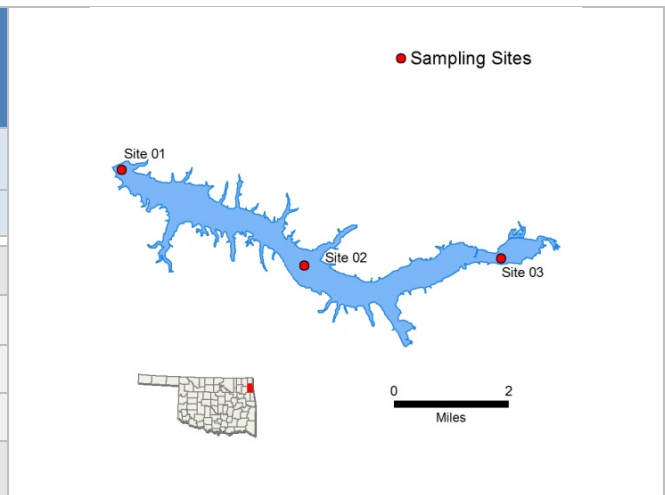


Eucha

| Sample Period | Times Visited | Sampling Sites |
|--------------------------|---------------|----------------|
| October 2017 – July 2018 | 4 | 3 |

| General | Location | Delaware County |
|---------|-------------|--------------------------|
| | Impoundment | 1952 |
| | Area | 2,860 acres |
| | Capacity | 79,600 acre-feet |
| | Purposes | Water Supply, Recreation |



| Parameters | In Situ | Parameter (<i>Descriptions</i>) | Result | Notes/Comments |
|------------|---------------|-----------------------------------|--|---------------------------------|
| | | Average Turbidity | 11 NTU | 100% of values < OWQS of 25 NTU |
| | | Average Secchi Disk Depth | 79 cm | |
| | | Water Clarity Rating | Good | |
| | | Chlorophyll-a | 27.4 mg/m ³ | |
| | | Trophic State Index | 63 | Previous value = 60 |
| | Trophic Class | Hypereutrophic | | |
| | Profile | Salinity | 0.06 – 0.11 ppt | |
| | | Specific Conductivity | 134.2 – 281.2 µS/cm | |
| | | pH | 6.73 – 8.95 pH units | Neutral to moderately alkaline |
| | | Oxidation-Reduction Potential | -10.6 to 433.7 mV | |
| | | Dissolved Oxygen | Up to 84% of water column < 2 mg/L in July | |
| | Nutrients | Surface Total Nitrogen | 0.50 mg/L to 3.34 mg/L | |
| | | Surface Total Phosphorus | 0.020 mg/L to 0.094 mg/L | |
| | | Nitrogen to Phosphorus Ratio | 30:1 | Phosphorus limited |

| Beneficial Uses | Click to learn more about Beneficial Uses | Turbidity | pH | Dissolved Oxygen | Metals | TSI | True Color | Sulfates | Chlorides | Total Dissolved Solids | Enterococci & E. coli | Chlor-a |
|--|---|--|----|------------------|--------|-----|------------|----------|-----------|------------------------|-----------------------|---------|
| | Fish & Wildlife Propagation | S | S | NS | S | | | | | | | |
| | Aesthetics | | | | | NEI | * | | | | | |
| | Agriculture | | | | | | | S | S | S | | |
| | Primary Body Contact Recreation | | | | | | | | | | S | |
| | Public & Private Water Supply | | | | | | | | | | | NS |
| <i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i> | | Notes The lake is currently listed as a Nutrient Limited Watershed (NLW) in the Oklahoma Water Quality Standards (WQS) and is considered nutrient threatened. **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*