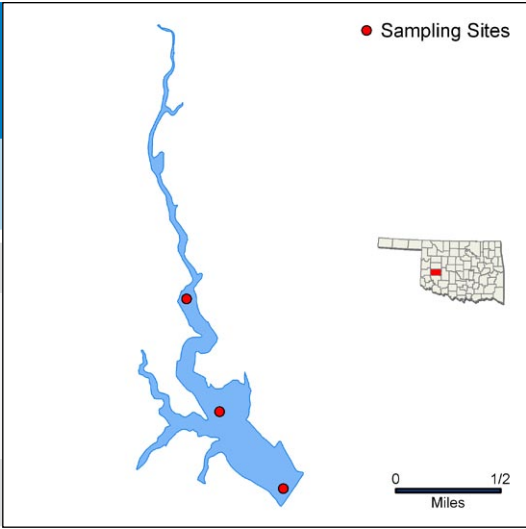


# Crowder

Sample Period	Times Visited	Sampling Sites
November 2005 - August 2006	3	3

Lake Data	Location	Washita County
	Impoundment	1959
	Area	158 acres
	Capacity	2,094 acre-feet
	Purposes	Flood Control, Recreation



Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	9 NTU	100% of values < OWQS of 25 NTU	
	Average True Color	17 units	100% of values < OWQS of 70	
	Average Secchi Disk Depth	65 cm		
	Water Clarity Rating	average		
	Trophic State Index	57		
	Trophic Class	eutrophic		
	Profile	Salinity	0.38– 0.57 ppt	
		Specific Conductivity	744 – 1088 µS/cm	
		pH	7.03– 8.34 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	275- 445 mV	
	Nutrients	Dissolved Oxygen	Up to 37.5% of water column < 2 mg/L in May	Occurred at sites 1 and 2
		Surface Total Nitrogen	0.54 mg/L to 0.93 mg/L	
		Surface Total Phosphorus	0.026 mg/L to 0.053 mg/L	
		Nitrogen to Phosphorus Ratio	21:1	Phosphorus Limited

Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates, Chlorides & TDS	En,ecal coli, & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	S	S				
	Aesthetics					NS*	S		
	Agriculture							S	
	Primary Body Contact Recreation								S
	Public & Private Water Supply								

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

**Notes** \*The lake is listed in the WQS as a NLW indicating that the Aesthetics beneficial use is considered threatened by nutrients until studies can be conducted to confirm 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