 | | | | | <1.0 | | | | | <1.0 | | | | <1.0 | | | <1.0 | | | |
| Copper | µg/L | 1 | EPA 220.2 | <1.0 | | | | | <1.0 | | | | | <1.0 | | | | <1.0 | | | <1.0 | | | |
| Lead | µg/L | 1 | EPA 239.2 | <1.0 | | | | | <1.0 | | | | | <1.0 | | | | <1.0 | | | <1.0 | | | |
| Lithium | µg/L | 1 | EPA 200.7 | 5.2 | | | | | 3.8 | | | | | 3.8 | | | | 3.8 | | | 9.3 | | | |
| Mercury--NTS | µg/L | 0.2 | EPA 245.1 | <0.1 | | | | | <0.1 | | | | | <0.1 | | | | <0.1 | | | <0.1 | | | |
| Molybdenum | µg/L | 5 | EPA 246.2 | <5.0 | <5 | <5 | <5 | <5 | <5.0 | <5 | <5 | <5 | <5 | <5.0 | <5 | <5 | <5 | <5 | <5 | <5.0 | <5.0 | <5 | <5 | <5 |
| Nickel | µg/L | 2 | EPA 249.2 | <2.0 | | | | | <2.0 | | | | | <2.0 | | | | <2.0 | | | <2.0 | | | |
| Selenium | µg/L | 3 | EPA 270.2 | <3.0 | | | | | <3.0 | | | | | <3.0 | | | | <3.0 | | | <3.0 | | | |
| Silica | µg/L | 1 | EPA 200.7 | 5480 | 6220 | | | | 1620 | 8410 | | | | 1300 | 5170 | | | 1300 | | 2380 | 5430 | 5690 | | |
| Silver | µg/L | 1 | EPA 200.7 | | | | | | | | | | | | | | | | | | | | | |
| Thallium | µg/L | 4 | EPA 279.2 | <4.0 | <4 | <4 | <2 | <2 | <4.0 | <4 | <4 | <2 | <2 | <4.0 | <4 | <4 | <2 | <2 | <2 | | <4.0 | <4 | <4 | <2 |
| Tin | µg/L | 10 | EPA 282.2 | <10.0 | | | | | <10.0 | | | | | <10.0 | | | | <10.0 | | | <10.0 | | | |
| Titanium | µg/L | 10 | EPA 283.2 | <10.0 | | | | | <10 | | | | | <10.0 | | | | | | | <10.0 | | | |
| Vanadium | µg/L | 4 | EPA 200.7 | <4.0 | | | | | <4.0 | | | | | <4.0 | | | | <10 | | | <4.0 | | | |
| Zinc | µg/L | 10 | EPA 200.7 | 10 | | | | | <10 | | | | | <10.0 | | | | <0.06 | | | 12 | | | |
| BOD | mg/L | 1 | Std Meth 5210 | <2 | | | | | <2 | | | | | <2 | | | | <2 | | | <2 | | | |
| Chemical Oxygen Demand | mg/L | 1 | HACH 8000 | 5.6 | <1 | 3.7 | 15 | 3.7 | 28.9 | 22.2 | 38.4 | 35.3 | 18.7 | 11.3 | 11.3 | 22.2 | 18.7 | 11.3 | 18.7 | | 3.7 | <1 | 7.5 | 18.7 |
| Organic Carbon, Total | mg/L | 1 | EPA 415.1 | 3.0 | 2.9 | 2.2 | 5.2 | 2.3 | 11.4 | 14.6 | 11.7 | 11.2 | 8.2 | 8.5 | 7.2 | 7.2 | 8.2 | 8.5 | 6.6 | | 3 | 3.4 | 2.5 | 4.5 |
| Oil and Grease | mg/L | 1 | EPA 413.1 | <0.5 | | | | | <0.5 | | | | | <0.5 | | | | <0.5 | | <0.5 | <0.5 | | | |
| Solids, Total Suspended | mg/L | 1.0 | EPA 160.2 | 4.0 | | | | | 4.0 | | | | | 3.0 | | | | 3.0 | | <1.0 | 5.0 | | | |
| Solids, Total Dissolved | mg/L | 1 | EPA 160.1 | 120 | 144 | 128 | 143 | 155 | 128 | 180 | 146 | 98 | 116.0 | 142.0 | 166 | 128 | 144 | 142 | 154 | 219 | 171.0 | 122 | 184 | 209 |
| Corrosivity Index (Langlier) | | | Std Meth | | | | | | | | | | | | | | | | | -0.13 | | | | |
| DRO-WATER | mg/L | 0.1 | WI Modified DRO | <0.10 | <0.06 | <01 | <0.1 | <0.1 | <0.10 | <0.06 | <0.1 | <0.1 | <0.1 | <0.10 | <0.06 | <0.1 | <0.1 | <0.1 | <0.1 | | | <0.06 | <0.1 | <0.1 |
| GRO-WATER | mg/L | 0.1 | WI Modified GRO | <0.06 | <0.10 | <0.1 | <0.06 | <0.06 | <0.06 | <0.10 | <0.1 | <0.06 | <0.06 | <0.06 | <0.10 | <0.1 | <0.06 | <0.06 | <0.06 | | <0.06 | <0.10 | <0.1 | <0.06 |
| Surfactants | mg/L | 0.025 | EPA 425.1 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 1 | <0.025 | <0.025 | <0.025 | <0.025 |
| Fecal Coliform | colonies | 1 | Std Meth 9222 | | | | | | | | | | | | | | | | | | | | | |
| Residual Chlorine | mg/L | | Std Meth 4500-Cl | | | | | | | | | | | | | | | | | | | | | |
| Free Chlorine | | | HACH | | | | | | | | | | | | | | | | | <0.2 | | | | |
| Chlorine (field) | | | HACH | | 0.03 | 0.07 | 0.07 | 0.01 | | 0.04 | 0.04 | 0.09 | 0.14 | | 0.04 | 0.02 | 0.08 | | 0.07 | | | 0.03 | 0.09 | 0.1 |
| Chlorine (field, second try) | | | HACH | | | | | | | | | | | | | | | | | | | | | |

**Table 18-2. Baseline Water Quality Data**
**Collected by MIS.**

| | | | OE | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1-5C | P5 | P5 | P5 | P5-D | P5 | P5-D | P5 | P5-D | P5 | P5-D | P5-D | SBL | SBL | SBL | SBL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER / ANALYTE | UNITS | MDL | Oxhide Extension | Pit 1 | Pit 1 | Pit 1 | Pit 1 | Pit 1 | Pit 1 | Pit 1 | Pit 1/5 Channel | Pit 5 | Pit 5 | Pit 5 | Pit F | Pit 5 | Pit F | Pit 5 | Pit F | Pit 5 | Pit F | Pit F | Snowball Lake | Snowball Lake | Snowball Lake | Snowball Lake |
| SAMPLING ROUND | | | 8 | 1 | 3 | 5 | 6 | 7 | 8 | 8 | 2 | 1 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 3 | 5 | 6 | 7 |
| SAMPLED DATE | | | 07/17/00 | 03/05/97 | 06/02/99 | 09/14/99 | 11/30/99 | 05/01/00 | 07/17/00 | 07/17/00 | 03/15/99 | 03/05/97 | 06/02/99 | 09/14/99 | 09/14/99 | 11/30/99 | 11/30/99 | 05/01/00 | 05/01/00 | 07/17/00 | 07/17/00 | 07/17/00 | 06/01/99 | 09/13/99 | 11/29/99 | 05/01/00 |
| TIME (MILITARY) | | | 1400 | | 1030 | 1430 | | 1304 | | 1305 | 1000 | | 1000 | 1400 | 1400 | | | 1318 | 1322 | 1340 | | 1335 | | 1430 | | 1116 |
| EASTING (1927 State Plane Feet) | | | 1971955 | | 1971544 | 1971544 | 1971544 | 1971544 | | 1971544 | | | 1970468 | 1970468 | 1970468 | 1970468 | 1970468 | 1970468 | 1970468 | 1970468 | | 1970468 | 1966716 | 1966716 | 1966716 | 1966716 |
| NORTHING (1927 State Plane Feet) | | | 304644 | | 313782 | 313782 | 313782 | 313782 | | 313782 | | | 312869 | 312869 | 312869 | 312869 | 312869 | 312869 | 312869 | 312869 | | 312869 | 303787 | 303787 | 303787 | 303787 |
| ELEVATION (feet, from 1997 mapping) | | | 1347.5 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | | 1360.1 | | 1354.5 | 1354.5 | 1354.5 | 1354.5 | 1354.5 | 1354.5 | 1354.5 | 1354.5 | 1354.5 | | 1354.5 | 1357.1 | 1357.1 | 1357.1 | 1357.1 |
| AIR TEMP | ° F | | | | 58 | 58 | 42 | 59 | | | | | 58 | 61 | 59 | | | 58 | 58 | | | | 51 | 56 | 24 | 55 |
| WATER TEMP | ° F | | 74 | | 61 | 62 | 41 | | | 70 | | | 59 | 59 | 61 | 41 | 41 | | | 69 | | 69 | 60 | 62 | 39 | |
| Conductivity | uhmos/cm | 1 | 419 | | 408 | 371 | 381 | 431 | 440 | 428 | 415 | | 424 | 381 | 385 | 437 | 418 | 448 | 450 | 453 | 424 | 415 | 285 | 240 | 260 | 269 |
| Hardness, Total | mg/L | 1 | 172 | | 188 | 161 | 187 | 189 | 198 | 174 | 188 | | 201 | 178 | 158 | 204 | 212 | 193 | 196 | 182 | 201 | 184 | 122 | 59.3 | 113 | 111 |
| Color | PCU | 5 | | <5 | 5 | | | | 10 | | | <5 | 5 | | | | | | | | 5 | | 20 | | | |
| pH | SU | 0.1 | 8.32 | 7.82 | 8.13 | 8.29 | 8.2 | 7.99 | 8.16 | 8.53 | 7.9 | 7.92 | 8.13 | 8.32 | 8.28 | 8.23 | 8.28 | 8.15 | 7.92 | 7.41 | 8.13 | 8.4 | 8.29 | 8.12 | 8.19 | 8.14 |
| Alkalinity, Carb | mg/L | 1 | | | <1.0 | | | | <1.0 | | <1.0 | | <1.0 | | | | | | | | <1.0 | | <1.0 | | | |
| Alkalinity, Total | mg/L | 1 | | | 146 | 134 | | | 161 | | 164 | | 160 | 141 | 142 | | | | | | 160 | | 99.0 | 86 | | |
| Ammonia as N | mg/L | 0.1 | | <0.10 | 0.11 | | | | 0.12 | | <0.10 | <0.10 | 0.11 | | | | | | | | 0.11 | | <0.10 | | | |
| Kjeldahl Nitrogen, Total as N | mg/L | 0.1 | 0.34 | <0.2 | 0.2 | 0.2 | 0.2 | 0.64 | 0.2 | 0.31 | | <0.2 | 0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.7 | 0.47 | 0.32 | 0.1 | 0.27 | 0.4 | 0.3 | 0.5 | 1.38 |
| Nitrate+Nitrite as N | mg/L | 0.1 | | | <0.01 | | | | <0.01 | | | | 0.02 | | | | | | | | 0.02 | | <0.01 | | | |
| Nitrate as N | mg/L | 0.1 | | <0.10 | | | | | | | <0.10 | <0.10 | | | | | | | | | | | | | | |
| Nitrite as N | mg/L | 0.01 | | | | | | | | | <0.01 | | | | | | | | | | | | | | | |
| Nitrogren: N, Total | mg/L | 0.2 | | <0.2 | | | | | | | | <0.2 | | | | | | | | | | | | | | |
| Phosphorus, Total as P | mg/L | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.1 | <0.1 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.1 | <0.1 | 0.04 | <0.1 | <0.01 | 0.01 | <0.01 | 0.02 | 0.01 | <0.1 | <0.1 |
| Bromide | mg/L | 0.1 | | <0.1 | | | | | | | | <0.1 | | | | | | | | | | | | | | |
| Calcium | mg/L | 1 | 33.8 | | 40.6 | 36.2 | 43.8 | 43.9 | 39.3 | 41 | 40.3 | | 42.1 | 38.5 | 34 | 43.9 | 45.2 | 43.2 | 43.9 | 40.4 | 42.1 | 14.9 | 29.6 | 23.7 | 29 | 29 |
| Chloride | mg/L | 0.5 | | | 7.3 | | | | 5.8 | | 8.0 | | 6.2 | | | | | | | | 6.2 | | 8.0 | | | |
| Fluoride | mg/L | 0.1 | 0.27 | 0.25 | 0.3 | 0.36 | 0.14 | 0.14 | 0.2 | 0.18 | | 0.25 | 0.3 | 0.88 | 0.24 | 0.12 | 0.18 | 0.14 | 0.14 | 0.24 | 0.3 | 0.18 | 0.2 | 0.2 | 0.12 | 0.19 |
| Iron | mg/L | 0.03 | 0.17 | 0.07 | <0.03 | 0.05 | 0.05 | 0.07 | 0.03 | 0.28 | <0.03 | 0.26 | <0.03 | 0.07 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.12 | <0.03 | 0.18 | 0.07 | 0.11 | 0.07 | 0.08 |
| Magnesium | mg/L | 0.5 | 20.8 | 19.6 | 19.9 | 17.2 | 18.9 | 19.3 | 24.3 | 17.4 | 19.4 | 25.2 | 23.4 | 19.8 | 17.8 | 23 | 24.2 | 20.8 | 21 | 20 | 23.4 | 20 | 11.6 | 9.4 | 9.9 | 9.3 |
| Manganese | mg/L | 0.01 | 0.03 | 0.02 | 0.02 | 0.05 | 0.01 | 0.06 | 0.03 | 0.07 | 0.03 | 0.03 | 0.02 | 0.01 | <0.01 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.09 | 0.06 | 0.06 | 0.08 |
| Potassium | mg/L | 0.5 | | | 2.3 | 2.2 | | | 2.4 | | 2.5 | | 2.5 | 2.4 | 2.1 | | | | | | 2.5 | | 1.4 | 1.2 | | |
| Strontium | mg/L | 4 | 97.3 | | 95.7 | 84.3 | 101 | 102 | 115 | 90.2 | | | 111 | 92.3 | 91.8 | 115 | 119 | 112 | 111 | 97.2 | 111 | 97.6 | 81.5 | 68.7 | 78.5 | 78.1 |
| Sulfide, Total | mg/L | 2 | | <0.5 | | | | | <2 | | | <0.5 | | | | | | | | | <2 | | | | | |
| Sulfite | mg/L | 0.025 | | <2 | <2 | | | | <0.025 | | | <2 | <2 | | | | | | | | <0.025 | | <2 | | | |
| Sulfate | mg/L | 1 | 33.6 | 36 | 31.5 | 39.1 | 36.9 | 38.6 | 36.0 | 31.5 | 46.0 | 42 | 34.2 | 41.9 | 40.6 | 38.8 | 39.2 | 37.8 | 32 | 32.7 | 34.2 | 33.3 | 20.0 | <1 | 16.8 | 17.4 |
| Sodium | mg/L | 0.5 | | | 6.4 | 6 | | | 7.7 | | 6.8 | | 7.0 | 6.4 | 5.8 | | | | | | 7.0 | | 7.0 | 5.6 | | |
| Aluminum | µg/L | 10 | 30.2 | 0.01 | 0.03 | 12.4 | <10 | 26.7 | 0.01 | 18.9 | | <0.01 | 0.01 | 14.4 | 16.6 | <10 | <10 | 10.8 | 12.3 | 14.4 | 0.01 | 38 | 0.02 | 17.1 | <10 | 19 |
| Antimony | ug/L | 3 | | <4 | <3.0 | | | | <3.0 | | | <4 | <3.0 | | | | | | | | <3.0 | | <3.0 | | | |
| Arsenic | µg/L | 2 | <2 | <1.0 | <2.0 | <2 | <2 | <2 | <2 | <2 | | <1.0 | <2.0 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2.0 | <2 | <2 | <2 |
| Barium | µg/L | 10 | | 0.01 | 0.01 | | | | 0.02 | | | 0.02 | 0.01 | | | | | | | | 0.01 | | 0.03 | | | |
| Beryllium | µg/L | 0.2 | | <0.2 | <0.2 | | | | <0.2 | | | <0.2 | <0.2 | | | | | | | | <.02 | | <0.2 | | | |
| Boron | µg/L | 35 | | 45.6 | <35 | | | | 52 | | | 63 | 38 | | | | | | | | 38 | | <35 | | | |
| Cadmium | µg/L | 0.2 | | <0.2 | <0.2 | | | | <0.2 | | | <0.2 | <0.2 | | | | | | | | <0.2 | | <0.2 | | | |
| Chromium | µg/L | 4 | | <4.0 | | | | | | | | <4.0 | | | | | | | | | | | | | | |
| Cobalt | µg/L | 1 | | <1.0 | <1.0 | | | | <1.0 | | | <1.0 | <1.0 | | | | | | | | <1.0 | | <1.0 | | | |
| Copper | µg/L | 1 | | <1.0 | <1.0 | | | | <1.0 | | | <1.0 | <1.0 | | | | | | | | <1.0 | | <1.0 | | | |
| Lead | µg/L | 1 | | <1.0 | <1.0 | | | | <1.0 | | | <1.0 | <1.0 | | | | | | | | <1.0 | | <1.0 | | | |
| Lithium | µg/L | 1 | | | 9.8 | | | | 9.3 | | | | 10 | | | | | | | | 10 | | 4 | | | |
| Mercury--NTS | µg/L | 0.2 | | <0.2 | <0.1 | | | | <0.1 | | | <0.2 | <0.1 | | | | | | | | <0.1 | | <0.1 | | | |
| Molybdenum | µg/L | 5 | <5 | <5.0 | <5.0 | <5 | <5 | <5 | <5 | <5 | <5.0 | <5.0 | <5.0 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5.0 | <5 | <5 | <5 |
| Nickel | µg/L | 2 | | <1.0 | <2.0 | | | | <2.0 | | | <1.0 | <2.0 | | | | | | | | <2.0 | | <2.0 | | | |
| Selenium | µg/L | 3 | | <1.0 | <3.0 | | | | <3.0 | | | <1.0 | <3.0 | | | | | | | | <3.0 | | <3.0 | | | |
| Silica | µg/L | 1 | | | 8990 | 7620 | | | 5430 | | 2110 | | 7870 | 6500 | 7080 | | | | | | 7870 | | 1220 | 2480 | | |
| Silver | µg/L | 1 | | <1.0 | | | | | | | | <1.0 | | | | | | | | | | | | | | |
| Thallium | µg/L | 4 | <2 | <4 | <4.0 | <4 | <4 | <2 | <2 | <2 | | <1.0 | <4.0 | <4 | <4 | <4 | <4 | <2 | <2 | <2 | <2 | <2 | <4.0 | <4 | <4 | <2 |
| Tin | µg/L | 10 | | <4.0 | <10.0 | | | | <10.0 | | | <4.0 | <10.0 | | | | | | | | | | <10.0 | | | |
| Titanium | µg/L | 10 | | <5.0 | <10.0 | | | | | | | <5.0 | <10.0 | | | | | | | | | | <10.0 | | | |
| Vanadium | µg/L | 4 | | | <4.0 | | | | 12 | | | | <4.0 | | | | | | | | <10.0 | | <4.0 | | | |
| Zinc | µg/L | 10 | | <10 | 12 | | | | <0.06 | | | <10 | 12 | | | | | | | | <0.06 | | 12 | | | |
| BOD | mg/L | 1 | | <1.0 | <2 | | | | <2 | | | <1.0 | <2 | | | | | | | | | | <2 | | | |
| Chemical Oxygen Demand | mg/L | 1 | 53 | <2.0 | 3.7 | 3.7 | <1 | 7.5 | 3.7 | 44.4 | | <2.0 | 3.7 | <1 | 3.7 | <1 | <1 | <1 | 7.5 | 76.2 | 3.7 | 28.9 | 15.0 | 15 | 18.7 | 28.9 |
| Organic Carbon, Total | mg/L | 1 | 2.2 | 1.8 | 1.9 | 1.5 | 1.9 | 3.3 | 3.0 | 1.2 | | 1.4 | 1.7 | 1.3 | 1.3 | 1.7 | 1.6 | 3 | 2.6 | <1 | 1.7 | <1 | 6.6 | 6.8 | 6.7 | 8.3 |
| Oil and Grease | mg/L | 1 | | <1.0 | <0.5 | | | | <0.5 | | 2.1 | <1.0 | <0.5 | | | | | | | | <0.5 | | <0.5 | | | |
| Solids, Total Suspended | mg/L | 1.0 | | <1.0 | 1.0 | | | | 5.0 | | 20.0 | 1.2 | 3.0 | | | | | | | | 3.0 | | 3.0 | | | |
| Solids, Total Dissolved | mg/L | 1 | 190 | | 181.0 | 178 | 178 | 196 | 171 | 213 | 219 | | 185.0 | 232 | 210 | 1? | 182 | 200 | 213 | 203 | 185 | 133 | 127 | 102 | 120 | 126 |
| Corrosivity Index (Langlier) | | | | | | | | | | | -0.32 | | | | | | | | | | | | | | | |
| DRO-WATER | mg/L | 0.1 | <0.1 | | <0.10 | <0.06 | <0.1 | <0.1 | <0.1 | <0.1 | | | <0.10 | <0.06 | <0.06 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.10 | <0.06 | <0.1 | <0.1 |
| GRO-WATER | mg/L | 0.1 | <0.06 | | <0.06 | <0.10 | <0.06 | <0.06 | <0.06 | <0.06 | | | <0.06 | <0.10 | <0.10 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.10 | <0.1 | <0.06 |
| Surfactants | mg/L | 0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 2 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Fecal Coliform | colonies | 1 | | <1 | | | | | | | | <1 | | | | | | | | | | | | | | |
| Residual Chlorine | mg/L | | | <0.01 | | | | | | | | <0.01 | | | | | | | | | | | | | | |
| Free Chlorine | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlorine (field) | | | 0 | | 0.06 | 0.07 | 0.05 | 0.08 | | 0.05 | | | 0.03 | 0.03 | 0.03 | 0.06 | 0.06 | 0.08 | 0.07 | 0.06 | | 0.06 | | 0.12 | 0.06 | 0.11 |
| Chlorine (field, second try) | | | 0 | | | | | | | | | | | 0.13 | 0.13 | | | | | | | | | 0.2 | | |

**Table 18-2. Baseline Water Quality Data**
**Collected by MIS.**

| | | | SBL | SBL | SL1 | SL1 | SL1 | SL1 | SL2 | SL2 | SL3 | SL3 | SL3 | SL6 | SL6 | SL6 | TBN | TBN | TBN | TBN | TBN | TBN | UOD | UOD | UOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER / ANALYTE | UNITS | MDL | Snowball Lake | Snowball Lake | Swan 1 | Swan 1 | Swan 1 | Swan 1 | Swan 3 | Swan 3 | Swan 3B | Swan 3 | Swan 6 | Swan 6 | Swan 6B | Swan 6 | TBN (Tailings Basin North) | TBN (Tailings Basin North) | TBN (Tailings Basin North) | TBN (Tailings Basin North) | TBN (Tailings Basin North) | TBN (Tailings Basin North) | Upper Oxhide Diversion | Upper Oxhide Diversion | Upper Oxhide Diversion |
| SAMPLING ROUND | | | 8 | 8 | 4 | 7 | 8 | 8 | 4 | 8 | 6 | 7 | 8 | 4 | 6 | 7 | 2 | 3 | 5 | 6 | 7 | 8 | 3 | 5 | 6 |
| SAMPLED DATE | | | 07/17/00 | 07/17/00 | 08/25/99 | 05/02/00 | 07/17/00 | 07/18/00 | 08/25/99 | 07/18/00 | 11/30/99 | 05/02/00 | 07/18/00 | 08/25/99 | 11/30/99 | 05/02/00 | 03/15/99 | 06/01/99 | 09/14/99 | 11/29/99 | 05/01/00 | 07/17/00 | 06/02/99 | 09/14/99 | 11/30/99 |
| TIME (MILITARY) | | | | 1355 | | 1000 | | 1015 | | 1000 | | 1030 | 1025 | | | 1100 | 1100 | | 1600 | | 1422 | 1510 | 1100 | 1500 | |
| EASTING (1927 State Plane Feet) | | | | 1966716 | 1979911 | 1979911 | | 1979911 | 1978326 | 1978326 | 1978326 | 1978326 | 1977758 | 1977758 | 1977758 | 1977758 | 1990309 | 1990309 | 1990309 | 1990309 | 1990309 | 1990309 | 1977634 | 1977634 | 1977634 |
| NORTHING (1927 State Plane Feet) | | | | 303787 | 293970 | 293970 | | 293970 | 301561 | 301561 | 301561 | 301561 | 288741 | 288741 | 288741 | 288741 | 319809 | 319809 | 319809 | 319809 | 319809 | 319809 | 319515 | 319515 | 319515 |
| ELEVATION (feet, from 1997 mapping) | | | | 1357.1 | 1335.5 | 1335.5 | | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1372.7 | 1372.7 | 1372.7 | 1372.7 | 1372.7 | 1372.7 | 1503 | 1503 | 1503 |
| AIR TEMP | ° F | | | | 82 | | | | 78 | | | | | 82 | | | | | 59 | 26 | 58 | | 58 | 62 | 35 |
| WATER TEMP | ° F | | | 68 | 76 | | | 68 | 76 | 67 | 34 | | 67 | 76 | 33 | | | 58 | 62 | 36 | | 72 | 68 | 59 | 33 |
| Conductivity | uhmos/cm | 1 | 408 | 263 | 308 | 362 | 115 | 370 | 311 | 372 | 326 | 366 | 371 | 307 | 317 | 364 | 349 | 355 | 320 | 353 | 385 | 382 | 115 | 109 | 126 |
| Hardness, Total | mg/L | 1 | 183 | 110 | 135 | 159 | 48 | 146 | 140 | 154 | 167 | 159 | 152 | 135 | 150 | 160 | 162 | 165 | 143 | 170 | 166 | 174 | 48 | 42 | 54 |
| Color | PCU | 5 | 5 | | <20 | | 40 | | <30 | | | | | <20 | | | | 20 | | | | | 40 | | |
| pH | SU | 0.1 | 8.13 | 8.8 | 8.7 | 8.39 | 7.35 | 8.72 | 8.79 | 8.65 | 8.5 | 8.37 | 8.73 | 8.81 | 8.63 | 8.36 | 7.68 | 7.88 | 8.25 | 8.01 | 7.78 | 7.29 | 7.35 | 7.62 | 7.67 |
| Alkalinity, Carb | mg/L | 1 | <1.0 | | 7.5 | | <1.0 | | 7.5 | | | | | 5 | | | <1.0 | <1.0 | | | | | <1.0 | | |
| Alkalinity, Total | mg/L | 1 | 146 | | 125 | | 40.0 | | 123 | | | | | 135 | | | 148 | 148 | 134 | | | | 40 | 42 | |
| Ammonia as N | mg/L | 0.1 | 0.11 | | <0.1 | | <0.10 | | <0.1 | | | | | <0.1 | | | <0.10 | <0.10 | | | | | <0.10 | | |
| Kjeldahl Nitrogen, Total as N | mg/L | 0.1 | 0.2 | 0.64 | 0.7 | 0.98 | 1 | 0.55 | 0.6 | 0.47 | 1.3 | 0.96 | 0.58 | 0.6 | 0.5 | 0.89 | | 0.3 | 0.5 | 0.8 | 1.39 | 0.49 | 1 | 0.7 | 0.6 |
| Nitrate+Nitrite as N | mg/L | 0.1 | <0.01 | | <0.1 | | <0.01 | | <0.1 | | | | | <0.1 | | | | <0.01 | | | | | <0.01 | | |
| Nitrate as N | mg/L | 0.1 | | | | | | | | | | | | | | | <0.10 | | | | | | | | |
| Nitrite as N | mg/L | 0.01 | | | | | | | | | | | | | | | <0.01 | | | | | | | | |
| Nitrogren: N, Total | mg/L | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphorus, Total as P | mg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.1 | 0.03 | <0.01 | 0.02 | <0.01 | 0.1 | <0.1 | <0.01 | 0.02 | <0.1 | <0.1 | <0.01 | 0.02 | 0.01 | <0.1 | 0.02 | <0.01 | 0.03 | <0.01 | <0.1 |
| Bromide | mg/L | 0.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Calcium | mg/L | 1 | 40.6 | 26 | 27.7 | 32.4 | 10.4 | 30 | 28 | 30.7 | 34.5 | 32.6 | 30 | 26.6 | 30.8 | 32.3 | 34.5 | 36.9 | 32.6 | 40.2 | 39.8 | 36.4 | 10.4 | 9.9 | 13.1 |
| Chloride | mg/L | 0.5 | 7.3 | | 7.2 | | 5.0 | | 7.4 | | | | | 7.2 | | | 7.4 | 6.6 | | | | | 5 | | |
| Fluoride | mg/L | 0.1 | 0.3 | 0.27 | 0.28 | 0.19 | 0.3 | 0.32 | 0.28 | 0.32 | 0.22 | 0.21 | 0.32 | 0.24 | 0.24 | 0.17 | | 0.24 | 0.36 | 0.14 | 0.19 | 0.32 | 0.3 | 0.36 | 0.1 |
| Iron | mg/L | 0.03 | <0.03 | 0.31 | 0.03 | <0.03 | 0.9 | 0.29 | 0.04 | 0.25 | 1.13 | <0.03 | 0.32 | 0.04 | 0.09 | <0.03 | 0.04 | 0.12 | 0.06 | 0.34 | 0.11 | 0.09 | 0.9 | 1.62 | 2.64 |
| Magnesium | mg/L | 0.5 | 19.9 | 9.43 | 18.1 | 19 | 5.4 | 17.5 | 18.3 | 17.8 | 19.6 | 19 | 17.8 | 17.2 | 17.7 | 19.2 | 16.4 | 17.6 | 15 | 16.8 | 16.3 | 15.5 | 5.4 | 4.1 | 5.2 |
| Manganese | mg/L | 0.01 | 0.02 | 0.14 | <0.01 | 0.03 | 0.29 | 0.02 | <0.01 | 0.03 | 0.88 | 0.04 | 0.02 | 0.04 | 0.09 | 0.04 | 0.26 | 0.1 | 0.05 | 0.46 | 0.31 | 0.06 | 0.29 | 0.17 | 0.28 |
| Potassium | mg/L | 0.5 | 2.3 | | 2.4 | | 1.2 | | 2.4 | | | | | 2.3 | | | 2.3 | 2.2 | 2 | | | | 1.2 | 1.2 | |
| Strontium | mg/L | 4 | 95.7 | 69.6 | 78.3 | 83.8 | 39.8 | 74.5 | 77.8 | 78.1 | 87.2 | 83.8 | 78.5 | 77.5 | 79 | 83.8 | | 89.2 | 77.8 | 94.1 | 92.4 | 84.7 | 39.8 | 36.1 | 41.2 |
| Sulfide, Total | mg/L | 2 | <2 | | | | <2 | | | | | | | | | | | | | | | | | | |
| Sulfite | mg/L | 0.025 | <0.025 | | <2 | | <0.025 | | <2 | | | | | <2 | | | | <2 | | | | | <2 | | |
| Sulfate | mg/L | 1 | 31.5 | 14 | 24.3 | 21.4 | <1.0 | 18.6 | 23.2 | 18.9 | 23 | 22.4 | 18 | 21.1 | 22.6 | 22.8 | <1.0 | 13.7 | <1 | 16.8 | 16.8 | 11 | <1.0 | 2 | 9.76 |
| Sodium | mg/L | 0.5 | 6.4 | | 7.3 | | 3.6 | | 7.3 | | | | | 7.2 | | | 7.1 | 7.1 | 6 | | | | 3.6 | 3 | |
| Aluminum | µg/L | 10 | 0.03 | 94.4 | 10.1 | <10 | 0.07 | <10 | 13.1 | <10 | 229 | <10 | 18.3 | 12.2 | <10 | <10 | | 0.03 | 21.4 | 55.1 | 12.9 | 12 | 0.07 | 52.4 | 99.2 |
| Antimony | ug/L | 3 | <3.0 | | <3 | | <3.0 | | <3 | | | | | <3 | | | | <3.0 | | | | | <3.0 | | |
| Arsenic | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | | 2 | <2 | <2 | <2 | <2 | 2.5 | <2 | <2 |
| Barium | µg/L | 10 | 0.01 | | 19.8 | | 0.01 | | 20.1 | | | | | 19.7 | | | | 0.03 | | | | | 0.01 | | |
| Beryllium | µg/L | 0.2 | <0.2 | | <0.2 | | <0.2 | | <0.2 | | | | | <0.2 | | | | <0.2 | | | | | <0.2 | | |
| Boron | µg/L | 35 | <35 | | <35 | | <35 | | <35 | | | | | <35 | | | | 39 | | | | | <35 | | |
| Cadmium | µg/L | 0.2 | <0.2 | | <0.2 | | <0.2 | | <0.2 | | | | | <0.2 | | | | <0.2 | | | | | <0.2 | | |
| Chromium | µg/L | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Cobalt | µg/L | 1 | <1.0 | | <1 | | <1.0 | | <1 | | | | | <1 | | | | <1.0 | | | | | <1.0 | | |
| Copper | µg/L | 1 | <1.0 | | 1.1 | | <1.0 | | <1 | | | | | 1.5 | | | | <1.0 | | | | | <1.0 | | |
| Lead | µg/L | 1 | <1.0 | | <1 | | <1.0 | | <1 | | | | | <1 | | | | <1.0 | | | | | <1.0 | | |
| Lithium | µg/L | 1 | 9.8 | | 5.3 | | 2.1 | | 5.3 | | | | | 5.1 | | | | 4.9 | | | | | 2.1 | | |
| Mercury--NTS | µg/L | 0.2 | <0.1 | | <0.2 | | <0.1 | | <0.2 | | | | | <0.2 | | | | <0.1 | | | | | <0.1 | | |
| Molybdenum | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5.0 | <5.0 | <5 | <5 | <5 | <5 | <5.0 | <5 | <5 |
| Nickel | µg/L | 2 | <2.0 | | <2 | | <2.0 | | <2 | | | | | <2 | | | | <2.0 | | | | | <2.0 | | |
| Selenium | µg/L | 3 | <3.0 | | <3 | | <3.0 | | <3 | | | | | <3 | | | | <3.0 | | | | | <3.0 | | |
| Silica | µg/L | 1 | 8990 | | 3.25 | | 2540 | | 3.2 | | | | | 3.45 | | | 2080 | 6070 | 7050 | | | | 2540 | 6450 | |
| Silver | µg/L | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Thallium | µg/L | 4 | <2 | <2 | <4 | <2 | <2 | <2 | <4 | <2 | <4 | <2 | <2 | <4 | <4 | <2 | | <4.0 | <4 | <4 | <2 | <2 | <4.0 | <4 | <4 |
| Tin | µg/L | 10 | <10.0 | | <10 | | <10.0 | | <10 | | | | | <10 | | | | <10.0 | | | | | <10.0 | | |
| Titanium | µg/L | 10 | | | <10 | | | | <10 | | | | | <10 | | | | <10.0 | | | | | <10.0 | | |
| Vanadium | µg/L | 4 | 12 | | <4.0 | | 12 | | <4.0 | | | | | <4 | | | | <4.0 | | | | | <4.0 | | |
| Zinc | µg/L | 10 | <0.06 | | 10 | | <0.06 | | <10 | | | | | <10 | | | | 12 | | | | | 12 | | |
| BOD | mg/L | 1 | <2 | | 2.4 | | <2 | | 2.4 | | | | | 2.2 | | | | <2 | | | | | <2 | | |
| Chemical Oxygen Demand | mg/L | 1 | 3.7 | 7.5 | 25.6 | 25.6 | 3.7 | 68.8 | 32.1 | 7.5 | 25.6 | 22.2 | 18.7 | 28.9 | 15 | 22.2 | | 11.3 | 11.3 | 22.2 | 30.5 | 22.2 | 3.7 | 18.7 | 25.6 |
| Organic Carbon, Total | mg/L | 1 | 1.9 | 5.8 | 7.9 | 8.6 | 12.7 | 5.2 | 8.2 | 5.2 | 8.8 | 8.5 | 5.2 | 7.5 | 7.9 | 8.5 | | 14.5 | 6.7 | 7.9 | 7.2 | 4.6 | 12.7 | 10.2 | 11.8 |
| Oil and Grease | mg/L | 1 | <0.5 | | 6.2 | | <0.5 | | 7.9 | | | | | 4.3 | | | <0.5 | <0.5 | | | | | <0.5 | | |
| Solids, Total Suspended | mg/L | 1.0 | 1.0 | | 5.0 | | 4.0 | | 4.0 | | | | | 6.0 | | | 1.0 | 2.0 | | | | | 4.0 | | |
| Solids, Total Dissolved | mg/L | 1 | 181 | 126 | 173 | 175 | 56.0 | 164 | 178 | 190.0 | 144 | 180 | 185 | 184 | 140 | 187 | 181 | 146.0 | 204 | 152 | 170 | 200 | 56.0 | 70 | 62 |
| Corrosivity Index (Langlier) | | | | | | | | | | | | | | | | | -0.67 | | | | | | | | |
| DRO-WATER | mg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.10 | <0.06 | <0.1 | <0.1 | <0.1 | <0.10 | <0.06 | <0.1 |
| GRO-WATER | mg/L | 0.1 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | | <0.06 | <0.10 | <0.1 | <0.06 | <0.06 | <0.06 | <0.10 | <0.06 |
| Surfactants | mg/L | 0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 2 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| Fecal Coliform | colonies | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Residual Chlorine | mg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Free Chlorine | | | | | | | | | | | | | | | | | <0.2 | | | | | | | | |
| Chlorine (field) | | | | 0.12 | 0.13 | 0.08 | | 0.11 | 0.04 | 0.01 | | 0.06 | | 0.06 | 0.08 | 0.09 | | | | 0.06 | 0.08 | 0.11 | 0.07 | 0.21 | 0.05 |
| Chlorine (field, second try) | | | | | | | | | | | | | | | | | | | | | | | | | |