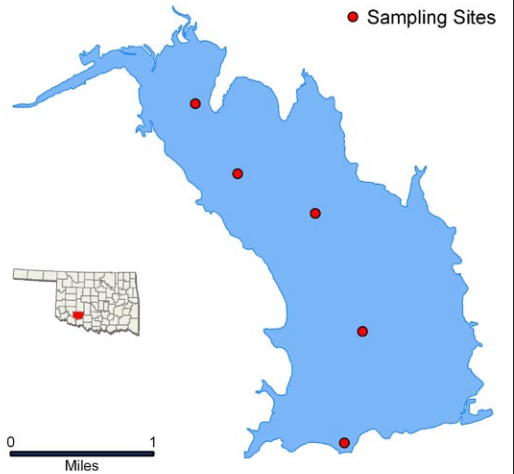


# Lawtonka



Sample Period	Times Visited	Sampling Sites
October 2006 - July 2007	4	5

Lake Data	Location	Comanche County
	Impoundment	1905
	Area	2,398 acres
	Capacity	56,574 acre-feet
	Purposes	Water Supply, Recreation

Parameters	Parameter		Result	Notes/Comments
	Profile	Average Turbidity	8 NTU	100% of values <OWQS of 25 NTU
		Average True Color	26 units	100% of values < OWQS of 70
		Average Secchi Disk Depth	108 cm	
		Water Clarity Rating	Good	
		Trophic State Index	60	
		Trophic Class	eutrophic	
		Nutrients	Salinity	0.11– 0.24 ppt
	Specific Conductivity		225.2 – 469.7 $\mu$ S/cm	
	pH		6.76 – 8.60 pH units	
	Oxidation-Reduction Potential		42 - 419 mV	
	Dissolved Oxygen		Up to 67% of water column < 2 mg/L in July	Occurred at sites 1 and 2
	Nitrogen to Phosphorus Ratio		23:1	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					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  
 $\mu$ 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  
 $\mu$ S/cm = microsiemens/cm  
 ppt = parts per thousand  
 En = Enterococci