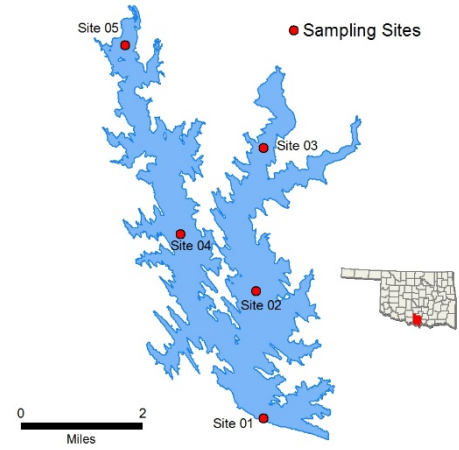


Murray

Sample Period	Times Visited	Sampling Sites
October 2018 – August 2019	4	5

General	Location	Love County
	Impoundment	1937
	Area	5,728 acres
	Capacity	153,250 acre-feet
	Purposes	Recreation



Parameters	In Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	7 NTU	5% of values > OWQS of 25 NTU (n=20)
		Average Secchi Disk Depth	153 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	2.90 mg/m ³	
		Trophic State Index	41	Previous value = 39
	Trophic Class	Mesotrophic		
	Profile	Salinity	0.11 – 0.17 ppt	
		Specific Conductivity	233.0 – 348.4 μS/cm	
		pH	7.05 – 8.34 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	39.7 to 415.8 mV	
		Dissolved Oxygen	Up to 67% of water column < 2.0 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.275 mg/L to 0.635 mg/L	
		Surface Total Phosphorus	0.010 mg/L to 0.049 mg/L	
		Nitrogen to Phosphorus Ratio	22:1	Phosphorus limited

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

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