

Waterworks Lake

Randolph County

2007 DATA



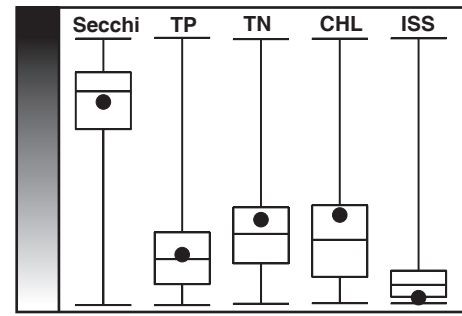
| Date | Secchi (inches) | TP (µg/L) | TN (µg/L) | CHL (µg/L) | ISS (mg/L) |
|-------------|-----------------|-----------|------------|-------------|------------|
| 4/27 | 26 | 56 | 870 | 23.0 | 10.0 |
| 5/16 | 35 | 59 | 790 | 33.0 | 3.4 |
| 6/5 | 75 | 34 | 670 | 7.1 | 0.7 |
| 6/26 | 77 | 26 | 630 | 8.1 | 0.5 |
| 7/23 | 38 | 60 | 950 | 39.8 | 1.5 |
| 8/9 | 58 | 36 | 840 | 16.3 | 0.9 |
| 8/30 | 30 | 73 | 1070 | 37.8 | 1.1 |
| 9/21 | 46 | 24 | 950 | 18.8 | 0.6 |
| Mean | 45 | 43 | 840 | 19.4 | 1.3 |

2007 SUMMARY

Eight samples were collected from late April through late September, 2007. This full season of sampling resulted in a wide range of observations. Secchi transparency values ranged from 26 inches to 77 inches. Chlorophyll ranged nearly sixfold, from 7.1 to 39.8 µg/L. Suspended solids ranged from 0.7 to 10 mg/L.

Despite a rather high suspended sediment concentration in April, sediments were very low throughout the rest of the season.

Nutrient and chlorophyll averages were higher than the statewide average, but sediment concentrations were lower and Secchi transparency was greater.



Relative Rank Graph
See page 11 for details

TRENDS

The higher variability observed this year can be seen in the trend graphs.

While phosphorus concentrations were higher than observed in past years, the 2007 mean is still below the estimated nutrient criteria limit of 58 µg/L.

Two Secchi transparency values were considerably deeper than observed in previous years, reaching more than 6 feet in June.

