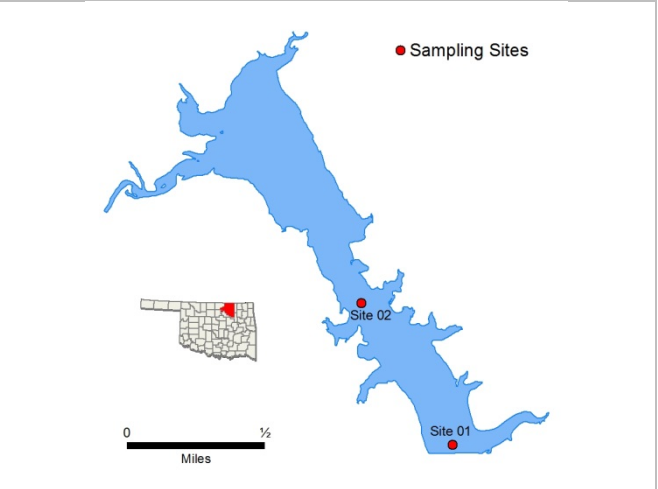


Hudson (Bartlesville)

Sample Period	Times Visited	Sampling Sites
October 2016 – July 2017	4	3

General	Location	Osage County
	Impoundment	1949
	Area	268 acres
	Capacity	2,776 acre-feet
	Purposes	Water Supply, Recreation



Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	15 NTU	13% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	58 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	7.06 mg/m ³	
		Trophic State Index	50	Previous value = 51
	Trophic Class	Mesotrophic		
	Profile	Salinity	0.05 – 0.07 ppt	
		Specific Conductivity	108.7 – 148.6 μS/cm	
		pH	6.69 – 8.51 pH units	
		Oxidation-Reduction Potential	108.7 – 496.8 mV	
		Dissolved Oxygen	Up to 64% of water column < 2.0 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.57 mg/L to 1.03 mg/L	
		Surface Total Phosphorus	0.029 mg/L to 0.074 mg/L	
		Nitrogen to Phosphorus Ratio	15:1	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	S	S	S	S							
	Aesthetics					S	*					
	Agriculture							N/A	N/A	S		
	Primary Body Contact Recreation										NEI	
	Public & Private Water Supply				S							

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