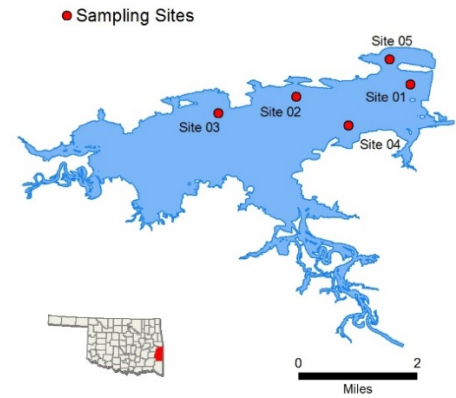


# Wister



Sample Period	Times Visited	Sampling Sites
November 2015 – Sept. 2016	4	5

General	Location	LeFlore County
	Impoundment	1949
	Area	7,333 acres
	Capacity	62,360 acre feet
	Purposes	Flood Control, Water Supply, Low flow Regulation, and Conservation

Parameters	In-Situ	Parameter ( <a href="#">Descriptions</a> )	Result	Notes/Comments
		Average Turbidity	24 NTU	25% of values > OWQS 25 NTU
		Average Secchi Disk Depth	45 cm	
		Water Clarity Rating	Fair	
		Chlorophyll-a	22.13 mg/m <sup>3</sup>	
		Trophic State Index	61	Previous value = 62
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.04 – 0.07 ppt	
		Specific Conductivity	66.6 – 158.7 µS/cm	
		pH	6.00 – 7.80 pH units	2 % of Values < 6.5 pH units
		Oxidation-Reduction Potential	26.9 to 557.3 mV	
		Dissolved Oxygen	Up to 62% of water column < 2 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.585 mg/L to 0.97 mg/L	
		Surface Total Phosphorus	0.042 mg/L to 0.108 mg/L	
		Nitrogen to Phosphorus Ratio	10:1	Phosphorus limited

Beneficial Uses	<a href="#">Click to learn more about Beneficial Uses</a>	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	NS	NEI	S							
	Aesthetics					NEI*	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS

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

**Notes**  
 \*Standards revision, true color is for permitting purposes only.  
 \*Currently, the lake is listed as a Nutrient Limited Watershed (NLW) in the Oklahoma Water Quality Standards (WQS). This listing means that the lake is considered threatened from nutrients until a more intensive study can confirm the Aesthetics beneficial use non-support status.

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