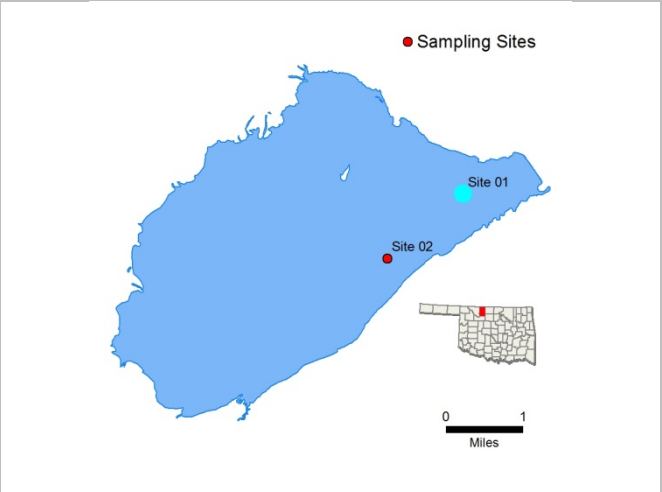


Great Salt Plains

Sample Period	Times Visited	Sampling Sites
October 2018 – July 2019	4	5

General	Location	Alfalfa County
	Impoundment	1941
	Area	8,690 acres
	Capacity	31,240 acre-feet
	Purposes	Flood Control, Conservation



Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	105 NTU	100% of values > OWQS of 25 NTU (n=7)
		Average Secchi Disk Depth	15 cm	
		Water Clarity Rating	Poor	
		Chlorophyll-a	84.87 mg/m ³	
		Trophic State Index	74	Previous value = 76
	Trophic Class	Hypereutrophic		
	Profile	Salinity	1.66– 3.04 ppt	
		Specific Conductivity	3204.8 – 5611.10 µS/cm	
		pH	8.09 – 8.56 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	114.9 – 446.1 mV	
		Dissolved Oxygen		Not stratified at any sampling event
	Nutrients	Surface Total Nitrogen	1.23 mg/L to 2.54 mg/L	
		Surface Total Phosphorus	0.200 mg/L to 1.89 mg/L	
		Nitrogen to Phosphorus Ratio	4:1	possibly co-limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enteroc. & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	S	S							
	Aesthetics					NEI	*	N/A	N/A			
	Agriculture											
	Primary Body Contact Recreation										NS	
	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