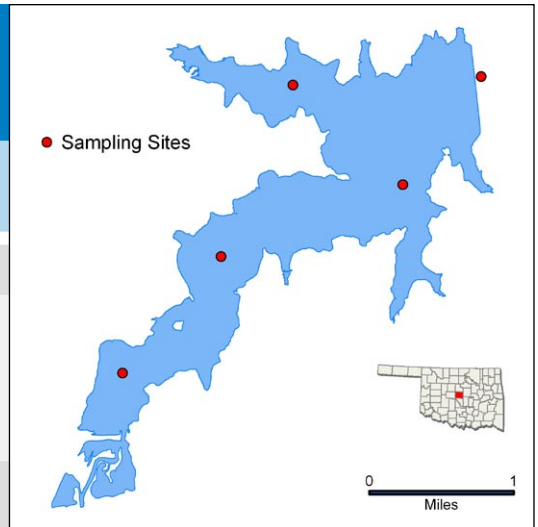


Arcadia



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

Lake Data	Location	Oklahoma County
	Impoundment	1986
	Area	1,820 acres
	Capacity	27,520 acre-feet
	Purposes	Water Supply, Flood Control, Recreation

Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	42 NTU	30% of values > OWQS of 25 NTU	
	Average True Color	53 units	10% of values > OWQS of 70	
	Average Secchi Disk Depth	67 cm		
	Water Clarity Rating	average		
	Trophic State Index	58		
	Trophic Class	eutrophic		
	Profile	Salinity	0.10 – 0.20 ppt	
		Specific Conductivity	209.7 - 422 µS/cm	
		pH	7.32 - 8.47 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	148 to 415 mV	
	Nutrients	Dissolved Oxygen	Up to 38% of water column < 2 mg/L in August	
		Surface Total Nitrogen	0.75 mg/L to 1.85 mg/L	
Surface Total Phosphorus		0.025 mg/L to 0.231 mg/L		
	Nitrogen to Phosphorus Ratio	15:1	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								NEI
	Public & Private Water Supply								

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

Notes The PBCR beneficial use cannot be assessed as minimum data requirement were not met due to QA/QC issues for E.coli and Enterococci. The peaks reported in turbidity & color are due to seasonal storm events and the lake is considered the supporting the Fish and Wildlife Propagation and Aesthetics beneficial uses.

NTU = nephelometric turbidity units
 µS/cm = microsiemens per centimeter
 E. coli = Escherichia coli
 OWQS = Oklahoma Water Quality Standards
 mV = millivolts
 Chlor-a = Chlorophyll-a
 mg/L = milligrams per liter
 µS/cm = microsiemens/cm
 ppt = parts per thousand
 En = Enterococci