**City Creek 1**

**Warm Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. Coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 6 mg/L** | **308(uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/16/08** | 5.6 | 29.2 | 23.1 | 8.5 |  | 272 | 2.0 | 5794 |  |
| **7/24/08** | 3.63 | 26.4 | 20.4 | 8.5 | 8.5 | 273 | 6.3 | >2419.6 |  |
| **7/29/08** | 5.18 | 23.2 | 16.0 | 8.5 |  | 276 | 7.4 | >2419.6 |  |
| **8/6/08** | 5.20 | 26.9 | 21.8 | 8.5 | 7.9 | 285 | 8.6 | 2419.6 | ***5.32*** |
| **8/14/08** | 3.49 | 28.8 | 21.3 | 8.5 | 7.9 | 288 | 1.0 | 1986.3 | 3.81 |
| **8/19/08** | 3.66 | 23.9 | 19.6 | 8.5 | 7.8 | 288 | 3.0 | 1046.2 | 4.13 |
| **8/25/08** | 2.81 | 34.0 | 25.9 | 8.7 | 7.9 | 285 | 2.0 | >2419.6 | 3.28 |
| **9/5/08** | 2 | 29.2 | 24.7 | 8.5 | 7.5 | 283 | 2.0 | 1732.9 | 2.53 |
| **9/11/08** | 2.06 | 26.2 | 22.2 | 8.6 | 8.3 | 281 | 1.0 | 1986.3 | 1.64 |
| **9/15/08** | 3.51 | 28.0 | 18.1 | 8.4 | 9.0 | 294 | 1.0 | 1732.9 | 1.64 |
| **9/24/08** | 2.96 | 34.0 | 24.0 | 8.6 | 8.0 | 289 | <1.0 | 1203.3 |  |
| **10/2/08** | 2.67 | 32.0 | 23.7 | 8.7 | 8.1 | 328 | 4.1 | 1119.9 | ***1.69*** |
| **10/8/08** | 2.43 | 27.4 | 20.2 | 8.5 | 8.7 | 296 | 2.0 | >2419.6 | ***1.69*** |
| **10/18/08** | 3.61 | 29.0 | 18.2 | 8.5 | 9.9 | 291 | 4.1 | >2419.6 |  |
| **10/20/08** | 3.64 | 10.1 | 13.2 | 8.3 | 9.6 | 294 | <1.0 | >2419.6 |  |
| **10/31/08** | 4.32 | 17.3 | 14.7 | 8.3 | 9.4 | 296 | 42.2 | >2419.6 | ***6.14*** |
| **5/7/09** | 10.4 | 22.0 | 15.7 | 8.3 | 8.7 | 245 | 42.0 | 328.2 |  |
| **5/11/09** | 9.5 | 24.8 | 17.8 | 8.3 | 9.2 | 261 | 18.7 | 1119.9 |  |
| **5/20/09** | 6.4 | 14.4 | 16.0 | 8.3 | 9.4 | 260 | 30.9 | 547.5 |  |
| **5/26/09** | 8.9 | 16.0 | 16.0 | 8.4 | 9.8 | 263 | 4.1 | 344.8 | ***17.76*** |
| **6/4/09** | 9.1 | 19.3 | 16.3 | 8.4 | 9.6 | 261 | 9.8 | 365.4 | 15.8 |
| **6/7/09** | 10.5 | 15.9 | 14.5 | 8.3 | 9.8 | 253 | 1.0 | 920.8 | 7.5 |
| **6/16/09** | 9.7 | 22.2 | 17.0 | 8.4 | 9.6 | 255 | <1.0 | 387.3 |  |
| **6/23/09** | 7.8 | 21.7 | 16.5 | 8.3 | 9.3 | 267 | 4.1 | 172.5 | ***3.6*** |
| **6/29/09** | 4.8 | 31.8 | 19.1 | 8.2 | 8.2 | 265 | 8.5 | 280.9 | ***4.3*** |
| **7/8/09** | 4.7 | 22.9 | 17.5 | 8.2 | 9.2 | 277 | 5.2 | 579.4 | ***5.7*** |
| **7/13/09** | 3.7 | 33.0 | 20.5 | 8.2 | 8.9 | 288 | 12.0 | 648.8 | ***6.8*** |
| **7/21/09** | 3.9 | 30.1 | 21.1 | 8.1 | 8.2 | 340 | 88.2 | >2419.6 | 11.4 |
| **7/28/09** | 2.5 | 30.4 | 21.7 | 8.2 | 8.7 | 300 | 13.5 | 2419.6 | 14.5 |
| **8/5/09** | 2.5 | 30.0 | 19.5 | 8.1 | 9.0 | 308 | 10.9 | >2419.6 | 15.2 |
| **8/11/09** | 3.2 | 25.0 | 19.2 | 8.2 | 8.5 | 299 | 6.2 | 2419.6 | 15.7 |
| **8/17/09** | 3.0 | 26.2 | 20.1 | 8.3 | 9.6 | 295 | 36.4 | 1413.6 | 19.6 |
| **8/26/09** | 2.7 | 21.8 | 18.2 | 8.1 | 10.3 | 303 | 7.4 | 2419.6 | 12.0 |
| **9/1/09** | 2.6 | 31.6 | 22.1 | 8.2 | 7.9 | 304 | 14.6 | 5794 | 12.2 |
| **9/9/09** | 2.9 | 23.5 | 18.1 | 8.1 | 8.7 | 315 | 10.8 | 2481 | 12.1 |
| **9/14/09** | 3.2 | 19.8 | 18.6 | 8.3 | 8.6 | 310 | 37.3 | 4352 | 17.4 |
| **9/22/09** | 2.50 | 35.6 | 19.8 | 8.2 | 8.6 | 312 | 14.8 | 1299.7 | 14.5 |
| **9/28/09** | 1.6 | 30.2 | 23.4 | 8.4 | 8.0 | 317 | 1.0 | 298.7 | 9.7 |
| **10/5/09** | 3.7 | 14.2 | 13.3 | 8.2 | 9.9 | 303 | 7.4 | 2419.6 | 8.5 |
| **10/15/09** | 4.9 | 25.6 | 16.5 | 8.5 | 9.5 | 299 | 2.0 | 3282 | ***3.8*** |
| **10/19/09** | 4.9 | 20.7 | 16.8 | 8.6 | 9.4 | 311 | 3.0 | 2419.6 | 3.7 |
| **10/26/09** | 3.6 | 22.2 | 16.4 | 8.4 | 9.1 | 321 | 4.1 | 2481 | 2.8 |

**City Creek 1**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. Coli* geo mean** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **> 6 mg/L** | **308 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **12/4/08** | 7.18 | 15.8 | 10.0 | 8.4 | 10.5 | 296 | 4.1 | 1732.9 |  |
| **12/14/08** | 7.2 | 7.2 | 7.3 | 8.4 | 11.6 | 282 | 2.0 | 1046.2 |  |
| **12/21/08** | 11.2 | 14.9 | 6.0 | 8.4 | 11.7 | 275 | 3.1 | 980.4 |  |
| **12/30/08** | 20.70 | 23.0 | 10.0 | 8.3 | 10.8 | 262 | 3.1 | 1553.1 | ***2.98*** |
| **1/8/09** | 11.4 | 12.3 | 7.6 | 8.4 | 11.0 | 268 | 3.1 | 1046.2 | ***2.78*** |
| **1/17/09** | 10.5 | 25.4 | 10.8 | 8.4 | 10.7 | 276 | <1 | 920.8 |  |
| **2/5/09** | 9.8 | 16.1 | 8.9 | 8.4 | 10.8 | 266 | <1 | 980.4 |  |
| **2/11/09** | 35 | 10.0 | 11.9 | 8.2 | 10.7 | 219 | 4.1 | 816.4 |  |
| **2/20/09** | 54.8 | 7.7 | 6.6 | 8.3 | 11.3 | 183 | 3.1 | 1203.3 |  |
| **2/28/09** | 37.2 | 25.3 | 11.7 | 8.2 | 10.2 | 194 | <1 | 816.4 |  |
| **3/16/09** | 18.1 | 19.0 | 10.8 | 8.3 | 10.2 | 238 | <1 | 1119.9 |  |
| **11/3/09** | 4.8 | 21.6 | 13.1 | 8.5 | 9.7 | 309 | 2.0 | 2419.6 | 3.3 |
| **11/9/09** | 4.7 | 16.2 | 12.3 | 8.6 | 10.5 | 291 | 1.0 | 960.6 | 2.2 |
| **11/17/09** | 5.2 | 23.7 | 11.5 | 8.6 | 10.2 | 311 |  |  |  |
| **11/22/09** | 5.7 | 16.1 | 8.9 | 8.5 | 10.2 | 302 | 4.1 | 1421 | ***2.4*** |
| **11/24/09** |  |  |  |  |  |  | 3.1 | 1553.1 | 2.5 |

Results in red exceed the objective.

Geomeans in **bold *italics*** indicate results made of 4 samples in 30 days.

**City Creek 2**

**Warm Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. Coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 6 mg/L** | **308 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/16/08** | 4.24 | 31.9 | 28.9 | 8.9 |  | 319 | 12.2 | 12997 |  |
| **7/24/08** | 1.37 | 33.1 | 27.2 | 9.0 | 7.9 | 319 | 6.3 | >2419.6 |  |
| **7/29/08** | 1.5 | 28.2 | 26.1 | 9.1 | 8.2 | 331 | 12.1 | >2419.6 |  |
| **8/6/08** | 1.69 | 34.0 | 30.0 | 9.0 | 7.4 | 346 | 387.3 | >2419.6 | ***24.50*** |
| **8/14/08** | 1.34 | 31.8 | 27.4 | 9.1 | 8.1 | 338 | 35 | >2419.6 | 26.31 |
| **8/19/08** | 2.09 | 30.1 | 26.6 | 9.1 | 7.7 | 334 | 19.9 | >2419.6 | 29.01 |
| **8/25/08** | 4.72 | 37.4 | 29.0 | 9.0 | 8.0 | 336 | 18.3 | >2419.6 | 35.91 |
| **9/5/08** | 7.45 | 32.1 | 25.9 | 8.8 | 7.8 | 473 | 14.8 | >2419.6 | 37.39 |
| **9/11/08** | 5.66 | 26.0 | 24.1 | 8.8 | 8.1 | 466 | 14.5 | >2419.6 | 19.38 |
| **9/15/08** | 2.83 | 35.4 | 25.3 | 9.3 | 9.7 | 428 | 7.4 | >2419.6 | 14.20 |
| **9/24/08** | 4.45 | 34.7 | 28.4 | 9.4 | 8.9 | 441 | 7.3 | >2419.6 | 11.62 |
| **10/2/08** | 5.55 | 31.0 | 27.3 | 9.6 | 9.0 | 521 | 3.1 | >2419.6 | 8.15 |
| **10/8/08** | 7.73 | 32.3 | 24.0 | 9.1 | 8.2 | 472 | 14.6 | >2419.6 | 8.13 |
| **10/18/08** | 3.93 | 29.3 | 24.7 | 9.7 | 10.4 | 409 | 6.3 | >2419.6 | ***6.75*** |
| **10/20/08** | 4.76 | 19.3 | 16.1 | 8.9 | 10.9 | 431 | 15.8 | >2419.6 | 8.01 |
| **10/31/08** | 3.72 | 21.6 | 17.1 | 8.6 | 10.0 | 432 | 23.5 | >2419.6 | 10.11 |
| **5/7/09** | 8.5 | 31.5 | 19.6 | 8.5 | 9.4 | 274 | 38.8 | 1119.9 |  |
| **5/11/09** | 5.4 | 28.2 | 22.5 | 8.8 | 10.0 | 296 | 67.7 | 12997 |  |
| **5/20/09** | 4.8 | 22.0 | 17.0 | 8.4 | 9.9 | 270 | 108.6 | >2419.6 |  |
| **5/26/09** | 6.4 | 20.3 | 18.8 | 8.9 | 10.6 | 273 | 146.7 | >2419.6 | ***80.43*** |
| **6/4/09** | 6.4 | 21.0 | 19.1 | 9.0 | 10.2 | 275 | 62 | >2419.6 | 76.4 |
| **6/7/09** | 4.4 | 22.8 | 17.4 | 8.8 | 10.5 | 274 | 127.4 | >2419.6 | 96.8 |
| **6/16/09** | 6.6 | 25.7 | 22.9 | 9.0 | 9.7 | 275 | 29.9 | 2419.6 | 82.2 |
| **6/23/09** | 4.9 | 27.8 | 21.5 | 8.7 |  | 281 | 365.4 | >2419.6 | 104.8 |
| **6/29/09** | 2.6 | 38.0 | 23.9 | 8.8 | 10.5 | 285 | 85.7 | >2419.6 | 94.1 |
| **7/8/09** | 2.0 | 29.4 | 24.5 | 8.7 | 9.2 | 441 | 185 | >2419.6 | ***114.7*** |
| **7/13/09** | 0.0 | 34.4 | 31.1 | 9.1 | 11.7 | 409 | 107.6 | 77010 | 113.3 |
| **7/21/09** | 0.0 | 33.5 |  |  |  |  |  |  |  |
| **7/28/09** | 1.4 | 36.7 | 29.5 | 9.0 | 9.3 | 462 | 770.1 | >24196 | ***190.4*** |
| **8/5/09** | 0.4 | 35.3 | 28.0 | 8.7 | 10.8 | 429 | 1299.7 | 11199 | ***375.7*** |
| **8/11/09** | 6.9 | 31.4 | 24.6 | 8.1 | 7.9 | 447 | 488.4 | 86640 | ***478.9*** |
| **8/17/09** | 1.2 | 34.4 | 28.5 | 9.2 | 9.2 | 389 | 85.5 | 6586 | ***452.2*** |
| **8/26/09** | 0.6 | 33.9 | 23.8 | 8.5 | 10.2 | 394 | 770.1 | 81640 | 503.0 |
| **9/1/09** | 0 | 39.0 |  |  |  |  |  |  |  |
| **9/9/09** | 0 | 29.8 |  |  |  |  |  |  |  |
| **9/14/09** | 0 | 24.5 |  |  |  |  |  |  |  |
| **9/22/09** | 0.50 | 42.8 | 26.7 | 8.9 | 8.2 | 433 | 17.3 | 19863 |  |
| **9/28/09** | 0 | 34.5 |  |  |  |  |  |  |  |
| **10/5/09** | 0.5 | 19.6 | 19.6 | 8.5 | 10.5 | 429 | 62.4 | 14136 |  |
| **10/15/09** | 1.6 | 31.0 | 22.0 | 9.1 | 12.0 | 417 | 56.3 | 6867 |  |
| **10/19/09** | 1 | 23.1 | 22.5 | 9.5 | 12.7 | 426 | 151.5 | 14136 |  |
| **10/26/09** |  | 29.3 | 20.0 | 9.2 | 11.0 | 481 | 35.5 | 7701 | 65.9 |

**City Creek 2**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. Coli* geo mean** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **> 6 mg/L** | **308 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **12/4/08** | 6.28 | 16.6 | 14.5 | 8.7 | 10.6 | 408 | 204.6 | 2419.6 |  |
| **12/14/08** | 7.1 | 10.1 | 10.6 | 8.8 | 11.4 | 328 | 7.5 | >2419.6 |  |
| **12/21/08** | 11.8 | 15.9 | 10.0 | 8.6 | 11.7 | 329 | 7.3 | 1732.9 |  |
| **12/30/08** | 12.00 | 20.7 | 13.4 | 8.4 | 10.4 | 307 | 3 | 2419.6 | ***13.54*** |
| **1/8/09** | 11.2 | 23.1 | 11.7 | 8.5 |  | 286 | 3.1 | 1986.3 | ***4.75*** |
| **1/17/09** | 9.9 | 20.8 | 15.0 | 8.8 | 11.1 | 306 | <1 | 1986.3 |  |
| **2/5/09** | 6.1 | 18.7 | 12.5 | 9.0 | 10.9 | 296 | 1 | 2419.6 |  |
| **2/11/09** | 10 |  | 12.6 | 8.4 | 9.9 | 239 | 1 | 1553.1 |  |
| **2/20/09** | 51.3 | 16.0 | 9.8 | 8.4 | 11.3 | 214 | 1 | 1986.3 |  |
| **2/28/09** | 30.4 | 27.8 | 15.0 | 8.5 | 10.2 | 240 | <1 | 920.8 |  |
| **3/16/09** | 17.4 | 26.0 | 15.2 | 8.5 | 9.4 | 277 | 3 | 1299.7 |  |
| **11/3/09** | 0.8 | 34.3 | 21.4 | 9.3 | 14.6 | 422 | 9.8 | 3448 | 19.5 |
| **11/9/09** | 2.3 | 30.9 | 17.6 | 8.9 | 11.1 | 406 | 9.6 | 5475 | 19.5 |
| **11/17/09** | 1.4 | 28.3 | 17.3 | 8.9 | 9.8 | 413 |  |  |  |
| **11/22/09** | 5.6 | 20.7 | 14.3 | 8.7 | 10.3 | 428 | 79.4 | 4106 | ***27.8*** |
| **11/24/09** |  |  |  |  |  |  | 88.4 | 24196 | 35.0 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow rate (CFS)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/14/08** | 5.58 | 37.7 | 25.7 | 8.2 |  | 884 | 547.5 | 1011.2 |  |
| **7/23/08** | 7.18 | 29.4 | 27.4 | 8.1 | 7.4 | 953 | 517.2 | 26030 |  |
| **7/31/08** | 3.69 | 31.4 | 26.7 | 8.2 | 8.1 | 901 | 248.1 | >2419.6 |  |
| **8/5/08** | 3.11 | 33.0 | 27.8 | 8.3 | 7.9 | 880 | 142.1 | >2419.6 | ***316.1*** |
| **8/13/08** | 6.21 | 35.2  **San Timoteo 2**  **Warm Season Monitoring Results** | 26.7 | 8.3 | 7.9 | 836 | 172.5 | >2419.6 | ***236.8*** |
| **8/21/08** | 7.12 | 28.4 | 26.3 | 8.2 | 7.6 | 828 | 235.9 | >24196 | 236.6 |
| **8/27/08** | 7.16 | 31.4 | 28.2 | 8.2 | 7.4 | 819 | 9804 | >24196 | 426.2 |
| **9/6/08** | 7.88 | 34.2 | 28.5 | 8.2 | 7.2 | 825 | 727 | >2419.6 | ***733.9*** |
| **9/12/08** | 6.41 | 24.6 | 26.2 | 8.3 | 7.6 | 818 | 648.8 | >2419.6 | ***1022.0*** |
| **9/16/08** | 6.97 | 36.7 | 29.3 | 8.4 | 7.7 | 810 | 770.1 | >2419.6 | 965.8 |
| **9/23/08** | 5.67 | 33.4 | 27.3 | 8.3 | 8.2 | 799 | 1046.2 | >2419.6 | 1300.9 |
| **10/4/08** | 6.7 | 25.0 | 24.0 | 8.3 | 8.2 | 830 | 1553.1 | 198630 | 899.9 |
| **10/10/08** | 6.66 | 18.0 | 23.5 | 8.3 | 8.2 | 822 | 770.1 | 54750 | 910.3 |
| **10/17/08** | 7.43 | 19.7 | 20.4 | 8.2 | 8.4 | 810 | 770.1 | 41060 | ***990.8*** |
| **10/26/08** | 8.87 | 33.0 | 25.0 | 8.3 | 8.6 | 829 | 2230 | 77010 | ***1197.2*** |
| **10/30/08** | 1.56 | 28.7 | 19.7 | 8.4 | 9.4 | 904 | 2750 | 72700 | 1413.8 |
| **5/9/09** | 8.9 | 37.0 | 27.8 | 8.4 | 8.0 | 818 | 167 | 2419.6 |  |
| **5/15/09** | 8.1 |  | 27.3 | 8.4 | 8.7 | 797 | 103.9 | 9804 |  |
| **5/22/09** | 9.7 | 23.2 | 22.1 | 8.4 | 9.1 | 815 | 344.8 | 12997 |  |
| **5/30/09** | 10.9 | 23.8 | 23.1 | 8.4 | 8.7 | 824 | 344.8 | 15531 | ***213.1*** |
| **6/6/09** | 13.4 | 18.4 | 22.0 | 8.2 | 8.1 | 822 | 156.5 | 14136 | 200.4 |
| **6/12/09** | 14.7 | 21.3 | 21.9 | 8.3 | 8.8 | 816 | 172.5 | 10462 | 201.7 |
| **6/19/09** | 11.1 | 34.1 | 27.8 | 8.4 | 7.4 | 809 | 235.9 | 6488 | 237.6 |
| **6/26/09** | 12.6 | 30.5 | 24.6 | 8.3 | 8.3 | 796 |  |  |  |
| **7/2/09** | 9.9 | 32.8 | 27.5 | 8.3 | 8.1 | 794 | 435.2 | 30760 | ***229.4*** |
| **7/10/09** | 10.1 | 34.6 | 26.4 | 8.2 | 7.8 | 808 | 1046.2 | 32550 | ***368.9*** |
| **7/15/09** | 7.6 | 32.8 | 26.4 | 8.2 | 7.5 | 796 | 261.3 | 21420 | ***409.3*** |
| **7/23/09** | 9.5 | 35.0 | 27.8 | 8.2 | 8.6 | 814 | 365.4 | 68670 | ***456.6*** |
| **7/30/09** | 5.3 | 31.9 | 27.3 | 8.3 | 7.6 | 848 | 290.9 | 72700 | 417.2 |
| **8/7/09** | 8.9 | 25.8 | 26.0 | 8.2 | 7.2 | 790 | 83.3 | 38730 | 299.8 |
| **8/13/09** | 7.6 | 35.1 | 26.2 | 8.2 | 7.7 | 787 | 290.9 | 51720 | 232.1 |
| **8/20/09** | 9.4 | 31.5 | 26.5 | 8.2 | 8.6 | 779 | 517.2 | 46110 | 266.0 |
| **8/28/09** | 8.7 | 38.8 | 28.6 | 8.2 | 7.7 | 736 |  |  |  |
| **9/3/09** | 9.9 | 34.5 | 27.7 | 8.3 | 8.6 | 761 | 39.9 | 68670 | ***149.5*** |
| **9/4/09** | 8.1 | 27.3 | 35.6 | 8.3 | 8.5 | 798 | 57.3 | 57940 | 123.4 |
| **9/11/09** | 9.8 | 36.4 | 27.9 | 8.3 | 8.5 | 777 | 84.2 | 48840 | 123.7 |
| **9/16/09** | 11.4 | 30.1 | 26.2 | 8.3 | 8.4 | 772 | 579.4 | 26130 | 142.0 |
| **9/24/09** | 9.4 | 35.2 | 24.3 | 8.2 | 7.2 | 761 | 410.6 | 30760 | 135.6 |
| **10/1/09** | 7.6 |  | 25.5 | 8.3 | 8.5 | 847 | 547.5 | 32550 | 228.9 |
| **10/8/09** | 16.3 | 23.1 | 22.4 | 8.3 | 7.6 | 794 | 137.6 | 17329 | 272.7 |
| **10/17/09** | 12.5 | 34.9 | 24.4 | 8.4 | 7.6 | 794 | 63.1 | 17329 | ***210.2*** |
| **10/23/09** | 11.9 | 32.5 | 23.8 | 8.4 | 7.8 | 785 | 36.8 | 12033 | 148.3 |
| **10/28/09** | 4.7 | 15.3 | 17.2 | 8.4 | 8.8 | 809 | 72.7 | 12997 | 104.9 |

**San Timoteo 2**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©**  **San Timoteo 2**  **Cool Season Monitoring Results** | **Water Temp ©** | **PH** | **Dissolved Oxygen** | **Electrical conductivity** | **E. coli** | **Total coliform** | **E.coli geo mean[[1]](#footnote-1)** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **12/1/08** | 14.33 | 23.0 | 17.0 | 8.3 | 9.3 | 815 | 1553.1 | 86640 |  |
| **12/12/08** | 11.1 | 22.0 | 18.6 | 8.2 | 8.6 | 831 | 648.8 | 17329 |  |
| **12/20/08** | 16.8 | 11.0 | 10.0 | 8.3 | 10.6 | 816 | 218.7 | 24196 |  |
| **1/2/09** | 12.40 | 18.4 | 17.5 | 8.3 | 8.9 | 841 | 77.6 | 17329 |  |
| **1/10/09** | 16.5 | 23.0 | 17.4 | 8.2 |  | 841 | 63.8 | 21430 | ***162.8*** |
| **1/12/09** | 12.2 | 27.9 | 16.9 | 8.2 | 8.8 | 932 | 325.5 | 19863 | ***137.0*** |
| **1/20/09** | 16.4 | 15.8 | 14.7 | 8.3 | 9.2 | 849 | 22.8 | 17329 | ***77.9*** |
| **1/29/09** | 13.3 | 16.9 | 13.5 | 8.4 | 10.3 | 847 | 30.9 | 5794 | 64.7 |
| **2/3/09** | 14.7 | 23.9 | 15.7 | 8.3 | 9.2 | 847 | 64.5 | 8164 | 62.4 |
| **2/13/09** | 18.7 | 10.6 | 13.0 | 8.3 | 9.7 | 830 | 238.2 | 7270 | ***57.4*** |
| **2/19/09** | 12.7 | 17.1 | 15.3 | 8.2 | 9.5 | 828 | 38.3 | 6131 | ***65.3*** |
| **2/27/09** | 13.6 | 22.0 | 20.3 | 8.3 | 8.4 | 845 | 48.1 | 10462 | 61.4 |
| **3/18/09** | 17.9 | 27.3 | 21.0 | 8.3 | 7.9 | 878 | 218.7 | 24196 |  |
| **11/5/09** | 14.1 | 24.1 | 20.7 | 8.4 | 8.0 | 799 | 64.4 | 14136 | 68.4 |
| **11/14/09** | 17 | 19.4 | 19.5 | 8.3 | 8.2 | 765 | 67.7 | 7701 | 59.3 |
| **11/19/09** | 13.6 | 26.5 | 19.6 | 8.3 | 8.3 | 784 | 30.1 | 6488 | 51.2 |
| **11/24/09** | 12.9 | 24.2 | 18.5 | 8.3 | 8.4 | 801 | 34.5 | 5794 | 50.5 |

Numbers shown in red exceed the objective.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©**  **San Timoteo 3**  **Warm Season Monitoring Results** | **PH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 uS/cm** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/14/08** | 0.16 | 37.0 | 29.5 | 8.5 |  | 1055 | 1986.3 | 30760 |  |
| **7/23/08** | 0.18 | 37.1 | 31.3 | 8.5 | 7.3 | 1143 | 387.3 | 98040 |  |
| **7/31/08** | 0.038 | 37.3 | 32.3 | 8.7 | 6.9 | 1058 | 344.8 | >2419.6 |  |
| **8/5/08** | 0 | 33.0 |  |  |  |  |  |  |  |
| **8/13/08** | 0 | 33.6 |  |  |  |  |  |  |  |
| **8/21/08** | 0 | 29.8 |  |  |  |  |  |  |  |
| **8/27/08** | 0 | 33.0 |  |  |  |  |  |  |  |
| **9/6/08** | 0 | 35.3 |  |  |  |  |  |  |  |
| **9/12/08** | 0.32 | 25.8 | 26.0 | 8.4 | 7.3 | 1358 | 11199 | >24196 |  |
| **9/16/08** | 0.79 | 33.2 | 30.5 | 8.5 | 7.7 | 1187 | 24196 | >24196 |  |
| **9/23/08** | 0.29 | 32.0 | 27.6 | 8.3 | 7.4 | 1294 | >24196 | >24196 |  |
| **10/4/08** | 0.58 | 19.9 | 22.2 | 8.5 | 8.1 | 1097 | 579.4 | 41060 |  |
| **10/10/08** | 0.56 | 19.5 | 19.0 | 8.6 | 9.2 | 1097 | 1119.9 | 37840 | ***3641.41*** |
| **10/17/08** | 1.66 | 16.9 | 13.9 | 8.4 | 9.9 | 1077 | 770.1 | 24196 |  |
| **10/26/08** | 1.22 | 33.5 | 24.8 | 8.4 | 7.8 | 1069 | 648.8 | 43520 | ***754.58*** |
| **10/30/08** | 4.41 | 32.0 | 18.2 | 8.4 | 9.0 | 1049 | 3640 | 98040 | 1033.67 |
| **5/9/09** | 3.0 | 32.0 | 29.5 | 8.5 | 7.7 | 939 | 325.5 | 9804 |  |
| **5/15/09** | 4.1 | 33.5 | 30.4 | 8.5 | 7.8 | 949 | 191.8 | 10462 |  |
| **5/22/09** | 3.8 | 23.3 | 23.8 | 8.5 | 7.6 | 930 | 1732.9 | 17329 |  |
| **5/30/09** | 5.0 | 21.0 | 22.5 | 8.5 | 7.9 | 931 | 193.5 | >24196 | ***380.4*** |
| **6/6/09** | 6.8 | 19.3 | 18.8 | 8.5 | 9.1 | 926 | 613.1 | 24196 | 418.5 |
| **6/12/09** | 13.6 | 20.2 | 20.2 | 8.5 | 8.4 | 901 | 547.5 | 17329 | 464.3 |
| **6/19/09** | 3.6 | 33.3 | 30.6 | 8.5 | 6.3 | 932 | 285.1 | 9208 | 502.7 |
| **6/26/09** | 9.0 | 30.0 | 26.8 | 8.4 | 7.1 | 910 |  |  |  |
| **7/2/09** | 6.4 | 33.7 | 30.5 | 8.4 | 6.9 | 915 | 648.8 | 68670 | ***499.2*** |
| **7/10/09** | 3.4 | 29.3 | 27.7 | 8.4 | 7.3 | 954 | 1413.6 | 48840 | ***615.1*** |
| **7/15/09** | 1.5 | 32.0 | 27.4 | 8.4 | 7.3 | 944 | 1299.7 | 61310 | ***763.5*** |
| **7/23/09** | 1.1 | 33.4 | 28.2 | 8.3 | 7.5 | 961 | 1553.1 | 198630 | ***1166.5*** |
| **7/30/09** | 0.9 | 31.3 | 28.6 | 8.3 | 6.7 | 970 | 686.7 | >24196 | 1049.2 |
| **8/7/09** | 0.9 | 28.7 | 26.2 | 8.3 | 7.3 | 985 | 1119.9 | >241960 | 1170.2 |
| **8/13/09** |  | 32.9 | 25.0 | 8.3 | 7.3 | 992 | 1553.1 | 241960 | 1192.4 |
| **8/20/09** | 1.2 | 32.4 | 25.4 | 8.2 | 7.9 | 985 | 980.4 | 241960 | 1127.1 |
| **8/28/09** | 1.1 | 39.4 | 25.6 | 8.2 | 6.7 | 962 |  |  |  |
| **9/3/09** | 1.8 | 36.1 | 23.8 | 8.2 | 7.2 | 986 | 1553.1 | 241960 | ***1275.7*** |
| **9/4/09** | 2.2 | 35.4 | 24.3 | 8.1 | 7.7 | 981 | 1119.9 | 241960 | 1242.9 |
| **9/11/09** | 1.4 | 36.1 | 24.2 | 8.2 | 7.0 | 1000 | 1413.6 | 173290 | 1302.15 |
| **9/16/09** | 1.8 | 30.2 | 22.1 | 8.2 | 7.0 | 1000 | 1986.3 | 98040 | 1367.83 |
| **9/24/09** | 1 | 32.7 | 20.6 | 8.2 | 8.1 | 968 | 1203.3 | 64880 | 1425.0 |
| **10/1/09** | 0.6 | 30.9 | 20.3 | 8.2 | 7.9 | 988 | 1986.3 | 36540 | 1496.9 |
| **10/8/09** | 4.2 | 21.0 | 17.8 | 8.4 | 8.3 | 945 | 1986.3 | 77010 | 1678.7 |
| **10/17/09** | 5.1 | 34.6 | 22.6 | 8.4 | 8.0 | 925 | 2419.6 | 173290 | ***1841.0*** |
| **10/23/09** | 2.1 | 31.5 | 21.4 | 8.4 | 7.8 | 934 | 1732.9 | 41060 | 1818.8 |
| **10/28/09** | 2.5 | 14.8 | 13.7 | 8.4 | 10.0 | 917 | 547.5 | 43520 | 1553.8 |

**San Timoteo 3**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **PH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean[[2]](#footnote-2)** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **12/1/08** | - | 25.0 | 13.0 | 8.4 | 10.7 | 939 | 4570 | 141360 |  |
| **12/12/08** | 15 | 17.7 | 16.4 | 8.5 | 9.3 | 956 | 275.5 | 24196 |  |
| **12/20/08** | flooded | 12.0 | 9.2 | 8.4 | 11.2 | 868 | 72700 | >241960 |  |
| **1/2/09** | 0 | 17.1 | 17.0 | 8.4 | 8.9 | 944 | 206.4 | 11199 |  |
| **1/10/09** | 0 | 21.0 | 17.2 | 8.5 | 9.4 | 957 | 106.7 | 24196 | ***814.95*** |
| **1/12/09** | 0 | 27.0 | 16.5 | 8.4 | 9.7 | 1058 | 648.8 | 41060 | ***1009.55*** |
| **1/20/09** | flooded (est. 20 cfs) | 25.2 | 14.3 | 8.4 | 9.7 | 964 | 387.3 | 24196 | ***272.75*** |
| **1/29/09** | 9.1 | 20.0 | 12.8 | 8.1 | 9.4 | 975 | 1333 | 41060 | 374.60 |
| **2/3/09** | 14 | 25.0 | 14.9 | 8.4 |  | 940 | 248.2 | 30760 | 388.68 |
| **2/13/09** |  |  |  |  |  |  |  |  |  |
| **2/19/09** | 15.7 |  | 14.0 | 8.4 | 10.1 | 769 | 209.8 | 19863 |  |
| **2/27/09** | 12.7 | 19.5 | 19.8 | 8.3 | 9.5 | 927 | 517.2 | >24196 | ***435.29*** |
| **3/18/09** | 13.3 | 26.6 | 21.0 | 8.4 | 9.1 | 951 | 167 | 21870 |  |
| **11/5/09** | 4.2 | 21.1 | 18.0 | 8.4 | 8.8 | 903 | 980.4 | 24196 | 1349.2 |
| **11/14/09** | 5.9 | 16.6 | 16.6 | 8.4 | 9.0 | 859 | 579.4 | 24196 | 1054.5 |
| **11/19/09** | 5.2 | 24.6 | 17.3 | 8.4 | 9.1 | 883 | 166.4 | 19863 | 617.4 |
| **11/24/09** | 4.7 | 22.0 | 15.8 | 8.4 | 9.2 | 887 | 290.9 | 23820 | 432 |

Numbers shown in red exceed the objective.

**San Timoteo 4**

**WarmSeason Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow rate (cfs)** | **Air Temp ©** | **Water temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E.coli*** | **Total coliform** | ***E.coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 uS/cm** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/14/08** | 0.84 | 38.0 | 30.5 | 10.3 |  | 486 | 727 | 19863 |  |
| **7/23/08** | 3.55 | - | 34.8 | 9.2 | 9.5 | 784 | 2419.6 | 129970 |  |
| **7/31/08** | 0.49 | 35.3 | 33.5 | 10.6 | 10.5 | 557 | 34.5 | >2419.6 |  |
| **8/5/08** | 1.13 | 35.2 | 33.3 | 10.3 | 10.4 | 498 | >2419.6 | >2419.6 |  |
| **8/13/08** | 0.99 | 35.2 | 29.1 | 10.2 | 11.3 | 500 | 770.1 | >2419.6 | ***464.96*** |
| **8/21/08** | 1.25 | 32.8 | 32.2 | 10.5 |  | 461 | 71.4 | 12997 | ***18.83*** |
| **8/27/08** | 0.8 | 35.5 | 32.9 | 10.6 | 11.0 | 516 | 28.1 | 8164 | ***85.45*** |
| **9/6/08** | 1.33 | 34.9 | 28.5 | 10.5 | 8.7 | 466 | 579.4 | 12033 | ***172.97*** |
| **9/12/08** | 0.18 | 24.4 | 24.5 | 10.8 | 8.1 | 712 | 123.4 | >2419.6 | 161.68 |
| **9/16/08** | 0.66 | 36.0 | 31.3 | 10.7 | 10.0 | 584 | 54.6 | 6488 | 95.23 |
| **9/23/08** | 0.1 | 32.5 | 26.6 | 10.5 | 9.9 | 552 | 461.1 | >2419.6 | 138.29 |
| **10/4/08** | 1.65 | 19.0 | 20.5 | 9.7 | 9.4 | 551 | 1119.9 | 54750 | 289.00 |
| **10/10/08** | 2.24 | 22.1 | 21.7 | 9.7 | 14.2 | 547 | 1553.1 | 81640 | 351.99 |
| **10/17/08** | 2.48 | 28.0 | 17.6 | 9.3 | 14.5 | 640 | 1046.2 | 92080 | 539.75 |
| **10/26/08** | 3.74 | 36.5 | 26.2 | 10.8 | 15.5 | 656 | 770.1 | 22550 | 916.36 |
| **10/30/08** | 3.41 | 31.4 | 25.4 | 10.5 | 16.5 | 625 | 980.4 | 30760 | 1065.59 |
| **5/9/09** | 4.4 | 31.5 | 30.5 | 9.8 | 7.3 | 827 | 579.4 | 2419.6 |  |
| **5/15/09** | 6.3 | 35.1 | 31.7 | 10.0 | 9.7 | 765 | 410.6 | 1986.3 |  |
| **5/22/09** | 5.1 | 26.0 | 27.2 | 9.0 | 8.5 | 864 | 1935 | 15531 |  |
| **5/30/09** | 5.9 | 24.2 | 24.8 | 9.8 | 14.3 | 835 | 517.2 | 1732.9 | ***698.53*** |
| **6/6/09** | 5.9 | 20.6 | 20.1 | 9.6 | 11.9 | 917 | 435.2 | 15531 | 635.5 |
| **6/12/09** | 10.2 | 19.9 | 19.7 | 9.2 | 9.7 | 842 | 1046.2 | 24196 | 715.2 |
| **6/19/09** | 5.4 | 34.6 | 33.6 | 9.5 | 10.1 | 844 | 325.5 | 15531 | 682.7 |
| **6/26/09** | 6.2 | 32.3 | 30.7 | 9.4 | 8.4 | 845 |  |  |  |
| **7/2/09** | 5.2 | 35.4 | 34.3 | 10.4 | 13.5 | 795 | 28.8 | 920.8 | ***255.6*** |
| **7/10/09** | 2.5 | 33.1 | 30.1 | 9.6 | 11.5 | 802 | 648.8 | 24810 | ***282.4*** |
| **7/15/09** | 1.7 | 34.2 | 32.4 | 9.6 | 10.7 | 663 | 517.2 | 19863 | ***236.8*** |
| **7/23/09** | 3.7 | 36.7 | 31.9 | 9.7 | 11.8 | 629 | 1119.9 | 22820 | ***322.5*** |
| **7/30/09** | 1.5 |  | 34.1 | 10.7 | 9.9 | 874 | <1 | 149.7 | 322.5 |
| **8/7/09** | 0.9 | 29.7 | 31.5 | 10.7 | 10.5 | 799 | 6.3 | 1732.9 | 220.6 |
| **8/13/09** | 2.3 | 34.6 | 31.8 | 10.1 | 12.3 | 805 | 75.4 | 9804 | 128.8 |
| **8/20/09** | 1.6 | 34.2 | 32.2 | 10.1 | 11.8 | 642 | 166.4 | 9208 | 97.0 |
| **8/28/09** | 0.7 | 41.7 | 34.2 | 10.5 | 9.3 | 774 |  |  |  |
| **9/3/09** | 0.9 | 40.1 | 33.1 | 10.6 | 10.0 | 748 | <10 | 3255 | ***29.8*** |
| **9/4/09** | 1.4 | 38.6 | 33.2 | 9.3 | 10.2 | 643 | 1732.9 | 17329 | 67.2 |
| **9/11/09** | 0.8 | 36.2 | 32.0 | 10.8 | 9.8 | 851 | 1 | 63.8 | 46.5 |
| **9/16/09** | 0.8 | 31.3 | 30.8 | 10.4 | 9.7 | 615 | 261.3 | 2098 | 59.6 |
| **9/24/09** | 1 | 39.4 | 30.4 | 10.3 | 12.2 | 669 | 344.1 | 1413.6 | 111.7 |
| **10/1/09** | 3.5 | 33.7 | 30.4 | 10.7 | 10.6 | 698 | 6.2 | 1956 | 62.7 |
| **10/8/09** | 3.4 | 24.5 | 25.4 | 9.9 | 13.3 | 701 | 1046.2 | 34480 | 56.6 |
| **10/17/09** | 3.6 | 37.6 | 29.9 | 10.2 | 14.1 | 712 | 201.4 | 24196 | ***145.6*** |
| **10/23/09** | 3.4 | 34.2 | 27.2 | 10.5 | 12.9 | 791 | 613.1 | 7270 | 194.1 |
| **10/28/09** | 3.3 | 19.1 | 17.0 | 9.6 | 13.1 | 839 | 228.2 | 17329 | 178.8 |

**San Timoteo 4**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow rate (cfs)** | **Air Temp ©** | **Water temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean[[3]](#footnote-3)** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **> 5 mg/L** | **462 uS/cm** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **12/1/08** | 8.19 | 25.0 | 17.5 | 9.0 | 12.7 | 841 | 2590 | 81640 |  |
| **12/12/08** | 7.8 | 17.7 | 13.6 | 9.2 | 11.2 | 913 | 547.5 | 5475 |  |
| **12/20/08** | 11.9 | 14.0 | 11.3 | 8.6 |  | 807 | 24196 | >241960 |  |
| **1/2/09** | 12.30 | 14.4 | 13.8 | 9.2 | 10.7 | 853 | 290.9 | 51720 |  |
| **1/10/09** | 7.9 | 20.0 | 13.4 | 9.4 | 11.9 | 824 | 133.4 | 32550 | ***846.75*** |
| **1/12/09** | 15.7 | 27.4 | 17.6 | 9.2 | 13.1 | 976 | 461.1 | 51720 | 749.83 |
| **1/20/09** | 13 | 26.0 | 17.3 | 9.6 | 17.2 | 822 | 209.8 | 19863 | ***247.53*** |
| **1/29/09** | 9.6 | - | 14.9 | 9.2 | 14.5 | 853 | 579.4 | 23820 | 293.42 |
| **2/3/09** | 10.7 | 26.6 | 19.3 | 9.4 | 14.4 | 819 | 218.7 | 26130 | 277.15 |
| **2/13/09** |  |  |  |  |  |  |  |  |  |
| **2/19/09** | 9.5 | 20.5 | 17.4 | 9.1 | 12.1 | 813 | 461.1 | 24196 |  |
| **2/27/09** | 9.3 | 20.7 | 22.0 | 9.1 | 12.4 | 897 | 1119.9 | >24196 | ***505.77*** |
| **3/18/09** | 9.3 | 26.0 | 21.4 | 8.7 | 8.1 | 935 | 344.8 | 39680 |  |
| **11/5/09** | 3.9 | 25.0 | 22.9 | 10.2 | 15.1 | 1372 | 689.3 | 19863 | 458.8 |
| **11/14/09** | 5.7 | 19.2 | 20.7 | 9.6 | 13.2 | 727 | 547.5 | >24196 | 403.0 |
| **11/19/09** | 6.3 | 26.2 | 20.0 | 9.6 | 12.6 | 771 | 1299.7 | 27550 | 585.2 |
| **11/24/09** | 5.8 | 24.2 | 18.6 | 10.0 | 15.0 | 774 | 157.6 | 17329 | 446 |

Numbers shown in red exceed the objective.

**Warm Creek 1**

**Warm Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geomean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/17/08** | 0.97 | 30.6 | 26.3 | 8.8 |  | 1025 | 2 | 6867 |  |
| **7/21/08** | 1.01 | 39.4 | 27.0 | 8.8 |  | 899 | 21.3 | 4611 |  |
| **7/30/08** | 0.64 | 28.7 | 23.3 | 8.6 | 8.3 | 1015 | 76.7 | >2419.6 |  |
| **8/7/08** | 0.50 | 30.5 | 24.3 | 8.6 | 8.2 | 1091 | 31.3 | >2419.6 | ***17.88*** |
| **8/11/08** | 0.76 | 27.6 | 24.1 | 8.6 | 8.3 | 1043 | 103.9 | >2419.6 | 25.43 |
| **8/22/08** | 0.46 | 25.3 | 25.0 | 8.7 | 8.1 | 1148 | 42 | >2419.6 | ***56.89*** |
| **8/26/08** | 0.60 | 34.6 | 26.9 | 8.8 | 7.9 | 1168 | 78.9 | >2419.6 | 60.74 |
| **9/4/08** | 0.00 | 40.4 | 33.0 | 9.1 | 6.9 | 1190 | 12.1 | >2419.6 | 41.98 |
| **9/10/08** | 0.22 | 28.8 | 24.9 | 9.0 | 8.9 | 1190 | 18.7 | >2419.6 | 37.87 |
| **9/14/08** | 0.51 | 37.7 | 30.0 | 8.9 | 8.2 | 1121 | 28.5 | >2419.6 | 29.24 |
| **9/25/08** | 0.31 | 32.0 | 23.0 | 8.5 | 8.8 | 1018 | 15.5 | >2419.6 | 23.95 |
| **10/3/08** | 0.07 | 30.7 | 27.2 | 9.0 | 7.1 | 1184 | 28.5 | >2419.6 | 19.54 |
| **10/9/08** | 0.61 | 30.0 | 20.7 | 8.5 | 9.3 | 1128 | 9.8 | 15531 | 18.73 |
| **10/16/08** | 0.53 | 29.0 | 20.0 | 8.5 | 9.2 | 1124 | 4.1 | 17329 | ***11.54*** |
| **10/25/08** | 0.18 | 33.4 | 25.6 | 8.8 | 7.4 | 1154 | 5.2 | >2419.6 | 9.84 |
| **5/8/09** | 2.5 | 26.9 | 21.6 | 8.4 | 8.5 | 804 | 47.3 | 1986.3 |  |
| **5/14/09** | 3.6 | 30.4 | 23.4 | 8.6 | 8.7 | 887 | 24.3 | 10462 |  |
| **5/21/09** | 3.3 | 24.6 | 21.7 | 8.5 | 9.5 | 926 | 613.1 | 19863 |  |
| **5/27/09** | 4.4 | 15.4 | 19.7 | 8.3 | 8.5 | 901 | 73.3 | 14136 | ***84.78*** |
| **6/5/09** | 4.9 | 18.6 | 20.3 | 8.5 | 9.4 | 891 | 38.4 | 9208 | 72.4 |
| **6/9/09** | 4.4 | 15.7 | 20.2 | 8.3 | 8.9 | 862 | 31.3 | 12033 | 66.6 |
| **6/18/09** | 3.8 | 29.4 | 25.0 | 8.6 | 8.7 | 892 | 14.8 | 5794 | 60.3 |
| **6/25/09** | 1.4 | 28.2 | 23.2 | 8.5 | 8.4 | 977 | 35.9 | 8664 | 34.2 |
| **7/1/09** | 0.9 | 27.8 | 23.6 | 8.4 | 8.8 | 1080 | 52.1 | 7701 | 31.9 |
| **7/9/09** | 0.4 | 29.0 | 22.9 | 8.4 | 8.4 | 1161 | 46.4 | 12033 | ***33.7*** |
| **7/14/09** | 3.3 | 32.1 | 23.2 | 8.2 | 7.0 | 824 | 167 | 24196 | 46.4 |
| **7/22/09** | 0.1 | 32.3 | 23.3 | 8.3 | 8.6 | 1368 | 41 | >24196 | 56.9 |
| **7/29/09** | 0.1 | 30.4 | 26.7 | 8.6 | 7.8 | 1237 | 88.2 | 19863 | 68.1 |
| **8/6/09** | 0.1 | 26.3 | 23.3 | 8.4 | 7.2 | 1236 | 104.6 | 19863 | 78.2 |
| **8/12/09** | 0.1 | 27.6 | 24.4 | 8.5 | 8.5 | 1257 | 91.1 | 77010 | 89.5 |
| **8/18/09** | 0.1 | 31.0 | 26.0 | 8.7 | 7.4 | 1265 | 40.4 | 19863 | 67.4 |
| **8/27/09** | 0.1 | 38.0 | 27.1 | 8.6 | 6.6 | 1265 | 41 | 46110 | 67.4 |
| **9/2/09** | 0.1 | 35.9 | 27.2 | 8.5 | 8.0 | 1280 | 613.1 | 48840 | 99.3 |
| **9/10/09** | 0.1 | 31.8 | 24.9 | 8.5 | 8.0 | 1293 | 193.5 | 15531 | 112.4 |
| **9/15/09** | 30.4 | 23.3 | 23.5 | 7.6 | 7.3 | 481 | 547.5 | 155310 | 160.8 |
| **9/23/09** | 0 | 32.1 |  |  |  |  |  |  |  |
| **9/30/09** | 0 | 31.3 |  |  |  |  |  |  |  |
| **10/6/09** | 0 | 20.0 |  |  |  |  |  |  |  |
| **10/16/09** | 0 | 31.9 |  |  |  |  |  |  |  |
| **10/21/09** | 0 | 23.6 |  |  |  |  |  |  |  |
| **10/27/09** | 0 | 22.2 |  |  |  |  |  |  |  |
| **10/30/09** | 0 | 18.4 |  |  |  |  |  |  |  |

**Warm Creek 1**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geomean** |
| **Objective** | **-** | **-** | **<25.6** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **11/1/08** | 0.26 | 26.4 | 22.9 | 8.7 | 8.2 | 1134 | 37.7 | 17329 | 11.76 |
| **12/5/08** | 2.48 | 14.8 | 15.9 | 8.4 | 9.4 | 908 | 52.1 | 11199 |  |
| **12/9/08** | 2.33 | 17.7 | 15.0 | 8.4 | 9.8 | 869 | 8.6 | 7701 |  |
| **12/19/08** | 8.40 | 13.2 | 13.0 | 8.3 | 10.2 | 684 | 12.1 | 2419.6 |  |
| **1/6/09** | 4.20 | 14.0 | 13.0 | 8.3 | 9.8 | 713 | 10.9 | 3448 |  |
| **1/16/09** | 3.50 | 21.9 | 17.1 | 8.4 | 9.4 | 781 | 3.1 | 2723 |  |
| **1/30/09** | 4.20 | 26.6 | 18.2 | 8.7 | 10.0 | 731 | 19.9 | 6867 |  |
| **2/2/09** | 4.10 | 22.5 | 15.6 | 8.6 | 10.2 | 742 | 22.8 | 1553.1 | ***11.13*** |
| **2/12/09** | 11.40 | 10.0 | 11.4 | 8.3 | 10.9 | 469 | 23.1 | 2909 | ***13.43*** |
| **2/21/09** | 11.8 | 26.0 | 15.5 | 8.3 | 9.7 | 460 |  |  |  |
| **2/26/09** | 9.00 | 11.5 | 12.8 | 8.3 | 9.6 | 523 | 24.3 | 1986.3 | ***22.46*** |
| **3/20/09** | 6.40 | 26.5 | 20.8 | 8.6 | 10.5 | 639 | 16.1 | 3076 |  |
| **11/4/09** | 0 | 31.1 |  |  |  |  |  |  |  |
| **11/12/09** | 0 | 23.2 |  |  |  |  |  |  |  |
| **11/18/09** | 0 | 21.1 |  |  |  |  |  |  |  |
| **11/23/09** | 0 | 23.1 |  |  |  |  |  |  |  |

Results in red exceed objectives.

Geomeans in bold italics represent results from 4 samples in 30 days.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Flow Rate (cfs)** | **Air Temp ©**  **Warm Creek 2**  **Warm Season Monitoring Results** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/17/08** | 0 |  |  |  |  |  | <1.0 | 116.2 |  |
| **7/21/08** | 0 |  |  |  |  |  |  |  |  |
| **7/30/08** | 0 | 27.6 | 33.8 | 9.2 |  |  | 56.3 | >2419.6 |  |
| **8/7/08** | 0 | 32.5 | 32.6 | 9.1 |  | 1946.5 | 81.3 | >2419.6 |  |
| **8/11/08** | 0 | 34.4 | 33.0 | 10.4 |  | 805 | <1.0 | 7.5 |  |
| **8/22/08** | 0 | 30.3 | 32.0 | 10.2 |  | 635 | 3.1 | >24196 |  |
| **8/26/08** | 0 | 35.0 | 34.6 | 10.2 |  | 818 | 2 | >2419.6 | ***12.98*** |
| **9/4/08** | 0 | 38.5 |  |  |  |  |  | - |  |
| **9/10/08** | 0 | 30.6 | 34.3 | 10.2 | 9.3 | 1030 | 62.7 | 365.4 |  |
| **9/14/08** | 0 |  |  |  |  |  |  | - |  |
| **9/25/08** | 0 | 31.0 | 28.4 | 10.1 | 8 | 880 | 2419.6 | >2419.6 |  |
| **10/3/08** | 0 |  |  |  |  |  |  | - |  |
| **10/9/08** | 0 | 31.5 | 27.6 | 10.0 | 9 | 837 | 10462 | >2419.6 |  |
| **10/16/08** | NO ACCESS |  |  |  |  |  |  |  |  |
| **10/25/08** | NO ACCESS | 33.0 |  |  |  |  |  | - |  |
| **5/8/09** | 0 | 28.0 | 32.2 | 9.5 | 9.0 | 914 | 37.3 | 15531 |  |
| **5/14/09** | 0 | 30.0 |  |  |  |  |  |  |  |
| **5/21/09** | 0 | 23.4 | 22.3 | 8.6 | 9.0 | 2160 | 2613 | >24196 |  |
| **5/27/09** | 0 | 19.0 | 19.8 | 8.5 | 9.0 | 2420 | 4611 | >24196 |  |
| **6/5/09** | 0 |  | 22.1 | 9.0 | 8.0 | 1711 | 4884 | >24196 | ***1217.2*** |
| **6/9/09** | 0 | 18.7 | 21.9 | 8.8 | 10.0 | 1915 | 14136 | 120330 | ***5370.4*** |
| **6/18/09** | 0 | 27.6 | 22.2 | 8.5 | 8.0 | 781 | 1299.7 | >24196 | 4043.7 |
| **6/25/09** | 0 | 28.4 |  |  |  |  |  |  |  |
| **7/1/09** | 0 | 28.9 | 23.0 | 8.2 | 5.0 | 2750 | 19863 | >241960 | ***6497.5*** |
| **7/9/09** | 0 | 29.3 | 22.1 | 8.1 | 8.0 | 1710 | 2489 | >241960 | ***5489.8*** |
| **7/14/09** | 0 | 29.1 | 24.4 | 8.1 | 6.0 | 1145 | 2909 | >241960 | ***3697.6*** |
| **7/22/09** | 0 | 30.3 | 25.3 | 8.2 | 6.4 | 1654 | 2909 | >241960 | ***4522.6*** |
| **7/29/09** | 0 | 28.9 | 27.1 | 8.5 | 5.0 | 5490 | 727 | 173290 | 3137.7 |
| **8/6/09** | 0 |  | 25.2 | 8.5 |  | 4500 | 19863 | >241960 | 3137.7 |
| **8/12/09** | 0 | 28.9 | 23.5 | 8.3 | 4.5 | 2060 | 727 | 54750 | 2453.1 |
| **8/18/09** | 0 | 27.7 | 23.1 | 8.6 | 5.0 | 2170 | 5794 | 57940 | 2815.6 |
| **8/27/09** | 0 | 35.6 | 27.8 | 9.3 | 6.0 | 1806 | 88.2 | >241960 | 1399.3 |
| **9/2/09** | 0 | 35.3 | 27.8 | 8.2 | 7 | 1831 | 48840 | 173290 | 3246.1 |
| **9/10/09** | 0 | 29.2 | 25.3 | 8.3 | 6 | 951 | 46110 | >241960 | 3841.6 |
| **9/15/09** | 0 | 24.1 | 21.4 | 8.0 | 4 | 1432 | 15531 | >241960 | 7086.7 |
| **9/23/09** | 0 | 33.2 | 21.9 | 7.7 | 3.5 | 1245 | 613.1 | 46110 | 4522.2 |
| **9/30/09** | 0 | 28.9 |  |  |  |  |  |  |  |
| **10/6/09** | 0 | 18.2 | 16.0 | 8.0 | 5 | 1008 | 648.8 | 19863 | ***4108.3*** |
| **10/16/09** | 0 | 32.7 | 21.8 | 7.7 | 4 | 861 | 43520 | >241960 | ***4049.3*** |
| **10/21/09** | 0 | 23.8 | 17.1 | 7.8 | 4 | 1003 |  |  |  |
| **10/27/09** | 0 | 22.6 | 18.9 | 9.8 | 10 | 2843 | 20.9 | 1011.2 |  |
| **10/30/09** | 0 | 17.3 | 12.2 | 7.9 | 5 | 957 | >241960 | >241960 |  |

**Warm Creek 2**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **>5 mg/L** | **462 uS/cm** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **11/1/08** | NO ACCESS |  |  |  |  |  |  |  |  |
| **12/5/08** | 0 | 21.4 | 11.2 | 8.8 | 10 | 534 | 2419.6 | >2419.6 |  |
| **12/9/08** | 0 | 25.0 | 20.9 | 10.3 | 10 | 496 | 90.8 | 3873 |  |
| **12/19/08** | 0 | 15.1 | 20.8 | 8.8 | 7 | 311 | 11 | 3654 |  |
| **1/6/09** | 0 | 13.0 | 10.5 | 8.6 | 8 | 2620 | 8.6 | 3448 |  |
| **1/16/09** | 0 | 23.2 | 22.8 | 8.2 | 6 | 727 | 1203.3 | >24196 |  |
| **1/30/09** | 0 | 26.0 | 27.9 | 8.6 | 9 | 684 | 770.1 | >24196 |  |
| **2/2/09** | 0 | 24.0 | 14.9 | 8.5 |  | 780 | 7270 | >24196 | ***490.61*** |
| **2/12/09** | 0 | 12.6 | 15.7 | 8.5 | 8 | 475 | 2613 | >24196 | ***2048.32*** |
| **2/21/09** | 0 |  |  |  |  |  |  |  |  |
| **2/26/09** | 0 | 15.0 | 18.7 | 8.7 | 10 | 1636 | 1553.1 | 8664 | ***2183.26*** |
| **3/20/09** | 0 | 28.0 | 31.0 | 10.2 | 10 | 2250 | 5.2 | 387.3 |  |
| **11/4/09** | 0 | 28.2 | 18.1 | 8.0 | 5 | 684.6 | 24196 | 198630 | ***1943.9*** |
| **11/12/09** | 0 | 21.4 | 15.6 | 7.8 | 5 | 910 | 980.4 | 24196 | ***2155.2*** |
| **11/18/09** | 0 | 18.6 | 12.8 | 8.2 | 6 | 904 | 5475 | 129970 | ***1283.6*** |
| **11/23/09** | 0 | 21.7 | 13.4 | 8.2 | 6 | 853 | 1299.7 | 38730 | ***3604.5*** |

Results in red exceed objectives.

Geomeans in bold italics are results from 4 samples in 30 days.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©**  **Warm Creek 3**  **Warm Season Monitoring Results** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/17/08** | 3.16 | 32.0 | 27.2 | 9.0 |  | 593 | 249.5 | 111990 |  |
| **7/21/08** | 4.36 | 36.7 | 27.6 | 9.0 |  | 552 | 53.8 | >24196 |  |
| **7/30/08** | 0.224 | 23.4 | 24.4 | 10.6 |  | 820 | 40.6 | >2419.6 |  |
| **8/7/08** | 0.116 | 30.5 | 31.5 | 10.1 |  | 463 | 139.6 | >2419.6 | ***93.39*** |
| **8/11/08** |  | 27.5 | 30.2 | 9.9 |  | 444 | 18.7 | >2419.6 | 67.71 |
| **8/22/08** | 0.001 | 26.0 | 30.0 | 10.8 |  | 695 | 2 | 435.2 | ***21.46*** |
| **8/26/08** | 0.002 | 32.2 | 33.3 | 10.7 |  | 685 | <1.0 | 387.3 |  |
| **9/4/08** | 0 | 39.0 |  |  |  |  |  |  |  |
| **9/10/08** | 0.12 | 25.8 | 32.5 | 10.7 | 10.2 | 624 | <1.0 | 365.4 |  |
| **9/14/08** | 0 |  |  |  |  |  |  |  |  |
| **9/25/08** | 0.01 | 31.0 | 26.9 | 10.7 | 9 | 587 | 980.4 | >2419.6 |  |
| **10/3/08** | 0 | 30.0 |  |  |  |  |  |  |  |
| **10/9/08** | 0.13 | 30.0 | 23.5 | 10.8 | 8 | 577 | 721.5 | >2419.6 |  |
| **10/16/08** | 0 | 28.3 | 23.0 | 9.6 | 8.5 | 533 | 54.6 | >2419.6 |  |
| **10/25/08** | 0 | 33.0 |  |  |  |  |  |  |  |
| **5/8/09** | 0 | 27.0 |  |  |  |  |  |  |  |
| **5/14/09** | 0 | 32.0 |  |  |  |  |  |  |  |
| **5/21/09** | 0 | 25.0 |  |  |  |  |  |  |  |
| **5/27/09** | 0 | 15.4 |  |  |  |  |  |  |  |
| **6/5/09** | 0 | 20.0 |  |  |  |  |  |  |  |
| **6/9/09** | 0.2 | 18.0 | 20.0 | 10.4 | 8.0 | 362 | 547.5 | 61310 |  |
| **6/18/09** | 0 | 30.0 |  |  |  |  |  |  |  |
| **6/25/09** | 0 | 28.0 |  |  |  |  |  |  |  |
| **7/1/09** | 0 | 28.0 |  |  |  |  |  |  |  |
| **7/9/09** | 0 | 29.7 | 32.6 | 9.0 | 8.0 | 565 | <1.0 | 173290 |  |
| **7/14/09** | 0 | 32.3 |  |  |  |  |  |  |  |
| **7/22/09** | 0 | 31.2 |  |  |  |  |  |  |  |
| **7/29/09** | 0.6 | 30.7 | 36.1 | 8.8 | 8.7 | 636 | 3255 | >241960 |  |
| **8/6/09** | 0 | 29.1 |  |  |  |  |  |  |  |
| **8/12/09** | 0.6 | 29.0 | 31.3 | 9.1 | 8.8 | 797 | 3873 | 155310 |  |
| **8/18/09** | 0 | 31.2 |  |  |  |  |  |  |  |
| **8/27/09** | 0 | 38.0 |  |  |  |  |  |  |  |
| **9/2/09** | 1.1 | 37.9 | 33.1 | 8.5 | 8 | 600 | 9804 | 241960 |  |
| **9/10/09** | 0 | 32.1 |  |  |  |  |  |  |  |
| **9/15/09** | 0 | 24.1 |  |  |  |  |  |  |  |
| **9/23/09** | 0 | 33.1 | 26.6 | 9.7 | 10 | 569 | 4884 | >241960 |  |
| **9/30/09** | 0 | 28.7 |  |  |  |  |  |  |  |
| **10/6/09** | 0 | 19.7 |  |  |  |  |  |  |  |
| **10/16/09** | 0 | 34.3 | 30.5 | 10.3 | 8 | 408 | 10.6 | 241960 |  |
| **10/21/09** | 0 | 24.3 | 21.4 | 10.1 | 9 | 456 |  |  |  |
| **10/27/09** | 0 | 22.5 |  |  |  |  |  |  |  |
| **10/30/09** | 0 | 19.9 |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved Oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geo mean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **11/1/08** | 0.05 | 26.1 | 22.3 | 9.7 | 9 | 1264 | 37.6 | >2419.6 |  |
| **12/5/08** | 0 | 12.4 | 11.4 | 8.9 | 8 | 600 | 139.6 | >2419.6 |  |
| **12/9/08** | 0 | 18.0 |  |  |  |  |  |  |  |
| **12/19/08** | 4.3 | 12.3 | 13.7 | 8.5 | 10.67 | 545 | 68.3 | 11199 |  |
| **1/6/09** | 0.03 | 14.0 | 8.7 | 8.6 | 10 | 686 | 6.3 | 19863 |  |
| **1/16/09** | 0.18 | 22.5 | 13.2 | 8.5 | 8 | 766 | 24196 | >24196 |  |
| **1/30/09** | 0 | 26.0 |  |  |  |  |  |  |  |
| **2/2/09** | 0.3 | 24.0 | 19.3 | 8.1 | 7 | 588 | 41 | 677 |  |
| **2/12/09** | 10.1 | 11.0 | 11.5 | 8.4 | 11.7 | 447 | 31.3 | 7270 |  |
| **2/21/09** |  |  |  |  |  |  |  |  |  |
| **2/26/09** | 5.6 | 14.7 | 13.5 | 9.0 | 9 | 514 | 17.3 | 5794 |  |
| **3/20/09** | 0 | 26.5 |  |  |  |  |  |  |  |
| **11/4/09** | 0 | 31.4 |  |  |  |  |  |  |  |
| **11/12/09** | 0 | 23.1 |  |  |  |  |  |  |  |
| **11/18/09** | 0 | 21.9 |  |  |  |  |  |  |  |
| **11/23/09** | 0 | 23.8 |  |  |  |  |  |  |  |

**Warm Creek 3**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©**  **Warm Creek 4**  **Warm Season Monitoring Results** | **pH** | **Dissolved oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geomean** |
| **Objective** | **-** | **-** | **varies** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **7/17/08** | 6.59 | 36.0 | 35.0 | 9.2 |  | 501 | 56.3 | 54750 |  |
| **7/21/08** | 6.57 | 36.3 | 34.0 | 9.4 |  | 411 | 3 | >24196 |  |
| **7/30/08** | 2.498 | 30.6 | 30.9 | 9.4 | 8.9 | 601 | 29.2 | >2419.6 |  |
| **8/7/08** | 5.14 | 35.9 | 34.0 | 9.4 | 9.9 | 603 | 387.3 | >2419.6 | ***37.18*** |
| **8/11/08** | 3.02 | 32.8 | 33.4 | 9.8 | 9.7 | 532 | 10.9 | >2419.6 | 29.09 |
| **8/22/08** | 3.39 | 32.5 | 33.0 | 9.6 | 8.5 | 572 | 307.6 | >2419.6 | ***78.47*** |
| **8/26/08** | 2.86 | 36.8 | 34.9 | 9.6 | 8.5 | 536 | 6.3 | >2419.6 | 47.38 |
| **9/4/08** | 11.81 | 37.5 | 32.0 | 8.9 | 9.6 | 494 | 166.4 | >2419.6 | 67.11 |
| **9/10/08** | 15.43 | 32.0 | 31.4 | 9.1 | 9.1 | 465 | 25.9 | >2419.6 | 39.07 |
| **9/14/08** | 11.08 | 37.1 | 31.1 | 9.5 | 9.0 | 453 | 13.2 | >2419.6 | 40.59 |
| **9/25/08** | 5.72 | 34.7 | 29.7 | 9.3 | 9.9 | 618 | 1986.3 | >2419.6 | 58.95 |
| **10/3/08** | 2.65 | 25.6 | 25.4 | 10.2 | 9.2 | 530 | 20.1 | >2419.6 | 74.35 |
| **10/9/08** | 7.67 | 30.3 | 26.6 | 9.0 | 10.3 | 564 | 1986.3 | >2419.6 | 122.08 |
| **10/16/08** | 3.52 | 32.2 | 24.8 | 8.9 | 8.6 | 618 | 4352 | >2419.6 | ***179.87*** |
| **10/25/08** | 2.6 | 29.4 | 21.8 | 9.9 | 8.9 | 511 | 49.6 | >2419.6 | 443.29 |
| **5/8/09** | 2.6 | 32.0 | 30.2 | 9.3 | 11.2 | 505 | 108.1 | 7701 |  |
| **5/14/09** | 4.1 |  | 32.6 | 9.2 | 9.3 | 664 | 547.5 | >24196 |  |
| **5/21/09** | 3.2 | 27.4 | 30.0 | 9.1 | 9.7 | 625 | 204.6 | >24196 |  |
| **5/27/09** | 12.8 | 20.3 | 22.5 | 8.6 | 9.5 | 586 | 3169 | >24196 | ***442.60*** |
| **6/5/09** | 2.1 | 20.4 | 23.8 | 9.3 | 10.4 | 506 | 172.5 | >24196 | 366.6 |
| **6/9/09** | 3.5 | 18.8 | 21.7 | 9.4 | 9.8 | 508 | 770.1 | >24196 | 542.9 |
| **6/18/09** | 2.1 | 33.9 | 33.5 | 9.6 | 8.1 | 497 | 920.8 | >24196 | 602.4 |
| **6/25/09** | 10.6 | 31.1 | 31.1 | 8.8 | 8.5 | 721 | 2419.6 | >24196 | 987.3 |
| **7/1/09** | 14.2 | 32.0 | 29.0 | 8.8 | 9.5 | 587 | 727 | 32550 | 735.5 |
| **7/9/09** | 3.0 | 32.1 | 34.3 | 9.2 | 9.4 | 522 | 133.3 | 72700 | ***681.7*** |
| **7/14/09** | 1.5 | 35.9 | 32.4 | 9.4 | 9.8 | 521 | 30.9 | 24196 | 367.2 |
| **7/22/09** | 1.4 | 35.2 | 34.4 | 9.5 | 9.5 | 608 | 24.3 | 24196 | 177.5 |
| **7/29/09** | 1.2 | 33.7 | 35.9 | 9.7 | 8.5 | 542 | 8.6 | 24196 | 57.4 |
| **8/6/09** | 1.0 | 29.0 | 32.0 | 9.2 | 8.5 | 481 | 344.8 | 86640 | 49.5 |
| **8/12/09** | 1.1 | 33.7 | 33.3 | 9.4 | 8.1 | 511 | 12.1 | 61310 | 30.6 |
| **8/18/09** | 2.0 | 32.0 | 32.1 | 9.6 | 8.3 | 506 | 17.3 | 24890 | 27.3 |
| **8/27/09** | 3.0 | 41.6 | 35.0 | 9.1 | 7.2 | 514 | 275.5 | 86640 | 44.3 |
| **9/2/09** | 2.0 | 39.9 | 35.3 | 9.3 | 7.7 | 669 | 60.2 | 24196 | 65.4 |
| **9/10/09** | 2.8 | 35.6 | 33.5 | 9.0 | 7.9 | 530 | 579.4 | 104620 | 72.6 |
| **9/15/09** | 1.9 | 29.8 | 32.8 | 9.5 | 7.3 | 537 | 45.9 | 68670 | 94.7 |
| **9/23/09** | 1.7 | 38.1 | 30.5 | 8.9 | 7.3 | 517 | 178.2 | 19863 | 151.0 |
| **9/30/09** | 0.7 | 29.9 | 30.6 | 9.4 | 8.0 | 448 | 71.2 | 14136 | 115.2 |
| **10/6/09** | 1.1 | 24.0 | 26.1 | 9.4 | 8.4 | 490 | 139.6 | 9208 | 136.3 |
| **10/16/09** | 2.4 | 36.0 | 30.7 | 9.6 | 10.8 | 450 | 410.6 | >24196 | ***164.2*** |
| **10/21/09** | 2.3 | 28.7 | 23.9 | 9.3 | 10.6 | 474 |  |  |  |
| **10/27/09** | 2.4 | 23.8 | 22.7 | 9.6 | 10.6 | 427 | 83.9 | >24196 | ***136.0*** |
| **10/30/09** | 2.3 | 22.6 | 18.2 | 9.0 | 10.3 | 407 | 115.3 | 19863 | ***153.5*** |

**Warm Creek 4**

**Cool Season Monitoring Results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATE** | **Flow Rate (cfs)** | **Air Temp ©** | **Water Temp ©** | **pH** | **Dissolved oxygen** | **Electrical conductivity** | ***E. coli*** | **Total coliform** | ***E. coli* geomean** |
| **Objective** | **-** | **-** | **< 25.6** | **6.5-8.5** | **> 5 mg/L** | **462 (uS/cm)** | **235 mpn** | **10000 mpn** | **126 mpn** |
| **11/1/08** | 1.75 | 26.0 | 20.8 | 9.9 | 9.9 | 508 | 93.3 | >2419.6 | 240.47 |
| **12/5/08** | 10.90 | 20.0 | 16.6 | 8.8 | 12.4 | 511 | 121.1 | 24196 |  |
| **12/9/08** | 3.17 | 20.0 | 16.9 | 9.5 | 11.9 | 449 | 387.3 | 19863 |  |
| **12/19/08** | 2 | 14.6 | 15.7 | 9.4 | 10.6 | 242 | 135.4 | 30760 |  |
| **1/6/09** | 2.40 | 13.6 | 16.5 | 9.5 | 12.6 | 480 | 40.8 | >24196 |  |
| **1/16/09** | 2.6 | 24.4 | 21.6 | 9.8 | 13.1 | 456 | 7.4 | 4352 |  |
| **1/30/09** | 10.3 | 26.0 | 25.7 | 9.4 | 12.1 | 664 | 19.5 | 10462 |  |
| **2/2/09** | 9.9 | 25.0 | 24.2 | 9.4 | 10.7 | 646 | 25.3 | 5475 | ***19.65*** |
| **2/12/09** | 12.9 | 14.7 | 17.5 | 8.9 | 11.5 | 427 | 76.3 | 19863 | ***22.97*** |
| **2/21/09** |  |  |  |  |  |  |  |  |  |
| **2/26/09** | 8.8 | 14.3 | 19.5 | 9.5 | 12.8 | 412 | 461.1 | 14136 | ***64.55*** |
| **3/20/09** | 2.4 | 27.5 | 29.0 | 9.8 | 10.6 | 492 | 6.3 | 3873 |  |
| **11/4/09** | 1.7 | 31.8 | 26.1 | 9.7 | 10.8 | 442 | 32.7 | 24196 | 112.6 |
| **11/12/09** | 2 | 23.6 | 21.6 | 9.6 | 11.6 | 434 | 727 | 24196 | 156.7 |
| **11/18/09** | 3 | 24.6 | 21.2 | 9.5 | 11.4 | 429 | 139.6 | 24196 | 126.3 |
| **11/23/09** | 1.5 | 24.8 | 21.1 | 10.1 | 13.8 | 431 | 49.6 | 12033 | 113.7 |

Results in red exceed objectives.  
Geomeans in bold italics are results from 4 samples in 30 days.

1. Geomean is calculated by multiplying the data set (n1, n2, n3…) and taking the nth square root of the product. Geomeans shown in **bold *italics*** are calculated with n=4 dataset and included for illustrative purposes. Other geomeans are calculated with n=5 dataset. [↑](#footnote-ref-1)
2. Geomean is calculated by multiplying the data set (n1, n2, n3…) and taking the nth square root of the product. Geomeans shown in **bold *italics*** are calculated with a n=4 dataset and included for illustrative purposes. Other geomeans are calculated with a n=5 dataset. [↑](#footnote-ref-2)
3. Geomean is calculated by multiplying the data set (n1, n2, n3…) and taking the nth square root of the product. Geomeans shown in **bold *italics*** are calculated with a n=4 dataset and included for illustrative purposes. Other geomeans are calculated with a n=5 dataset. [↑](#footnote-ref-3)