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| --- | --- | --- | --- |
|  | **Lake Mendota** | **Trout Bog** | **Sparkling Lake** |
| **Surface area (km2)** | 39.600 | 0.001 | 0.637 |
| **Maximum depth (m)** | 25.3 | 7.9 | 20.0 |
| **Trophic status** | Eutrophic | Humic | Oligotrophic |
| **Location** | Madison, WI USA | Boulder Junction, WI USA | Boulder Junction, WI USA |
| **GPS Coordinates** | 43.1113, -89.4255 | 46.0412, -89.6861 | 46.0091, -89.6695 |
| **Shoreline development** | High | Low | Moderate |
| **Epilimnion sampling depth (m)** | 0-7 m | 0-1.5 m | 0-4 m |
| **Temperature (C)** | 24.61 | 19.51 | 23.33 |
| **Dissolved oxygen (mg/L)** | 9.71 | 5.33 | 9.25 |
| **pH** | 8.64 | 4.03 | 7.52 |
| **Conductivity (uS/cm)** | 608 | 25.87 | 174.54 |
| **Total phosphorus (ug/L)** | 18.81 | 23.17 | 6.44 |
| **Total nitrogen (ug/L)** | 625.83 | 667.98 | 346.46 |
| **Total dissolved phosphorus (ug/L)** | 8.83 | 15.41 | 5.42 |
| **Total dissolved nitrogen (ug/L)** | 506.7 | 587.51 | 305.17 |
| **Chlorophyll (ug/L)** | 6.14 | 14.44 | 1.77 |
| **Phaeophytin (ug/L)** | 0.74 | 1.94 | 3.15 |
| **Bacterial production (cpm)** | 40.72 | 56.60 | 25.26 |
| **Dissolved organic carbon\* (mg/L)** | 4.87 | 20.01 | 3.31 |
| **Secchi depth (m)** | 4.8 | 1.1 | 6.2 |
| **Sampling dates (2016)** | July 14-16 | July 8-10 | July 6-9 |
| **Sunrise/sunset time** | 5:32/20:35 | 5:18/20:49 | 5:17/20:50 |