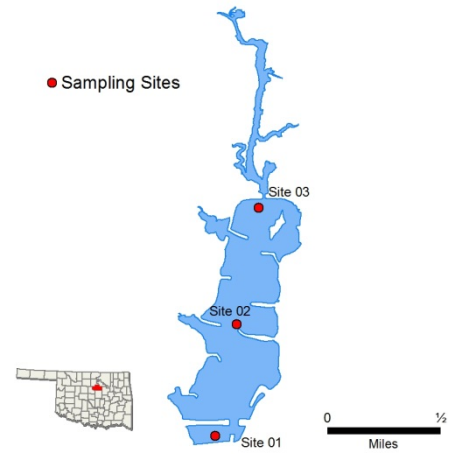


Boomer

Sample Period	Times Visited	Sampling Sites
October 2014 – July 2015	4	3

General	Location	Payne County
	Impoundment	1932
	Area	260 acres
	Capacity	3,200 acre-feet
	Purposes	Cooling Water and Recreation



Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	15 NTU	0% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	37 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	31mg/m ³	
		Trophic State Index	64	Previous value = 59
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.18 - 0.25 ppt	
		Specific Conductivity	377.2 – 516 µS/cm	
		pH	7.03 - 8.53 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	82.1 to 440.4 mV	
		Dissolved Oxygen	Up to 43% of water column < 2.0 mg/L in March	
	Nutrients	Surface Total Nitrogen	0.95 mg/L to 1.52 mg/L	
		Surface Total Phosphorus	0.041 mg/L to 0.074 mg/L	
		Nitrogen to Phosphorus Ratio	21:1	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	NS	S	NS	*							
	Aesthetics					S	*					
	Agriculture							*	*	S		
	Primary Body Contact Recreation										S	NS
	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