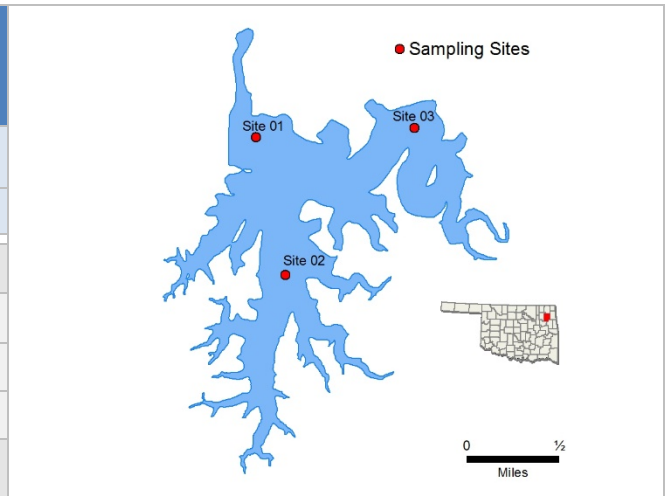


# W.R. Holway

Sample Period	Times Visited	Sampling Sites
November 2015 – August 2016	4	5

General	Location	Mayes County
	Impoundment	1968
	Area	712 acres
	Capacity	48,000 acre-feet
	Purposes	Water Supply, Hydropower, Recreation



Parameters	In-Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	2 NTU	100% of Values < OWQS of 25
		Average Secchi Disk Depth	147 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	18.9 mg/m3	
		Trophic State Index	59	Previous Value= 56
	Trophic Class	Eutrophic		
	Profile	Salinity	0.09 – 0.22 ppt	
		Specific Conductivity	201.8 – 451.2 µS/cm	
		pH	6.66 – 9.00 pH units	
		Oxidation-Reduction Potential	128.5 to 514 mV	
		Dissolved Oxygen	Up to 48% of water column < 2 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.41 mg/L to 0.59mg/L	
		Surface Total Phosphorus	0.042 mg/L to 0.067 mg/L	
		Nitrogen to Phosphorus Ratio	9:1	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	Enterro. & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NS	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