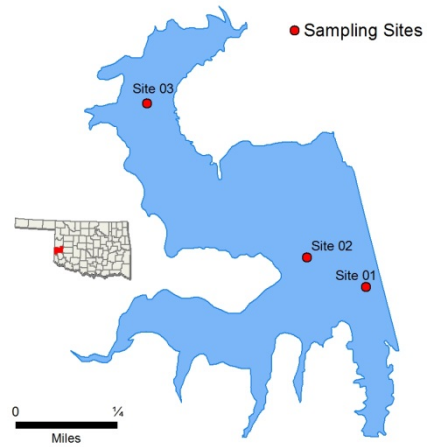


# Elk City



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

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

Parameters	In Situ	Parameter ( <i>Descriptions</i> )	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 $\mu$ S/cm	
		pH	7.70– 8.49 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	374 - 448 mV	
		Dissolved Oxygen	Up to 22% of water column < 2 mg/L in May	
	Nutrients	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	<a href="#">Click to learn more about Beneficial Uses</a>	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterococci & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	S	S							
	Aesthetics					NEI	*					
	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>		<b>Notes</b> *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. *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  
 $\mu$ S/cm = microsiemens per centimeter      mV = millivolts       $\mu$ S/cm = microsiemens/cm      En = Enterococci  
 E. coli = Escherichia coli      Chlor-a = Chlorophyll-a