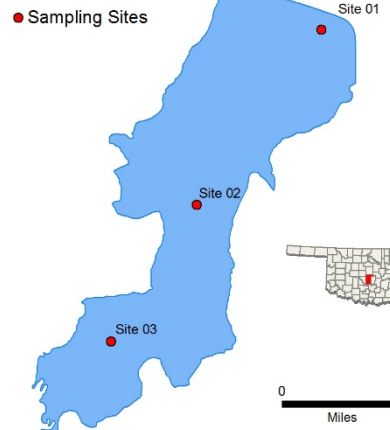


Sooner



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

General	Location	Pottawatomie County
	Impoundment	1934
	Area	127 acres
	Capacity	1,118 acre-feet
	Purposes	Water Supply, and Recreation

Parameters	Parameter (<i>Descriptions</i>)		Result	Notes/Comments
	In Situ	Average Turbidity	50 NTU	75% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	28 cm	
		Water Clarity Rating	Poor	
		Chlorophyll-a	13.76 mg/m ³	
		Trophic State Index	56	Previous value = 49
		Trophic Class	Eutrophic	
	Profile	Salinity	0.12 – 0.14 ppt	
		Specific Conductivity	253.5 – 286.1 μS/cm	
		pH	7.03 – 8.26 pH units	Neutral
		Oxidation-Reduction Potential	70.0 to 565.9 mV	
		Dissolved Oxygen	Up to 8% of water column < 2.0 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.575 mg/L to 1.09 mg/L	
		Surface Total Phosphorus	0.043 mg/L to 0.095 mg/L	
		Nitrogen to Phosphorus Ratio	13:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterro. & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	S	S							
	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