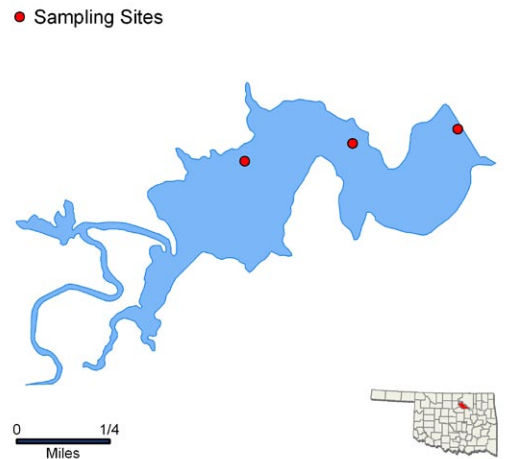


Cleveland City

Sample Period	Times Visited	Sampling Sites
November 2006 - August 2007	4	3

Lake Data	Location	Pawnee County
	Impoundment	1936
	Area	159 acres
	Capacity	2,200 acre-feet
	Purposes	Water Supply, Recreation



Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	17 NTU	8% of values >OWQS of 25 NTU	
	Average True Color	63 units	25% of values > OWQS of 70	
	Average Secchi Disk Depth	56 cm		
	Water Clarity Rating	average		
	Trophic State Index	56		
	Trophic Class	eutrophic		
	Profile	Salinity	0.08 – 0.11 ppt	
		Specific Conductivity	173.3 – 235.3 µS/cm	
		pH	6.93 – 8.64 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	82 to 438 mV	
		Dissolved Oxygen	Up to 70% of water column < 2 mg/L in May	
	Nutrients	Surface Total Nitrogen	0.85 mg/L to 1.24 mg/L	
Surface Total Phosphorus		0.021 mg/L to 0.050 mg/L		
Nitrogen to Phosphorus Ratio		30:1	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								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 enterococci. The peak reported in color is due to seasonal storm events and the lake is considered supporting the Aesthetics beneficial use.

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