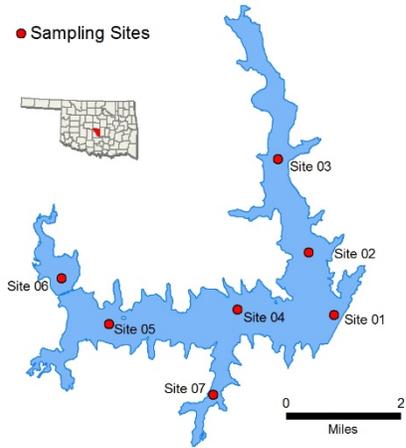


# Thunderbird

Sample Period	Times Visited	Sampling Sites
November 2017 – August 2018	4	7

General	Location	Cleveland County
	Impoundment	1965
	Area	6,070 acres
	Capacity	119,600 acre-feet
	Purposes	Flood Control, Water Supply, Recreation, Fish & Wildlife



Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	14 NTU	4% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	59 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	21 mg/m <sup>3</sup>	
		Trophic State Index	61	Previous value = 56
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.13 – 0.26 ppt	
		Specific Conductivity	281.5 – 530 µS/cm	
		pH	7.14 – 8.68 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	90.2 to 454 mV	
		Dissolved Oxygen	Up to 67% of water column < 2 mg/L in July	Occurred at sites 1, the dam
	Nutrients	Surface Total Nitrogen	0.665 mg/L to 1.025 mg/L	
		Surface Total Phosphorus	0.025 mg/L to 0.104 mg/L	
		Nitrogen to Phosphorus Ratio	23:1	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	Enteroc. & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	NS	S							
	Aesthetics					NEI*	S					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS

S = Fully Supporting  
NS = Not Supporting  
NEI = Not Enough Information

**Notes**  
 \* The lake is listed in the Oklahoma Water Quality Standards (WQS) as a Nutrient Limited watershed (NLW). This listing means that the lake is considered threatened from nutrients until a more intensive study can confirm the Aesthetics beneficial use non-support status.

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