## Greenleaf

### Sample Period
- **February 2019 – August 2019**

### Times Visited
- **4**

### Sampling Sites
- **5**

### General
- **Location**: Muskogee County
- **Impoundment**: 1939
- **Area**: 920 acres
- **Capacity**: 14,720 acre-feet
- **Purposes**: Recreation

### Parameters

#### In Situ
- **Average Turbidity**: 7 NTU
- **Average Secchi Disk Depth**: 97 cm
- **Water Clarity Rating**: Good
- **Chlorophyll-a**: 17.76 mg/m³
- **Trophic State Index**: 59
  - Previous value = 58
- **Trophic Class**: Eutrophic

#### Profile
- **Salinity**: 0.0–0.09 ppt
- **Specific Conductivity**: 0.80 – 162 µS/cm
- **pH**: 6.26 – 8.11 pH units
  - 33% of recorded values <6.5
- **Oxidation-Reduction Potential**: 48.6 – 4440.5 mV
- **Dissolved Oxygen**: Up to 61% of water column < 2 mg/L in August

#### Nutrients
- **Surface Total Nitrogen**: 0.36 mg/L to 0.77 mg/L
- **Surface Total Phosphorus**: 0.021 mg/L to 0.037 mg/L
- **Nitrogen to Phosphorus Ratio**: 18:1
  - Phosphorus limited

### Beneficial Uses

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*S = Fully Supporting
NS = Not Supporting
NEI = Not Enough Information

*Standards revision, true color is for permitting purposes only.
*50-70% range is undetermined for DO.

**Notations**
- NTU = nephelometric turbidity units
- µS/cm = microsiemens per centimeter
- E. coli = Escherichia coli
- OWQS = Oklahoma Water Quality Standards
- mg/L = milligrams per liter
- µV = millivolts
- µS/cm = microsiemens/cm
- ppt = parts per thousand
- En = Enterococci

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