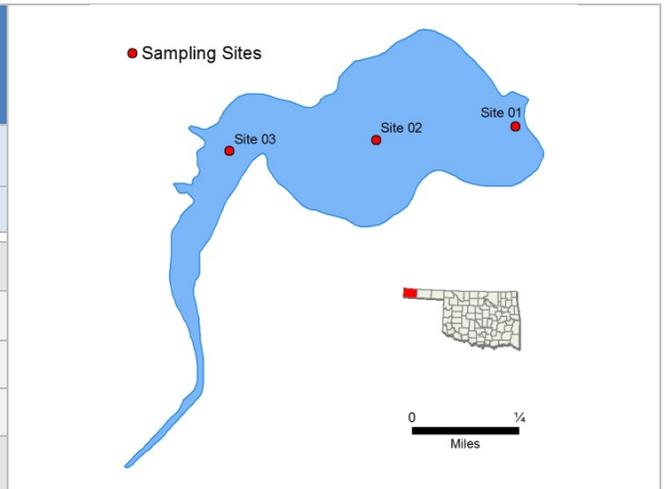


Carl Etling

Sample Period	Times Visited	Sampling Sites
December 2017 – August 2018	3	3

General	Location	Cimarron County
	Impoundment	1958
	Area	159 acres
	Capacity	1717 acre-feet
	Purposes	Recreation



Parameters	Parameter (<i>Descriptions</i>)		Result	Notes/Comments
	In Situ	Average Turbidity	20 NTU	44% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	43 cm	
		Water Clarity Rating	fair	
		Chlorophyll-a	55.57 mg/m ³	
		Trophic State Index	70	Previous value = 68
		Trophic Class	Hypereutrophic	
	Profile	Salinity	0.40 – 0.41 ppt	
		Specific Conductivity	629 – 830.5 µS/cm	
		pH	8.21 – 8.81 pH units	
		Oxidation-Reduction Potential	239.9 – 425.3 mV	
		Dissolved Oxygen		
	Nutrients	Surface Total Nitrogen	1.41 mg/L to 2.56 mg/L	
		Surface Total Phosphorus	0.075 mg/L to 0.176 mg/L	
		Nitrogen to Phosphorus Ratio	17:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterococci & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	NS	S	S							
	Aesthetics					NEI	*					
	Agriculture							NS	NS	NS		
	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.
 **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
 µS/cm = microsiemens per centimeter mV = millivolts µS/cm = microsiemens/cm En = Enterococci
 E. coli = Escherichia coli Chlor-a = Chlorophyll-a