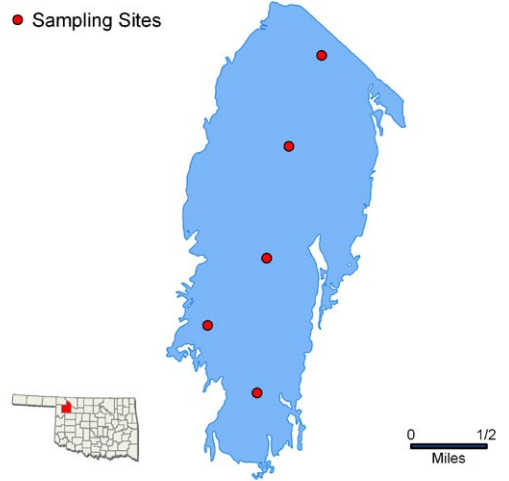


Fort Supply



Sample Period	Times Visited	Sampling Sites
October 2005 - July 2006	4	6

Lake Data	Location	Woodward County
	Impoundment	1942
	Area	1,820 acres
	Capacity	13,900 acre-feet
	Purposes	Flood Control, Conservation Purposes

Parameters	Parameter		Result	Notes/Comments
	Profile	Average Turbidity	45 NTU	74% of values > OWQS of 25 NTU
		Average True Color	46 units	5% of values > OWQS of 70
		Average Secchi Disk Depth	57 cm	
		Water Clarity Rating	Fair to poor	
		Trophic State Index	57	
		Trophic Class	eutrophic	
		Salinity	0.45– 0.55 ppt	
		Specific Conductivity	867.2 – 1053 μ S/cm	
		pH	7.33– 8.39 pH units	
		Oxidation-Reduction Potential	345 - 424 mV	
	Dissolved Oxygen		Not stratified in any quarter	
	Nutrients	Surface Total Nitrogen	0.76 mg/L to 1.36 mg/L	
		Surface Total Phosphorus	0.035 mg/L to 0.126 mg/L	
		Nitrogen to Phosphorus Ratio	12:1	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	NS	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
 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