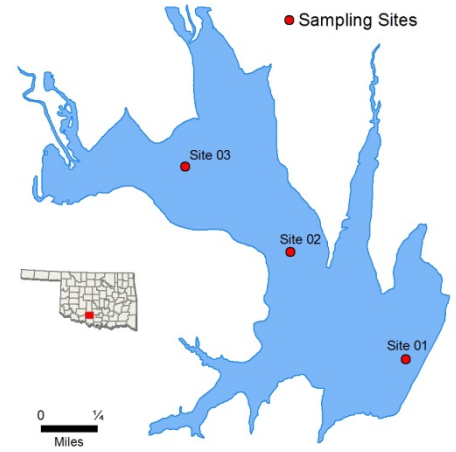


# Humphreys



Sample Period	Times Visited	Sampling Sites
October 2018 – July 2019	4	3

General	Location	Stephens County
	Impoundment	1958
	Area	882 acres
	Capacity	14,041 acre-feet
	Purposes	Water Supply, Flood Control, Recreation

Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	7 NTU	100% of values < OWQS of 25 NTU (n=12)
		Average Secchi Disk Depth	115 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	17.39 mg/m <sup>3</sup>	
		Trophic State Index	59	Previous value = 62
	Trophic Class	Eutrophic		
	Profile	Salinity	0.26 – 0.33 ppt	
		Specific Conductivity	542.9 – 680.5 µS/cm	
		pH	7.23 – 8.36pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	-74.10 – 4442.4 mV	
		Dissolved Oxygen	Up to 53% of water column < 2.0 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.70 mg/L to 1.01 mg/L	
		Surface Total Phosphorus	0.020 mg/L to 0.061 mg/L	
		Nitrogen to Phosphorus Ratio	24:1	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	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	S	S							
	Aesthetics					NEI	*					
	Agriculture							N/A	N/A	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		<b>Notes</b> *Standards revision, true color is for permitting purposes only. *Based on the TSI this lake will be further reviewed to determine the need to be considered as an NLW water body.										

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