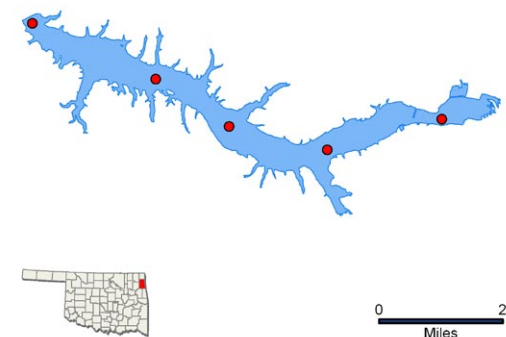


# Eucha

● Sampling Sites

Sample Period	Times Visited	Sampling Sites
November 2006 - August 2007	4	5

Lake Data	Location	Delaware County
	Impoundment	1952
	Area	2,860 acres
	Capacity	79,600 acre-feet
	Purposes	Water Supply, Recreation



Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	4 NTU	100% of values < OWQS of 25 NTU	
	Average True Color	14 units	100% of values < OWQS of 70	
	Average Secchi Disk Depth	151 cm		
	Water Clarity Rating	excellent		
	Trophic State Index	50		
	Trophic Class	mesotrophic		
	Profile	Salinity	0.07 – 0.14 ppt	
		Specific Conductivity	168.2 – 296.3 µS/cm	
		pH	7.15 – 8.76 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	63 to 500 mV	
	Nutrients	Dissolved Oxygen	Up to 71% of water column < 2 mg/L in August	Occurred at sites 1, the dam
		Surface Total Nitrogen	0.36 mg/L to 3.26 mg/L	
Surface Total Phosphorus		0.007 mg/L to 0.050 mg/L		
	Nitrogen to Phosphorus Ratio	71:1	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	NS	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 currently listed as a Nutrient Limited Watershed (NLW) in the Oklahoma Water Quality Standards (WQS) and is considered nutrient threatened.

NTU = nephelometric turbidity units  
 µS/cm = microsiemens per centimeter  
 E. coli = Escherichia coli

OWQS = Oklahoma Water Quality Standards  
 mV = millivolts  
 Chlor-a = Chlorophyll-a

mg/L = milligrams per liter  
 µS/cm = microsiemens/cm

ppt = parts per thousand  
 En = Enterococci