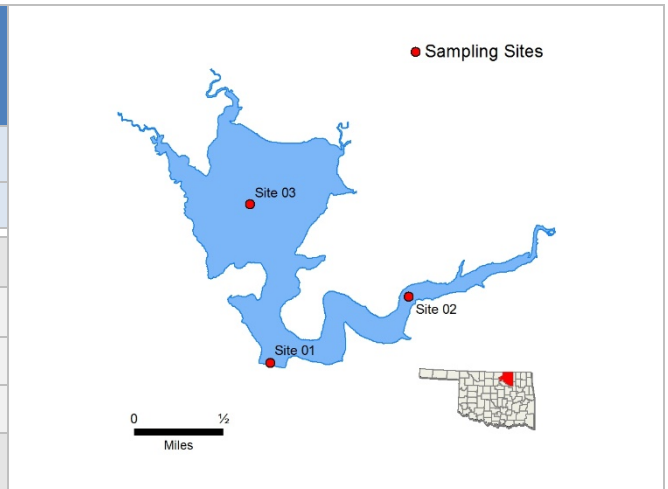


# Shell

Sample Period	Times Visited	Sampling Sites
December 2017 – August 2018	3	3

General	Location	Osage County
	Impoundment	1922
	Area	573 acres
	Capacity	9,500 acre-feet
	Purposes	Water Supply, Recreation



Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	9 NTU	100% of values < OWQS of 25 NTU (n=12)
		Average Secchi Disk Depth	85 cm	
		Water Clarity Rating	Good	
		Chlorophyll-a	14.97 mg/m <sup>3</sup>	
		Trophic State Index	57	Previous value = 54
	Trophic Class	Eutrophic		
	Profile	Salinity	0.08 – 0.12 ppt	
		Specific Conductivity	154.9 – 247.0 μS/cm	
		pH	6.72 – 8.87 pH units	
		Oxidation-Reduction Potential	27 to 505 mV	
		Dissolved Oxygen	Up to 71% of water column < 2.0 mg/L in May	
	Nutrients	Surface Total Nitrogen	0.675 mg/L to 0.90 mg/L	
Surface Total Phosphorus		0.023 mg/L to 0.034 mg/L		
Nitrogen to Phosphorus Ratio		29:1	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	S	S	S	NEI							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply					NEI						

Notes	<p>S = Fully Supporting  NS = Not Supporting  NEI = Not Enough Information</p> <p>*Standards revision, true color is for permitting purposes only</p>
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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