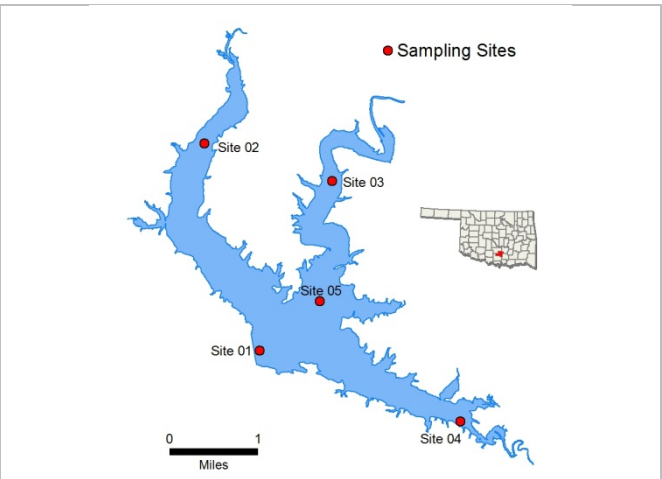


Arbuckle

Sample Period	Times Visited	Sampling Sites
October 2015-July 2016	4	5

General	Location	Murray County
	Impoundment	1967
	Area	2,350 acres
	Capacity	72,400 acre-feet
	Purposes	Water Supply, Flood Control, Fish and Wildlife, and Recreation



Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	4 NTU	0% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	108 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	14.4 mg/m ³	
		Trophic State Index	57	Previous value = 57
	Trophic Class	Eutrophic		
	Profile	Salinity	0.11-0.28 ppt	
		Specific Conductivity	229.1-566.2 µS/cm	
		pH	6.82-8.36 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	-60-466.5 mV	
		Dissolved Oxygen	Up to 71% of water column < 2.0 mg/L in Summer	
	Nutrients	Surface Total Nitrogen	0.46 mg/L to 0.63 mg/L	
		Surface Total Phosphorus	0.018 mg/L to 0.029 mg/L	
		Nitrogen to Phosphorus Ratio	22:1	Phosphorus limited

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

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

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*