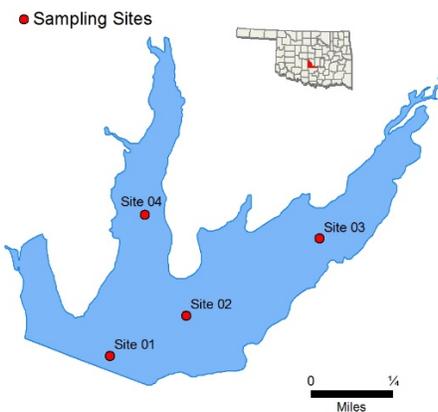


Wiley Post Memorial (Maysville)



| Sample Period | Times Visited | Sampling Sites |
|-----------------------------|---------------|----------------|
| December 2017 – August 2018 | 4 | 4 |

| General | Location | McClain County |
|---------|-------------|---|
| | Impoundment | 1971 |
| | Area | 302 acres |
| | Capacity | 2,086 acre feet |
| | Purposes | Water Supply, Flood Control, and Recreation |

| Parameters | In Situ | Parameter <i>(Descriptions)</i> | Result | Notes/Comments |
|------------|---------------|---------------------------------|---|------------------------------|
| | | Average Turbidity | 55 NTU | 54% of values > 25 NTU |
| | | Average Secchi Disk Depth | 26 cm | |
| | | Water Clarity Rating | Poor | |
| | | Chlorophyll-a | 11.56 mg/m3 | |
| | | Trophic State Index | 55 | Previous value = 58 |
| | Trophic Class | Eutrophic | | |
| | Profile | Salinity | 0.16 – 0.18 ppt | |
| | | Specific Conductivity | 262 – 373.1 µS/cm | |
| | | pH | 7.48 – 8.31 pH units | Neutral to slightly alkaline |
| | | Oxidation-Reduction Potential | 155.3 – 491.2 mV | |
| | | Dissolved Oxygen | Up to 2% of water column < 2 mg/L in June | |
| | Nutrients | Surface Total Nitrogen | 0.755 mg/L to 1.42 mg/L | |
| | | Surface Total Phosphorus | 0.091 mg/L to 0.25 mg/L | |
| | | Nitrogen to Phosphorus Ratio | 7:1 | Phosphorus limited |

| Beneficial Uses | Click to learn more about Beneficial Uses | Turbidity | pH | Dissolved Oxygen | Metals | TSI | True Color | Sulfates | Chlorides | Total Dissolved Solids | Enteroc. & E. coli | Chlor-a |
|--|---|--|----|------------------|--------|-----|------------|----------|-----------|------------------------|--------------------|---------|
| | Fish & Wildlife Propagation | NS | S | NEI | S | | | | | | | |
| | Aesthetics | | | | | S | * | | | | | |
| | Agriculture | | | | | | | S | S | S | | |
| | Primary Body Contact Recreation | | | | | | | | | | S | |
| | Public & Private Water Supply | | | | | | | | | | | |
| <i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i> | | Notes *Standards revision, true color is for permitting purposes only | | | | | | | | | | |

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