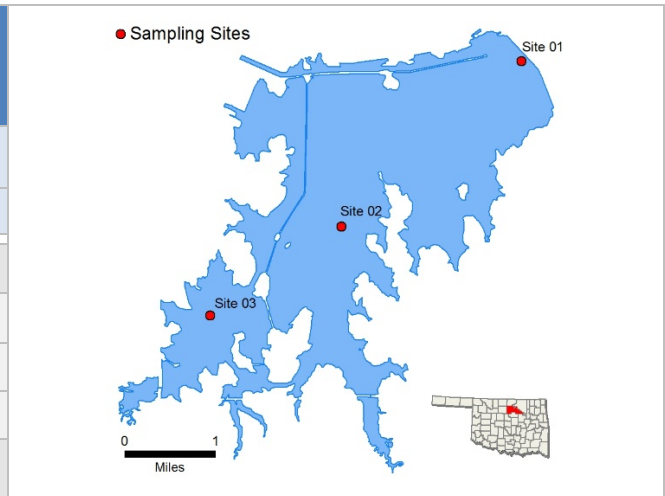


Sooner

Sample Period	Times Visited	Sampling Sites
November 2017 - August 2018	4	3

General	Location	Pawnee County
	Impoundment	1972
	Area	5,400 acres
	Capacity	149,000 acre-feet
	Purposes	Cooling Water



Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	9 NTU	100% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	171 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	6.91 mg/m3	
		Trophic State Index	50	Previous value = 43
	Trophic Class	Mesotrophic		
	Profile	Salinity	1.10 – 1.18 ppt	
		Specific Conductivity	2144.0 – 2318.1 µS/cm	
		pH	7.13 – 8.47 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	55.5 to 505.0 mV	
		Dissolved Oxygen	Up to 45% of water column < 2.0 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.535 mg/L to 0.655 mg/L	
		Surface Total Phosphorus	0.012 mg/L to 0.028 mg/L	
		Nitrogen to Phosphorus Ratio	31:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enteroc. & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NEI	S							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		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