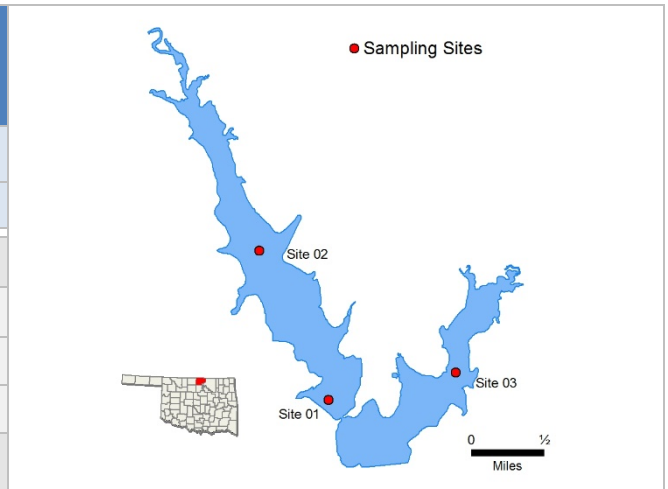


Ponca

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

General	Location	Kay County
	Impoundment	1935
	Area	805 acres
	Capacity	14,440 acre feet
	Purposes	Water Supply and Recreation



Parameters	In-Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	7 NTU	100% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	97 cm	
		Water Clarity Rating	Good	
		Chlorophyll-a	20.26 mg/m ³	
		Trophic State Index	60	Previous value = 60
	Trophic Class	Eutrophic		
	Profile	Salinity	0.13 – 0.19 ppt	
		Specific Conductivity	276.8 – 392.3 μS/cm	
		pH	6.75 – 8.60 pH units	
		Oxidation-Reduction Potential	-8.6 – 484.5 mV	
		Dissolved Oxygen	Up to 73% of water column < 2.0 mg/L in June	
	Nutrients	Surface Total Nitrogen	0.625 mg/L to 0.915 mg/L	
		Surface Total Phosphorus	0.022 mg/L to 0.05 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	S							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS

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