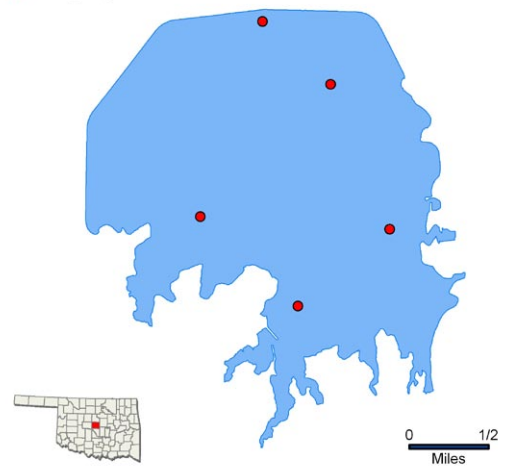


Hefner

● Sampling Sites



Sample Period	Times Visited	Sampling Sites
November 2005 – August 2006	4	5

Lake Data	Location	Oklahoma County
	Impoundment	1947
	Area	2,500 acres
	Capacity	75,000 acre-feet
	Purposes	Water Supply, Recreation

Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	7 NTU	100% of values < OWQS of 25 NTU	
	Average True Color	19 units	100% of values < OWQS of 70	
	Average Secchi Disk Depth	92 cm		
	Water Clarity Rating	good		
	Trophic State Index	63		
	Trophic Class	hypereutrophic		
	Profile	Salinity	0.50– 0.68 ppt	
		Specific Conductivity	959 – 1314 μ S/cm	
		pH	7.77 – 8.68 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	47 – 461 mV	
		Dissolved Oxygen	Up to 50% of water column < 2 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.69 mg/L to 1.06 mg/L	
		Surface Total Phosphorus	0.055 mg/L to 0.120 mg/L	
		Nitrogen to Phosphorus Ratio	10:1	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					S	S		
	Agriculture							S	
	Primary Body Contact Recreation								S
	Public & Private Water Supply								

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

Notes

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

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

mg/L = milligrams per liter
 μ S/cm = microsiemens/cm

ppt = parts per thousand
 En = Enterococci