

CAMP LAKE WATER QUALITY DATABASE

| Sample Date | pH | Cond (uS/cm) | Alk | T Hard | Ca Hard | React P | Total P | NH3 (N) | NO2 + NO3 (N) | TKN | CL | SO4 | Na | K | Turb (NTU) | Color |
|-------------|-------------|--------------|------------|------------|-------------|--------------|--------------|--------------|---------------|-------------|-----------|-------------|-------------|-------------|------------|-----------|
| 10/15/2007 | 8.35 | 561 | 176 | 233 | 99 | 0.025 | 0.027 | 0.08 | 0.20 | 1.02 | 64.7 | 36.76 | 29.8 | 2.6 | 3.9 | 26 |
| 5/15/2008 | 8.11 | 590 | 200 | 252 | 127 | 0.024 | 0.052 | 0.02 | 0.70 | 0.99 | 54.0 | 30.43 | 25.7 | 2.8 | 6.0 | 28 |
| 10/22/2008 | 8.52 | 500 | 164 | 201 | 84 | n/a | 0.027 | 0.02 | <0.01 | 0.90 | 52.5 | 23.43 | 25.3 | 2.8 | 5.5 | 36 |
| 4/6/2009 | 8.22 | 580 | 184 | 216 | 121 | n/a | 0.028 | <0.01 | 0.58 | 0.88 | 51.2 | 25.10 | 25.6 | 2.8 | 4.2 | 25.3 |
| 10/15/2009 | 8.41 | 437 | 164 | 180 | 82 | 0.031 | 0.033 | 0.03 | <0.01 | 0.95 | 45.9 | 17.39 | 23.5 | 3.2 | 3.3 | 21.8 |
| 4/13/2010 | 8.16 | 492 | 204 | 236 | 126 | 0.017 | 0.026 | <0.01 | 0.10 | 0.77 | 47.3 | 20.60 | 21.7 | 3.0 | 3.6 | 21 |
| 10/19/2010 | 8.11 | 505 | 176 | 208 | 91 | 0.018 | 0.040 | 0.08 | 0.10 | 1.71 | 50.9 | 15.2 | 24.2 | 3.6 | 4.9 | 20.4 |
| 4/14/2011 | 8.26 | 545 | 200 | 232 | 119 | 0.009 | 0.029 | 0.06 | 1.54 | 0.97 | 50.1 | 23.3 | 26.0 | 3.2 | x | 7.8 |
| 10/19/2011 | 8.53 | 452 | 160 | 180.4 | 72 | 0.025 | 0.046 | 0.09 | <0.1 | 1.21 | 56.5 | 16.4 | 26.0 | 1.8 | 5.4 | 23.6 |
| 3/28/2012 | 8.17 | 620 | 190 | 240 | 120 | <0.019 | 0.038 | 0.2 | 0.048 | 0.83 | 57 | 20.0 | 29.0 | 2.2 | 4.4 | 30 |
| 10/11/2012 | 8.63 | 560 | 140 | 220 | 74 | <0.010 | <0.010 | 0.12 | <0.052 | 0.77 | 78 | 20.0 | 39.0 | 1.7 | 3.3 | 20 |
| 4/22/2013 | 7.84 | 563 | 160 | 202 | 107 | <0.005 | 0.027 | 0.056 | 1.3 | 0.69 | 61 | 29.0 | 30.6 | 2.61 | 7.7 | 30 |
| 10/17/2013 | 8.24 | 560 | 180 | 209 | 88.1 | <0.005 | 0.020 | 0.040 | <0.090 | 0.85 | 74 | 21.0 | 35.3 | 2.48 | 1.3 | 30 |
| 4/25/2014 | 8.44 | 600 | 180 | 212 | 106 | <0.005 | 0.016 | <0.04 | 0.12 | 0.55 | 67 | 26.0 | 33.8 | 2.54 | 2.7 | 20 |
| 10/13/2014 | 8.58 | 582 | 160 | 206 | 83.4 | 0.023 | 0.023 | <0.04 | 0.87 | 1.1 | 75 | 24.0 | 35.6 | 1.96 | 2.3 | 20 |
| 4/10/2015 | 8.21 | 639 | 190 | 217 | 99.6 | <0.004 | <0.006 | <0.03 | <0.07 | 0.87 | 80 | 25.0 | 34.6 | 2.11 | 1.0 | 15 |
| 10/19/2015 | 7.88 | 615 | 190 | 231 | 102 | <0.004 | 0.018 | <0.03 | <0.07 | 0.56 | 73 | 21.0 | 37.1 | 2.41 | 3.1 | 30 |
| 3/29/2016 | 8.33 | 565 | 240 | 233 | 119 | <0.004 | <0.005 | <0.03 | 0.22 | 0.74 | 60 | 23.0 | 28.7 | 2.10 | 2.5 | 20 |
| 10/14/2016 | 8.04 | 616 | 200 | 228 | 83.2 | <0.004 | <0.005 | 0.048 | <0.045 | 0.98 | 72 | 19.0 | 32.9 | 2.35 | 2.1 | 20 |
| 4/3/2017 | 7.89 | 644 | 210 | 214 | 109 | <0.004 | 0.010 | <0.040 | 0.28 | 1.80 | 72 | 25.0 | 26.3 | 2.47 | 6.0 | 15 |
| 10/16/2017 | 8.48 | 524 | 180 | 169 | 73.4 | <0.004 | 0.014 | 0.069 | <0.06 | 0.80 | 110 | 16.0 | 26.1 | 2.34 | 3.3 | 15 |
| 4/4/2018 | 8.12 | 542 | 210 | 200 | 98.4 | <0.004 | 0.009 | <0.004 | 0.16 | 0.72 | 46 | 16.0 | 22.2 | 2.76 | 4.3 | 15 |
| AVG | 8.25 | 559 | 184 | 215 | 99.3 | 0.009 | 0.022 | 0.042 | 0.27 | 0.94 | 64 | 22.4 | 29.0 | 2.54 | 3.7 | 22 |

CENTER LAKE WATER QUALITY DATABASE

| Sample Date | pH | Cond (umhos) | Alk | T Hard | Ca Hard | React P | Total P | NH3 (N) | NO2 + NO3 (N) | TKN | Cl | SO4 | Na | K | Turb (NTU) | Color |
|-------------|-------------|--------------|------------|------------|------------|--------------|--------------|-------------|---------------|-------------|-----------|-----------|-------------|-------------|------------|-----------|
| 10/15/2007 | 8.00 | 566 | 196 | 245 | 121 | 0.021 | 0.035 | 0.30 | 0.30 | 1.34 | 51.8 | 34.67 | 24.9 | 3.7 | 3.4 | 36 |
| 5/15/2008 | 8.28 | 657 | 224 | 288 | 154 | n/a | 0.031 | 0.02 | 1.40 | 0.92 | 60.4 | 33.26 | 28.7 | 3.1 | 5.3 | 35 |
| 10/22/2008 | 8.00 | 583 | 205 | 238 | 117 | 0.038 | 0.042 | 0.25 | <0.01 | 1.20 | 52.3 | 26.42 | 26.0 | 3.7 | 4.1 | 33 |
| 4/6/2009 | 8.12 | 654 | 208 | 252 | 146 | 0.032 | 0.045 | <0.01 | 1.24 | 0.92 | 57.7 | 29.21 | 28.0 | 3.1 | 4.5 | 31.5 |
| 10/15/2009 | 8.00 | 504 | 208 | 216 | 122 | 0.037 | 0.049 | 0.51 | <0.01 | 1.53 | 42.9 | 17.61 | 22.3 | 4.1 | 5.5 | 30.6 |
| 4/13/2010 | 8.31 | 586 | 240 | 287 | 160 | 0.018 | 0.039 | <0.01 | 0.8 | 0.95 | 52.9 | 24.12 | 24.3 | 3.2 | 5.0 | 33 |
| 10/19/2010 | 7.90 | 570 | 212 | 240 | 123 | 0.028 | 0.048 | 0.26 | 0.02 | 1.39 | 49.8 | 17.9 | 24.0 | 3.3 | 4.0 | 25.5 |
| 4/14/2011 | 8.43 | 619 | 232 | 260 | 140 | 0.022 | 0.060 | 0.03 | 0.76 | 1.23 | 57.3 | 26.0 | 29.0 | 3.2 | x | 20.2 |
| 10/19/2011 | 8.01 | 577 | 208 | 234.5 | 112.5 | 0.037 | 0.057 | 0.56 | <0.1 | 1.67 | 60.5 | 20.1 | 29.0 | 2.7 | 4.8 | 24.2 |
| 3/28/2012 | 8.22 | 680 | 210 | 270 | 130 | <0.019 | 0.024 | 0.20 | 0.77 | 1.1 | 65 | 24 | 31.0 | 2.5 | 1.6 | 30 |
| 10/11/2012 | 8.18 | 590 | 160 | 240 | 89 | <0.010 | 0.034 | 0.29 | <0.052 | 0.9 | 75 | 23 | 37.0 | 2.5 | 3.3 | 20 |
| 4/22/2013 | 7.83 | 623 | 180 | 221 | 120 | <0.005 | 0.029 | 0.07 | 1.9 | 0.44 | 70 | 39 | 35.0 | 2.91 | 8.4 | 40 |
| 10/17/2013 | 7.88 | 611 | 200 | 237 | 115 | <0.005 | 0.018 | 0.14 | 0.22 | 0.75 | 67 | 30 | 35.5 | 2.95 | 2.6 | 30 |
| 4/25/2014 | 8.56 | 670 | 200 | 235 | 124 | <0.005 | 0.025 | <0.04 | 0.22 | 0.52 | 77 | 38 | 37.9 | 2.79 | 11 | 40 |
| 10/13/2014 | 8.24 | 672 | 200 | 250 | 120 | <0.004 | 0.022 | 0.099 | 0.51 | 1.4 | 82 | 31 | 38.2 | 2.75 | 3.9 | 35 |
| 4/10/2015 | 8.18 | 743 | 230 | 266 | 132 | <0.004 | 0.015 | <0.03 | 0.18 | 1.1 | 84 | 33 | 39.0 | 2.78 | 1.9 | 30 |
| 10/19/2015 | 7.67 | 668 | 210 | 265 | 129 | <0.004 | 0.028 | <0.03 | <0.07 | 0.73 | 73 | 23 | 36.4 | 3.19 | 9.3 | 30 |
| 3/29/2016 | 8.42 | 608 | 270 | 274 | 145 | <0.004 | 0.009 | <0.03 | 0.74 | 0.75 | 73 | 27 | 31.5 | 2.33 | 3.4 | 30 |
| 10/14/2016 | 8.19 | 680 | 230 | 257 | 102 | <0.004 | <0.005 | 0.16 | <0.045 | 0.97 | 73 | 23 | 34.5 | 2.53 | 2.5 | 30 |
| 4/3/2017 | 8.09 | 738 | 240 | 250 | 129 | <0.004 | 0.017 | <0.04 | 0.56 | 2.40 | 85 | 37 | 30.1 | 2.41 | 9.0 | 20 |
| 10/16/2017 | 8.14 | 565 | 220 | 205 | 106 | <0.004 | 0.014 | 0.36 | <0.06 | 1.10 | 55 | 15 | 24.2 | 3.39 | 2.9 | 20 |
| 4/4/2018 | 8.38 | 628 | 240 | 233 | 121 | <0.004 | 0.013 | <0.04 | 0.48 | 0.79 | 52 | 20 | 24.7 | 3.37 | 2.3 | 40 |
| AVG | 8.14 | 627 | 215 | 248 | 125 | 0.011 | 0.030 | 0.15 | 0.45 | 1.10 | 64 | 27 | 30.5 | 3.02 | 4.5 | 30 |

Data collected and compiled by Jeff Stelzer, Lake and Pond Solutions Co.