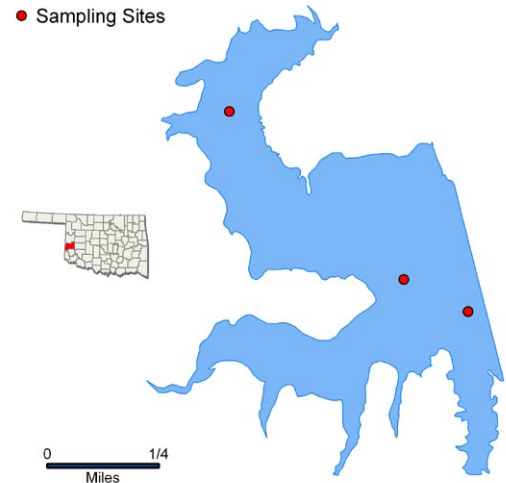


Elk City



Sample Period	Times Visited	Sampling Sites
November 2005 - August 2006	4	3

Lake Data	Location	Beckham County
	Impoundment	1970
	Area	240 acres
	Capacity	2,583 acre-feet
	Purposes	Flood Control, Recreation

Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	15 NTU	100% of values < OWQS of 25 NTU	
	Average True Color	26 units	100% of values < OWQS of 70	
	Average Secchi Disk Depth	56 cm		
	Water Clarity Rating	Fair to poor		
	Trophic State Index	59		
	Trophic Class	eutrophic		
	Profile	Salinity	0.30– 0.39 ppt	
		Specific Conductivity	593.3 – 749.9 μ S/cm	
		pH	7.70– 8.49 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	374 - 448 mV	
	Nutrients	Dissolved Oxygen	Up to 22% of water column < 2 mg/L in May	
		Surface Total Nitrogen	0.74 mg/L to 1.08 mg/L	
Surface Total Phosphorus		0.037 mg/L to 0.067 mg/L		
Nitrogen to Phosphorus Ratio	17:1	Possibly co-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
 μ S/cm = microsiemens per centimeter mV = millivolts μ S/cm = microsiemens/cm En = Enterococci
 E. coli = Escherichia coli Chlor-a = Chlorophyll-a