

Appendix D Table 1
Field measurements of water quality

| Site number | Site name | Sample Date | Sampling Time | North (latitude) | West (longitude) | Water Temp C | Spec Cond mS/cm | TDS g/L | DO% | DO mg/L | pH | ORP mV | Turbidity |
|-------------|------------------------------|-------------|---------------|------------------|------------------|--------------|-----------------|---------|---------|---------|---------|---------|-----------|
| 84 | SJR at Garwood Station | 05/01/08 | 7:28 | 37.92819 | -121.32843 | 17.08 | 0.328 | 0.21 | 103.22 | 9.95 | 8.14 | 166.37 | 17.03 |
| 127 | SJR at Brant Bridge | 05/01/08 | 7:03 | 37.86488 | -121.32267 | 16.49 | 0.329 | 0.21 | 96.15 | 9.39 | 7.82 | 163.42 | 15.80 |
| 193 | Stockton WWTP effluent | 05/01/08 | 7:50 | 37.93810 | -121.33580 | - | - | - | - | - | 6.62 | - | 1.33 |
| 194 | SJR at Burns Cutoff | 05/01/08 | 8:25 | 37.94101 | -121.34505 | 17.05 | 0.340 | 0.22 | 101.79 | 9.82 | 7.90 | 160.60 | 18.29 |
| 195 | SJR at Stockton WWTP outfall | 05/01/08 | 7:46 | 37.93805 | -121.33531 | 17.06 | 0.370 | 0.24 | 101.29 | 9.77 | 7.76 | 174.55 | 76.99 |
| 84 | SJR at Garwood Station | 05/02/08 | 8:10 | 37.92819 | -121.32843 | 17.03 | 0.335 | 0.22 | 98.66 | 9.52 | 7.82 | 170.01 | 19.77 |
| 127 | SJR at Brant Bridge | 05/02/08 | 7:48 | 37.86488 | -121.32267 | 16.52 | 0.334 | 0.22 | 95.20 | 9.28 | 7.62 | 169.75 | 19.10 |
| 193 | Stockton WWTP effluent | 05/02/08 | 8:35 | 37.93810 | -121.33580 | - | - | - | - | - | 6.55 | - | 1.41 |
| 194 | SJR at Burns Cutoff | 05/02/08 | 8:57 | 37.94101 | -121.34505 | 17.13 | 0.355 | 0.23 | 98.38 | 9.47 | 7.66 | 166.88 | 18.16 |
| 195 | SJR at Stockton WWTP outfall | 05/02/08 | 8:26 | 37.93805 | -121.33531 | 17.11 | 0.371 | 0.24 | 98.07 | 9.45 | 7.58 | 158.91 | 28.03 |
| 84 | SJR at Garwood Station | 05/03/08 | 9:18 | 37.92819 | -121.32843 | 17.05 | 0.339 | 0.22 | 95.19 | 9.18 | 7.68 | 159.27 | 18.72 |
| 127 | SJR at Brant Bridge | 05/03/08 | 8:51 | 37.86488 | -121.32267 | 16.49 | 0.333 | 0.22 | 94.83 | 9.25 | 7.63 | 156.71 | 19.28 |
| 193 | Stockton WWTP effluent | 05/03/08 | 9:35 | 37.93810 | -121.33580 | - | - | - | - | - | 6.84 | - | 0.80 |
| 194 | SJR at Burns Cutoff | 05/03/08 | 10:02 | 37.94101 | -121.34505 | 17.08 | 0.348 | 0.23 | 92.62 | 8.93 | 7.60 | 160.92 | 20.14 |
| 195 | SJR at Stockton WWTP outfall | 05/03/08 | 9:32 | 37.93805 | -121.33531 | 17.04 | 0.343 | 0.22 | 92.35 | 8.91 | 7.58 | 154.63 | 21.32 |
| 84 | SJR at Garwood Station | 05/04/08 | 9:23 | 37.92819 | -121.32843 | 17.57 | 0.320 | 0.21 | 96.25 | 9.19 | 7.66 | 150.14 | 18.59 |
| 127 | SJR at Brant Bridge | 05/04/08 | 9:01 | 37.86488 | -121.32267 | 17.09 | 0.337 | 0.22 | 97.53 | 9.40 | 7.65 | 137.82 | 18.65 |
| 193 | Stockton WWTP effluent | 05/04/08 | 9:45 | 37.93810 | -121.33580 | - | - | - | - | - | 6.61 | - | 1.16 |
| 194 | SJR at Burns Cutoff | 05/04/08 | 10:10 | 37.94101 | -121.34505 | 17.64 | 0.349 | 0.23 | 94.92 | 9.05 | 7.54 | 169.18 | 20.58 |
| 195 | SJR at Stockton WWTP outfall | 05/04/08 | 9:37 | 37.93805 | -121.33531 | 17.57 | 0.338 | 0.22 | 94.51 | 9.02 | 7.57 | 152.76 | 23.31 |
| 84 | SJR at Garwood Station | 05/05/08 | 9:43 | 37.92819 | -121.32843 | 17.87 | 0.332 | 0.22 | 97.80 | 9.28 | 7.71 | 164.90 | 18.10 |
| 127 | SJR at Brant Bridge | 05/05/08 | 9:24 | 37.86488 | -121.32267 | 17.73 | 0.342 | 0.22 | 101.28 | 9.63 | 7.78 | 162.58 | 17.94 |
| 193 | Stockton WWTP effluent | 05/05/08 | 10:10 | 37.93810 | -121.33580 | 19.60 | - | - | - | - | 7.36 | - | 1.16 |
| 194 | SJR at Burns Cutoff | 05/05/08 | 10:30 | 37.94101 | -121.34505 | 18.06 | 0.361 | 0.23 | 95.26 | 9.00 | 7.55 | 156.53 | 19.94 |
| 195 | SJR at Stockton WWTP outfall | 05/05/08 | 10:04 | 37.93805 | -121.33531 | 18.05 | 0.386 | 0.25 | 95.05 | 8.98 | 7.50 | 159.48 | 20.63 |
| 84 | SJR at Garwood Station | 05/06/08 | 10:41 | 37.92819 | -121.32843 | 18.87 | 0.344 | 0.22 | 104.83 | 9.74 | 7.87 | 159.34 | 16.45 |
| 127 | SJR at Brant Bridge | 05/06/08 | 10:17 | 37.86488 | -121.32267 | 18.51 | 0.355 | 0.23 | 108.28 | 10.14 | 8.02 | 142.82 | 15.56 |
| 193 | Stockton WWTP effluent | 05/06/08 | 11:00 | 37.93810 | -121.33580 | 20.80 | - | - | - | - | 6.63 | - | 1.19 |
| 194 | SJR at Burns Cutoff | 05/06/08 | 11:25 | 37.94101 | -121.34505 | 18.94 | 0.362 | 0.24 | 102.21 | 9.49 | 7.71 | 160.80 | 17.84 |
| 195 | SJR at Stockton WWTP outfall | 05/06/08 | 10:56 | 37.93805 | -121.33531 | 18.90 | 0.364 | 0.24 | 101.56 | 9.43 | 7.67 | 160.83 | 18.80 |
| 84 | SJR at Garwood Station | 05/07/08 | 11:43 | 37.92819 | -121.32843 | 19.35 | 0.341 | 0.22 | 115.17 | 10.60 | 8.31 | 169.50 | 21.69 |
| 127 | SJR at Brant Bridge | 05/07/08 | 11:20 | 37.86488 | -121.32267 | 18.82 | 0.343 | 0.22 | 110.99 | 10.33 | 8.16 | 156.87 | 17.95 |
| 193 | Stockton WWTP effluent | 05/07/08 | 12:05 | 37.93810 | -121.33580 | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow |
| 194 | SJR at Burns Cutoff | 05/07/08 | 12:21 | 37.94101 | -121.34505 | 19.32 | 0.345 | 0.22 | 114.20 | 10.52 | 8.24 | 171.40 | 23.38 |
| 195 | SJR at Stockton WWTP outfall | 05/07/08 | 11:57 | 37.93805 | -121.33531 | 19.28 | 0.346 | 0.22 | 113.50 | 10.46 | 8.22 | 172.73 | 25.28 |
| 84 | SJR at Garwood Station | 05/08/08 | 11:58 | 37.92819 | -121.32843 | 19.49 | 0.328 | 0.21 | 112.79 | 10.35 | 8.18 | 143.57 | 20.98 |
| 127 | SJR at Brant Bridge | 05/08/08 | 11:35 | 37.86488 | -121.32267 | 18.76 | 0.331 | 0.22 | 107.01 | 9.97 | 7.95 | 123.68 | 18.10 |
| 193 | Stockton WWTP effluent | 05/08/08 | 12:15 | 37.93810 | -121.33580 | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow |
| 194 | SJR at Burns Cutoff | 05/08/08 | 12:33 | 37.94101 | -121.34505 | 19.51 | 0.331 | 0.21 | 111.38 | 10.22 | 8.12 | 144.87 | 22.07 |
| 195 | SJR at Stockton WWTP outfall | 05/08/08 | 12:11 | 37.93805 | -121.33531 | 19.46 | 0.330 | 0.21 | 111.31 | 10.22 | 8.13 | 141.79 | 23.31 |

Appendix D Table 1
Field measurements of water quality

| Site number | Site name | Sample Date | Sampling Time | North (latitude) | West (longitude) | Water Temp C | Spec Cond mS/cm | TDS g/L | DO% | DO mg/L | pH | ORP mV | Turbidity |
|-------------|------------------------------|-------------|---------------|------------------|------------------|--------------|-----------------|---------|---------|---------|---------|---------|-----------|
| 84 | SJR at Garwood Station | 05/09/08 | 13:02 | 37.92819 | -121.32843 | 19.53 | 0.329 | 0.21 | 110.89 | 10.17 | 8.02 | 142.56 | 22.97 |
| 127 | SJR at Brant Bridge | 05/09/08 | 12:34 | 37.86488 | -121.32267 | 18.70 | 0.330 | 0.21 | 111.22 | 10.37 | 7.98 | 115.85 | 21.66 |
| 193 | Stockton WWTP effluent | 05/09/08 | 13:23 | 37.93810 | -121.33580 | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow | No Flow |
| 194 | SJR at Burns Cutoff | 05/09/08 | 13:48 | 37.94101 | -121.34505 | 19.51 | 0.330 | 0.21 | 111.55 | 10.23 | 7.99 | 158.39 | 25.07 |
| 195 | SJR at Stockton WWTP outfall | 05/09/08 | 13:18 | 37.93805 | -121.33531 | 19.48 | 0.330 | 0.21 | 111.53 | 10.24 | 8.01 | 144.04 | 24.37 |
| 84 | SJR at Garwood Station | 05/10/08 | 12:45 | 37.92819 | -121.32843 | 19.46 | 0.335 | 0.22 | 115.91 | 10.64 | 8.19 | 181.57 | 22.75 |
| 127 | SJR at Brant Bridge | 05/10/08 | 12:25 | 37.86488 | -121.32267 | 18.75 | 0.340 | 0.22 | 108.87 | 10.14 | 7.92 | 190.69 | 18.67 |
| 193 | Stockton WWTP effluent | 05/10/08 | 13:01 | 37.93810 | -121.33580 | 21.30 | - | - | - | - | 6.66 | - | 1.42 |
| 194 | SJR at Burns Cutoff | 05/10/08 | 13:26 | 37.94101 | -121.34505 | 19.48 | 0.349 | 0.23 | 113.02 | 10.37 | 8.03 | 178.30 | 24.51 |
| 195 | SJR at Stockton WWTP outfall | 05/10/08 | 12:55 | 37.93805 | -121.33531 | 19.40 | 0.349 | 0.23 | 112.64 | 10.36 | 7.96 | 172.34 | 27.47 |
| 84 | SJR at Garwood Station | 05/11/08 | 14:06 | 37.92819 | -121.32843 | 19.74 | 0.335 | 0.22 | 114.09 | 10.42 | 7.98 | 138.79 | 22.33 |
| 127 | SJR at Brant Bridge | 05/11/08 | 13:45 | 37.86488 | -121.32267 | 19.26 | 0.338 | 0.22 | 116.78 | 10.77 | 8.06 | 113.43 | 19.55 |
| 193 | Stockton WWTP effluent | 05/11/08 | 14:15 | 37.93810 | -121.33580 | 22.20 | - | - | - | - | 6.75 | - | 1.42 |
| 194 | SJR at Burns Cutoff | 05/11/08 | 14:38 | 37.94101 | -121.34505 | 19.94 | 0.335 | 0.22 | 115.79 | 10.53 | 7.98 | 147.31 | 24.89 |
| 195 | SJR at Stockton WWTP outfall | 05/11/08 | 14:22 | 37.93805 | -121.33531 | 19.93 | 0.331 | 0.22 | 114.50 | 10.42 | 7.98 | 142.43 | 28.34 |
| 84 | SJR at Garwood Station | 05/12/08 | 15:34 | 37.92819 | -121.32843 | 19.07 | 0.330 | 0.21 | 112.25 | 10.39 | 7.98 | 162.39 | 22.87 |
| 127 | SJR at Brant Bridge | 05/12/08 | 15:14 | 37.86488 | -121.32267 | 19.00 | 0.330 | 0.21 | 118.40 | 10.98 | 8.18 | 135.86 | 21.17 |
| 193 | Stockton WWTP effluent | 05/12/08 | 15:45 | 37.93810 | -121.33580 | 20.50 | - | - | - | - | 6.73 | - | 1.10 |
| 194 | SJR at Burns Cutoff | 05/12/08 | 16:13 | 37.94101 | -121.34505 | 19.21 | 0.343 | 0.22 | 111.25 | 10.27 | 7.89 | 160.85 | 23.97 |
| 195 | SJR at Stockton WWTP outfall | 05/12/08 | 15:54 | 37.93805 | -121.33531 | 19.22 | 0.333 | 0.22 | 111.57 | 10.30 | 7.95 | 160.94 | 24.91 |
| 84 | SJR at Garwood Station | 05/13/08 | 6:17 | 37.92819 | -121.32843 | 18.44 | 0.333 | 0.22 | 102.94 | 9.65 | 8.03 | 141.73 | 24.80 |
| 127 | SJR at Brant Bridge | 05/13/08 | 5:56 | 37.86488 | -121.32267 | 17.90 | 0.324 | 0.21 | 100.37 | 9.51 | 7.91 | 124.24 | 23.51 |
| 193 | Stockton WWTP effluent | 05/13/08 | 6:26 | 37.93810 | -121.33580 | 18.80 | - | - | - | - | 6.62 | - | 0.96 |
| 194 | SJR at Burns Cutoff | 05/13/08 | 6:51 | 37.94101 | -121.34505 | 18.47 | 0.332 | 0.22 | 99.70 | 9.34 | 7.87 | 161.13 | 24.24 |
| 195 | SJR at Stockton WWTP outfall | 05/13/08 | 6:33 | 37.93805 | -121.33531 | 18.45 | 0.326 | 0.21 | 100.14 | 9.39 | 7.90 | 155.61 | 25.63 |
| 84 | SJR at Garwood Station | 05/14/08 | 7:11 | 37.92819 | -121.32843 | 18.78 | 0.334 | 0.22 | 105.82 | 9.85 | 7.91 | 164.90 | 23.21 |
| 127 | SJR at Brant Bridge | 05/14/08 | 6:47 | 37.86488 | -121.32267 | 18.42 | 0.337 | 0.22 | 103.44 | 9.70 | 7.72 | 158.65 | 23.72 |
| 193 | Stockton WWTP effluent | 05/14/08 | 7:23 | 37.93810 | -121.33580 | 20.50 | - | - | - | - | 6.53 | - | 0.65 |
| 194 | SJR at Burns Cutoff | 05/14/08 | 7:50 | 37.94101 | -121.34505 | 18.95 | 0.341 | 0.22 | 103.29 | 9.58 | 7.70 | 172.28 | 23.90 |
| 195 | SJR at Stockton WWTP outfall | 05/14/08 | 7:26 | 37.93805 | -121.33531 | 18.91 | 0.327 | 0.21 | 103.35 | 9.60 | 7.79 | 168.91 | 25.20 |
| 84 | SJR at Garwood Station | 05/15/08 | 8:47 | 37.92819 | -121.32843 | 19.90 | 0.345 | 0.22 | 108.70 | 9.89 | 7.86 | 168.69 | 22.57 |
| 127 | SJR at Brant Bridge | 05/15/08 | 8:19 | 37.86488 | -121.32267 | 19.57 | 0.344 | 0.22 | 103.95 | 9.52 | 7.63 | 166.44 | 23.96 |
| 193 | Stockton WWTP effluent | 05/15/08 | 9:00 | 37.93810 | -121.33580 | 22.40 | - | - | - | - | 6.62 | - | 0.82 |
| 194 | SJR at Burns Cutoff | 05/15/08 | 9:22 | 37.94101 | -121.34505 | 20.08 | 0.360 | 0.23 | 107.18 | 9.72 | 7.70 | 176.05 | 25.64 |
| 195 | SJR at Stockton WWTP outfall | 05/15/08 | 9:05 | 37.93805 | -121.33531 | 20.01 | 0.345 | 0.22 | 107.40 | 9.75 | 7.81 | 172.63 | 28.40 |

Appendix D Table 2
Laboratory measurements of water quality

| Site number | Site name | Sample Date | Sampling Time | Chl-a SM ug/L | Pheophyt on SM ug/L | Algal pigments ug/L | Chl-a TriChrom ug/L | 4.5 Alk, mg CaCO3/L | 8.3 Alk, mg CaCO3/L | Total Organic Carbon, mg/L | Dissolved Organic Carbon, mg/L | VSS, mg/L | TSS, mg/L | Mineral Solids mg/L | Total N, mg/L | NH ₃ -N mg/L | NO ₃ -N mg/L | NO ₂ -N mg/L | PO ₄ P, mg/L | Total P, mg/L | SUVA (L/mg-M) | Chlorine, mg/L |
|-------------|------------------------------|-------------|---------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------------|--------------------------------|-----------|-----------|---------------------|---------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------|---------------|----------------|
| 84 | SJR at Garwood Station | 05/01/08 | 7:28 | 29.4 | 10.1 | 39.5 | 36.8 | 57 | 0 | 3.1 | 2.3 | 6.030 | 36.047 | 30.016 | 1.17 | 0.02 | 0.59 | 0.00 | 0.07 | 0.21 | 2.924 | nd |
| 127 | SJR at Brant Bridge | 05/01/08 | 7:03 | 22.5 | 8.0 | 30.5 | 28.3 | 55 | 0 | 3.0 | 2.5 | 5.216 | 30.268 | 25.053 | 1.06 | 0.00 | 0.55 | 0.01 | 0.07 | 0.22 | 2.566 | nd |
| 193 | Stockton WWTP effluent | 05/01/08 | 7:50 | 4.8 | 5.3 | 10.1 | 8.1 | 83 | 0 | 11.7 | 11.6 | 2.173 | 2.857 | 0.684 | 24.21 | 1.38 | 19.43 | 0.44 | 0.13 | 0.31 | 1.684 | nd |
| 194 | SJR at Burns Cutoff | 05/01/08 | 8:25 | 24.0 | 10.5 | 34.5 | 31.4 | 58 | 0 | 3.5 | 2.9 | 5.620 | 32.592 | 26.972 | 1.77 | 0.03 | 1.27 | 0.02 | 0.09 | 0.26 | 2.695 | nd |
| 195 | SJR at Stockton WWTP outfall | 05/01/08 | 7:46 | 25.1 | 9.9 | 35.0 | 32.1 | 60 | 0 | 3.7 | 3.3 | 3.740 | 27.258 | 23.518 | 2.82 | 0.06 | 2.30 | 0.03 | 0.09 | 0.26 | 2.503 | nd |
| 84 | SJR at Garwood Station | 05/02/08 | 8:10 | 10.7 | 3.1 | 13.8 | 13.1 | 57 | 0 | 2.5 | 2.4 | 5.292 | 33.282 | 38.574 | 1.00 | 0.02 | 0.65 | 0.01 | 0.08 | 0.24 | 3.026 | nd |
| 127 | SJR at Brant Bridge | 05/02/08 | 7:48 | 20.2 | 8.0 | 28.2 | 25.9 | 54 | 0 | 2.3 | 2.2 | 5.275 | 32.231 | 37.505 | 1.10 | 0.02 | 0.62 | 0.01 | 0.08 | 0.24 | 2.946 | nd |
| 193 | Stockton WWTP effluent | 05/02/08 | 8:35 | 4.8 | 5.4 | 10.2 | 8.2 | 79 | 0 | 11.4 | 10.4 | 3.339 | 1.178 | 4.517 | 23.35 | 0.95 | 17.70 | 0.39 | 0.16 | 0.38 | 1.838 | nd |
| 194 | SJR at Burns Cutoff | 05/02/08 | 8:57 | 22.3 | 9.3 | 31.6 | 28.9 | 56 | 0 | 2.8 | 2.7 | 5.200 | 31.580 | 36.781 | 2.16 | 0.04 | 1.13 | 0.02 | 0.09 | 0.23 | 3.003 | 0.06 |
| 195 | SJR at Stockton WWTP outfall | 05/02/08 | 8:26 | 21.2 | 9.5 | 30.7 | 28.0 | 57 | 0 | 2.7 | 2.7 | 5.638 | 31.515 | 37.153 | 3.29 | 0.12 | 2.62 | 0.04 | 0.09 | 0.28 | 2.840 | nd |
| 84 | SJR at Garwood Station | 05/03/08 | 9:18 | 16.6 | 7.2 | 23.8 | 21.8 | 57 | 0 | 2.2 | 2.2 | 5.166 | 36.160 | 30.994 | 1.27 | 0.06 | 0.68 | 0.01 | 0.09 | 0.25 | 2.951 | 0.07 |
| 127 | SJR at Brant Bridge | 05/03/08 | 8:51 | 15.7 | 6.4 | 22.0 | 20.2 | 56 | 0 | 2.1 | 2.2 | 5.470 | 39.964 | 34.495 | 1.18 | 0.02 | 0.69 | 0.01 | 0.07 | 0.38 | 2.779 | 0.11 |
| 193 | Stockton WWTP effluent | 05/03/08 | 9:35 | 2.1 | 2.6 | 4.7 | 3.8 | 85 | 0 | 10.4 | 10.1 | 2.074 | 3.114 | 1.040 | 22.84 | 0.81 | 19.54 | 0.09 | 0.04 | 0.20 | 1.730 | nd |
| 194 | SJR at Burns Cutoff | 05/03/08 | 10:02 | 15.6 | 9.2 | 24.8 | 21.9 | 57 | 0 | 2.7 | 2.5 | 5.046 | 39.364 | 34.318 | 2.17 | 0.12 | 1.19 | 0.01 | 0.10 | 0.27 | 2.879 | nd |
| 195 | SJR at Stockton WWTP outfall | 05/03/08 | 9:32 | 14.7 | 8.6 | 23.2 | 20.5 | 58 | 0 | 3.0 | 2.9 | 5.794 | 40.590 | 34.797 | 1.89 | 0.13 | 1.21 | 0.01 | 0.10 | 0.25 | 2.740 | 0.08 |
| 84 | SJR at Garwood Station | 05/04/08 | 9:23 | 15.0 | 9.3 | 24.3 | 21.3 | 56 | 0 | 2.2 | 2.4 | 4.887 | 38.086 | 33.199 | 1.20 | 0.03 | 0.65 | 0.01 | 0.11 | 0.20 | 1.391 | 0.02 |
| 127 | SJR at Brant Bridge | 05/04/08 | 9:01 | 12.3 | 4.9 | 17.2 | 15.8 | 55 | 0 | 2.2 | 2.2 | 4.740 | 34.588 | 29.848 | 1.22 | 0.02 | 0.57 | 0.01 | 0.10 | 0.25 | 2.182 | 0.11 |
| 193 | Stockton WWTP effluent | 05/04/08 | 9:45 | 5.2 | 6.8 | 12.0 | 9.5 | 94 | 0 | 10.9 | 10.8 | 2.924 | 4.177 | 1.253 | 23.87 | 0.77 | 20.14 | 0.09 | 0.16 | 0.35 | 1.162 | nd |
| 194 | SJR at Burns Cutoff | 05/04/08 | 10:10 | 13.1 | 8.8 | 21.9 | 19.0 | 57 | 0 | 2.6 | 2.8 | 5.071 | 41.603 | 36.532 | 2.26 | 0.08 | 1.57 | 0.01 | 0.09 | 0.22 | 1.776 | 0.06 |
| 195 | SJR at Stockton WWTP outfall | 05/04/08 | 9:37 | 14.4 | 9.3 | 23.7 | 20.7 | 58 | 0 | 2.5 | 2.5 | 5.484 | 42.280 | 36.796 | 3.30 | 0.10 | 2.44 | 0.01 | 0.14 | 0.15 | 1.903 | 0.02 |
| 84 | SJR at Garwood Station | 05/05/08 | 9:43 | 21.3 | 10.6 | 31.9 | 28.7 | 56 | 0 | 3.4 | 2.4 | 5.54 | 36.350 | 30.809 | 1.12 | 0.03 | 0.74 | 0.01 | 0.10 | 0.23 | 3.087 | 0.03 |
| 127 | SJR at Brant Bridge | 05/05/08 | 9:24 | 19.6 | 4.7 | 24.3 | 23.5 | 54 | 0 | 2.8 | 2.2 | 5.35 | 36.929 | 31.581 | 1.19 | 0.02 | 0.70 | 0.01 | 0.07 | 0.21 | 2.946 | 0.08 |
| 193 | Stockton WWTP effluent | 05/05/08 | 10:10 | 2.7 | 3.8 | 6.5 | 5.1 | 94 | 0 | 11.1 | 10.0 | 4.67 | 7.140 | 2.471 | 23.38 | 1.09 | 19.93 | 0.16 | 0.15 | 0.38 | 1.856 | nd |
| 194 | SJR at Burns Cutoff | 05/05/08 | 10:30 | 12.5 | 7.0 | 19.5 | 17.4 | 57 | 0 | 3.4 | 2.6 | 5.51 | 38.733 | 33.219 | 2.08 | 0.06 | 1.27 | 0.03 | 0.14 | 0.23 | 2.864 | 0.14 |
| 195 | SJR at Stockton WWTP outfall | 05/05/08 | 10:04 | 13.3 | 7.0 | 20.3 | 18.2 | 58 | 0 | 3.7 | 2.7 | 5.58 | 40.470 | 34.890 | 3.61 | 0.11 | 2.58 | 0.01 | 0.10 | 0.25 | 2.852 | 0.12 |
| 84 | SJR at Garwood Station | 05/06/08 | 10:41 | | | | | 56 | 0 | 2.9 | 2.4 | 5.404 | 34.494 | 29.090 | 1.18 | 0.00 | 0.31 | 0.01 | 0.07 | 0.19 | 1.891 | nd |
| 127 | SJR at Brant Bridge | 05/06/08 | 10:17 | | | | | 54 | 0 | 2.7 | 2.3 | 5.217 | 28.728 | 23.511 | 1.18 | 0.01 | 0.80 | 0.01 | 0.07 | 0.21 | 1.861 | nd |
| 193 | Stockton WWTP effluent | 05/06/08 | 11:00 | | | samples lost | | 77 | 0 | 11.8 | 10.8 | 3.195 | 4.392 | 1.197 | 23.22 | 1.02 | 20.63 | 0.12 | 0.29 | 0.37 | 1.103 | nd |
| 194 | SJR at Burns Cutoff | 05/06/08 | 11:25 | | | | | 56 | 0 | 3.4 | 2.6 | 5.229 | 35.870 | 30.641 | 2.13 | 0.04 | 1.25 | 0.01 | 0.09 | 0.22 | 1.859 | nd |
| 195 | SJR at Stockton WWTP outfall | 05/06/08 | 10:56 | | | | | 58 | 0 | 3.4 | 2.5 | 5.497 | 36.227 | 30.729 | 2.55 | 0.08 | 1.83 | 0.01 | 0.08 | 0.22 | 1.857 | nd |
| 84 | SJR at Garwood Station | 05/07/08 | 11:43 | 35.7 | 12.8 | 48.5 | 44.9 | 55 | 0 | 2.3 | 2.3 | 5.286 | 37.604 | 32.318 | 1.25 | 0.03 | 0.87 | 0.01 | 0.07 | 0.24 | 1.897 | nd |
| 127 | SJR at Brant Bridge | 05/07/08 | 11:20 | 29.5 | 7.2 | 36.7 | 35.0 | 56 | 0 | 2.2 | 2.2 | 5.006 | 36.151 | 31.145 | 1.14 | 0.03 | 0.69 | 0.01 | 0.05 | 0.21 | 1.833 | 0.04 |
| 193 | Stockton WWTP effluent | 05/07/08 | 12:05 | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow |
| 194 | SJR at Burns Cutoff | 05/07/08 | 12:21 | 23.9 | 8.1 | 32.0 | 29.9 | 56 | 0 | 2.2 | 2.3 | 5.490 | 40.756 | 35.267 | 1.32 | 0.04 | 0.67 | 0.01 | 0.07 | 0.24 | 1.807 | 0.07 |
| 195 | SJR at Stockton WWTP outfall | 05/07/08 | 11:57 | 30.0 | 14.3 | 44.4 | 40.0 | 56 | 0 | 2.2 | 2.3 | 5.912 | 44.177 | 38.264 | 1.16 | 0.02 | 0.68 | 0.01 | 0.07 | 0.31 | 1.840 | nd |
| 84 | SJR at Garwood Station | 05/08/08 | 11:58 | 36.3 | 11.9 | 48.2 | 45.1 | 49 | 0 | 2.8 | 2.2 | 5.265 | 42.352 | 37.087 | 0.77 | 0.04 | 0.45 | 0.01 | 0.05 | 0.27 | 2.686 | 0.08 |
| 127 | SJR at Brant Bridge | 05/08/08 | 11:35 | 20.1 | 4.3 | 24.3 | 23.5 | 54 | 0 | 2.7 | 2.1 | 4.783 | 36.824 | 32.040 | 0.96 | 0.02 | 0.62 | 0.01 | 0.05 | 0.23 | 2.585 | 0.08 |
| 193 | Stockton WWTP effluent | 05/08/08 | 12:15 | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow | no flow |
| 194 | SJR at Burns Cutoff | 05/08/08 | 12:33 | 25.9 | 8.5 | 34.3 | 32.2 | 55 | 0 | 3.0 | 2.2 | 5.677 | 43.552 | 37.875 | 0.91 | 0.02 | 1.09 | 0.01 | 0.06 | 0.22 | 2.629 | 0.08 |
| 195 | SJR at Stockton WWTP outfall | 05/08/08 | 12:11 | 21.0 | 7.3 | 28.3 | 26.4 | 56 | 0 | 2.8 | 2.4 | 5.993 | 48.049 | 42.056 | 0.75 | 0.04 | 0.57 | 0.01 | 0.06 | 0.22 | 2.543 | 0.14 |

Appendix D Table 2
Laboratory measurements of water quality

| Site number | Site name | Sample Date | Sampling Time | Chl-a SM ug/L | Pheophyt on SM ug/L | Algal pigments ug/L | Chl-a TriChrom ug/L | 4.5 Alk, mg CaCO3/L | 8.3 Alk, mg CaCO3/L | Total Organic Carbon, mg/L | Dissolved Organic Carbon, mg/L | VSS, mg/L | TSS, mg/L | Mineral Solids mg/L | Total N, mg/L | NH ₃ -N mg/L | NO ₃ -N mg/L | NO ₂ -N, mg/L | PO ₄ P, mg/L | Total P, mg/L | SUVA (L/mg-M) | Chlorine, mg/L |
|-------------|------------------------------|-------------|---------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------------|--------------------------------|-----------|-----------|---------------------|---------------|-------------------------|-------------------------|--------------------------|-------------------------|---------------|---------------|----------------|
| 84 | SJR at Garwood Station | 05/09/08 | 13:02 | 26.34 | 9.59 | 35.93 | 33.33 | 53 | 0 | 3.130 | 2.217 | 5.219 | 39.187 | 33.967 | 0.74 | 0.01 | 0.50 | 0.01 | 0.06 | 0.20 | 2.652 | 0.13 |
| 127 | SJR at Brant Bridge | 05/09/08 | 12:34 | 28.58 | 5.64 | 34.22 | 33.23 | 53 | 0 | 3.339 | 2.178 | 5.396 | 40.948 | 35.552 | 0.85 | 0.01 | 0.58 | 0.01 | 0.06 | 0.22 | 2.686 | 0.05 |
| 193 | Stockton WWTP effluent | 05/09/08 | 13:23 | No Flow | No Flow | No Flow | No Flow | 94 | 0 | 14.154 | 12.345 | 18.473 | 24.541 | 6.068 | 27.24 | 2.93 | 17.61 | 2.78 | 0.94 | 2.89 | 2.180 | 0.05 |
| 194 | SJR at Burns Cutoff | 05/09/08 | 13:48 | 23.07 | 8.57 | 31.65 | 29.29 | 52 | 0 | 2.993 | 2.223 | 5.512 | 43.601 | 38.089 | 0.77 | 0.02 | 0.63 | 0.01 | 0.11 | 0.19 | 2.824 | 0.09 |
| 195 | SJR at Stockton WWTP outfall | 05/09/08 | 13:18 | 18.61 | 6.43 | 25.04 | 23.40 | 54 | 0 | 2.751 | 2.359 | 5.536 | 42.306 | 36.770 | 0.66 | 0.02 | 0.58 | 0.02 | 0.06 | 0.20 | 2.620 | 0.14 |
| 84 | SJR at Garwood Station | 05/10/08 | 12:45 | 28.22 | 6.40 | 34.62 | 4.38 | 54 | 0 | 2.742 | 2.021 | 5.676 | 38.313 | 32.638 | 0.77 | 0.01 | 0.60 | 0.01 | 0.05 | 0.31 | 2.895 | 0.15 |
| 127 | SJR at Brant Bridge | 05/10/08 | 12:25 | 26.73 | 5.68 | 32.40 | 4.33 | 54 | 0 | 2.884 | 2.025 | 4.689 | 32.991 | 28.302 | 0.78 | 0.01 | 0.53 | 0.01 | 0.05 | 0.22 | 2.804 | 0.11 |
| 193 | Stockton WWTP effluent | 05/10/08 | 13:01 | 1.54 | 1.58 | 3.12 | 0.10 | 80 | 0 | 10.066 | 9.472 | 2.881 | 4.596 | 1.715 | 23.04 | 5.32 | 14.67 | 0.94 | 0.24 | 0.38 | 1.861 | 0.04 |
| 194 | SJR at Burns Cutoff | 05/10/08 | 13:26 | 35.00 | 11.29 | 46.28 | 5.40 | 55 | 0 | 3.282 | 2.240 | 5.460 | 42.032 | 36.572 | 1.25 | 0.12 | 0.84 | 0.02 | 0.06 | 0.28 | 2.915 | 0.16 |
| 195 | SJR at Stockton WWTP outfall | 05/10/08 | 12:55 | 24.89 | 8.15 | 33.03 | 4.02 | 55 | 0 | 2.649 | 2.225 | 6.257 | 48.465 | 42.208 | 1.23 | 0.05 | 0.86 | 0.02 | 0.06 | 0.25 | 2.894 | 0.12 |
| 84 | SJR at Garwood Station | 05/11/08 | 14:06 | 24.87 | 4.40 | 29.27 | 28.63 | 54 | 0 | 2.806 | 1.896 | 5.247 | 36.691 | 31.444 | 0.70 | 0.01 | 0.85 | 0.01 | 0.06 | 0.22 | 3.169 | 0.10 |
| 127 | SJR at Brant Bridge | 05/11/08 | 13:45 | 33.01 | 5.80 | 38.81 | 37.90 | 54 | 0 | 2.540 | 1.865 | 5.017 | 35.071 | 30.054 | 0.74 | 0.02 | 0.73 | 0.01 | 0.05 | 0.32 | 3.196 | 0.13 |
| 193 | Stockton WWTP effluent | 05/11/08 | 14:15 | 7.47 | 2.97 | 10.44 | 9.47 | 101 | 0 | 10.522 | 10.801 | 2.890 | 4.005 | 1.115 | 21.62 | 5.30 | 15.56 | 0.82 | 0.15 | 0.31 | 1.859 | 1.10 |
| 194 | SJR at Burns Cutoff | 05/11/08 | 14:38 | 25.55 | 6.56 | 32.11 | 30.63 | 56 | 0 | 2.766 | 2.013 | 5.391 | 40.278 | 34.887 | 1.18 | 0.09 | 0.84 | 0.01 | 0.06 | 0.25 | 3.363 | 0.16 |
| 195 | SJR at Stockton WWTP outfall | 05/11/08 | 14:22 | 38.20 | 11.64 | 49.84 | 46.93 | 54 | 0 | 2.791 | 1.941 | 6.529 | 48.884 | 42.355 | 1.23 | 0.03 | 0.69 | 0.01 | 0.06 | 0.23 | 3.395 | 0.18 |
| 84 | SJR at Garwood Station | 05/12/08 | 15:34 | 23.59 | 4.81 | 28.41 | 27.53 | 52 | 0 | 2.633 | 2.245 | 5.641 | 37.997 | 32.36 | 1.02 | 0.02 | 1.04 | 0.01 | 0.06 | 0.26 | 2.753 | 0.11 |
| 127 | SJR at Brant Bridge | 05/12/08 | 15:14 | 29.62 | 2.87 | 32.49 | 32.62 | 53 | 0 | 2.079 | 2.097 | 5.442 | 38.887 | 33.44 | 0.77 | 0.02 | 0.74 | 0.01 | 0.10 | 0.26 | 2.856 | 0.06 |
| 193 | Stockton WWTP effluent | 05/12/08 | 15:45 | 7.06 | 1.20 | 8.26 | 7.98 | 91 | 0 | 10.289 | 10.325 | 2.568 | 3.698 | 1.13 | 22.54 | 3.50 | 16.05 | 0.59 | 0.07 | 0.19 | 1.760 | 0.04 |
| 194 | SJR at Burns Cutoff | 05/12/08 | 16:13 | 23.37 | 5.19 | 28.56 | 27.55 | 53 | 0 | 2.717 | 2.445 | 5.434 | 39.197 | 33.76 | 1.31 | 0.06 | 1.06 | 0.03 | 0.06 | 0.24 | 2.675 | 0.11 |
| 195 | SJR at Stockton WWTP outfall | 05/12/08 | 15:54 | 24.41 | 6.73 | 31.14 | 29.56 | 53 | 0 | 3.866 | 2.227 | 6.202 | 47.464 | 41.26 | 0.70 | 0.01 | 0.84 | 0.01 | 0.06 | 0.27 | 2.807 | 0.11 |
| 84 | SJR at Garwood Station | 05/13/08 | 6:17 | 21.26 | 8.04 | 29.30 | 27.08 | 53 | 0 | 2.815 | 2.112 | 5.649 | 46.825 | 41.177 | 0.79 | 0.00 | 0.67 | 0.01 | 0.06 | 0.25 | 3.172 | 0.13 |
| 127 | SJR at Brant Bridge | 05/13/08 | 5:56 | 28.89 | 6.88 | 35.77 | 34.29 | 53 | 0 | 2.574 | 2.097 | 5.563 | 43.930 | 38.368 | 0.84 | 0.01 | 0.63 | 0.01 | 0.05 | 0.22 | 2.961 | 0.10 |
| 193 | Stockton WWTP effluent | 05/13/08 | 6:26 | 6.19 | 1.04 | 7.23 | 7.04 | 83 | 0 | 9.669 | 9.867 | 1.844 | 2.508 | 0.664 | 23.70 | 3.68 | 19.53 | 0.41 | 0.07 | 0.16 | 1.792 | 0.04 |
| 194 | SJR at Burns Cutoff | 05/13/08 | 6:51 | 17.73 | 8.20 | 25.92 | 23.43 | 54 | 0 | 2.596 | 2.343 | 5.449 | 39.886 | 34.437 | 1.21 | 0.04 | 0.81 | 0.01 | 0.06 | 0.26 | 3.031 | 0.09 |
| 195 | SJR at Stockton WWTP outfall | 05/13/08 | 6:33 | 17.52 | 7.22 | 24.74 | 22.70 | 53 | 0 | 2.744 | 2.285 | 5.610 | 46.738 | 41.128 | 1.14 | 0.01 | 0.68 | 0.01 | 0.06 | 0.21 | 3.041 | 0.11 |
| 84 | SJR at Garwood Station | 05/14/08 | 7:11 | 23.89 | 7.24 | 31.14 | 29.35 | 54 | 0 | 2.444 | 1.963 | 5.556 | 42.163 | 36.607 | 1.17 | 0.00 | 0.68 | 0.01 | 0.06 | 0.18 | 3.307 | 0.13 |
| 127 | SJR at Brant Bridge | 05/14/08 | 6:47 | 26.51 | 6.16 | 32.67 | 31.40 | 55 | 0 | 2.646 | 1.946 | 5.799 | 46.321 | 40.522 | 1.25 | 0.00 | 0.71 | 0.01 | 0.06 | 0.23 | 3.386 | 0.08 |
| 193 | Stockton WWTP effluent | 05/14/08 | 7:23 | 4.18 | 0.82 | 5.00 | 4.84 | 69 | 0 | 9.271 | 8.668 | 1.320 | 1.906 | 0.585 | 24.16 | 2.25 | 18.75 | 0.28 | 0.05 | 0.12 | 1.923 | 0.08 |
| 194 | SJR at Burns Cutoff | 05/14/08 | 7:50 | 22.67 | 8.41 | 31.09 | 28.80 | 53 | 0 | 3.108 | 2.342 | 6.459 | 51.503 | 45.044 | 1.82 | 0.04 | 1.35 | 0.03 | 0.07 | 0.28 | 3.276 | 0.06 |
| 195 | SJR at Stockton WWTP outfall | 05/14/08 | 7:26 | 27.34 | 10.27 | 37.61 | 34.80 | 52 | 0 | 2.509 | 2.121 | 5.596 | 44.845 | 39.249 | 1.34 | 0.03 | 0.85 | 0.01 | 0.08 | 0.32 | 3.281 | 0.07 |
| 84 | SJR at Garwood Station | 05/15/08 | 8:47 | 27.46 | 6.81 | 34.27 | 32.81 | 55 | 0 | 2.628 | 1.915 | 5.624 | 40.489 | 34.865 | 1.29 | 0.01 | 0.71 | 0.01 | 0.06 | 0.24 | 3.483 | 0.18 |
| 127 | SJR at Brant Bridge | 05/15/08 | 8:19 | 30.89 | 7.15 | 38.04 | 36.57 | 57 | 0 | 2.604 | 1.801 | 5.596 | 46.125 | 40.529 | 1.24 | 0.03 | 0.60 | 0.01 | 0.06 | 0.22 | 3.225 | 0.16 |
| 193 | Stockton WWTP effluent | 05/15/08 | 9:00 | 4.36 | 1.14 | 5.49 | 5.20 | 70 | 0 | 9.010 | 9.621 | 1.801 | 2.723 | 0.922 | 24.78 | 3.56 | 15.47 | 0.26 | 0.06 | 0.23 | 1.656 | 0.12 |
| 194 | SJR at Burns Cutoff | 05/15/08 | 9:22 | 13.23 | 3.53 | 16.76 | 15.95 | 56 | 0 | 3.304 | 2.299 | 6.135 | 43.090 | 36.955 | 1.90 | 0.03 | 1.27 | 0.01 | 0.08 | 0.25 | 3.119 | 0.12 |
| 195 | SJR at Stockton WWTP outfall | 05/15/08 | 9:05 | 24.03 | 7.11 | 31.14 | 29.42 | 56 | 0 | 2.779 | 2.022 | 6.672 | 52.878 | 46.206 | 1.50 | 0.01 | 0.79 | 0.01 | 0.08 | 0.25 | 3.357 | 0.17 |