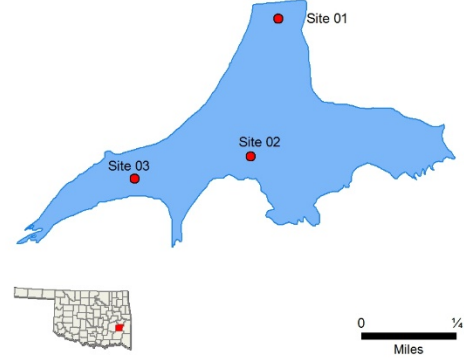


Lloyd Church (Wilburton)

● Sampling Sites



Sample Period	Times Visited	Sampling Sites
December 2018 – August 2019	4	3

General	Location	Latimer County
	Impoundment	1964
	Area	160 acres
	Capacity	3,060 acre-feet
	Purposes	Water Supply, Recreation, Flood Control

Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	10 NTU	100% of values < 25 NTU (n=12)
		Average Secchi Depth	99 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	5.3 mg/m3	
		Trophic State Index	47	Previous value = 46
	Trophic Class	Mesotrophic		
	Profile	Salinity	0.02 – 0.04 ppt	
		Specific Conductivity	42.6 – 82.6 µS/cm	
		pH	6.05 – 7.48 pH units	40% of values <6.5 pH units
		Oxidation-Reduction Potential	76.1 -596.8 mV	
		Dissolved Oxygen	Up to 53% of water column < 2 mg/L in September	
	Nutrients	Surface Total Nitrogen	0.27 mg/L to 0.44 mg/L	
		Surface Total Phosphorus	0.013 mg/L to 0.029 mg/L	
		Nitrogen to Phosphorus Ratio	17:1	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	NS	NEI	S							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		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