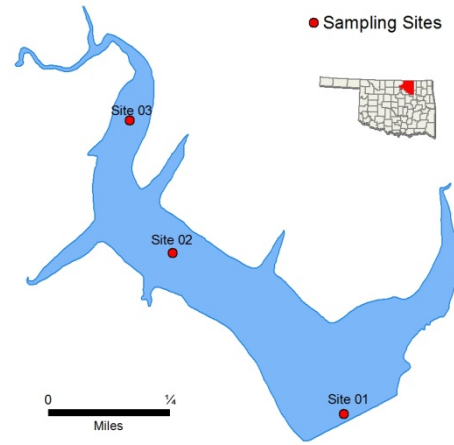


Fairfax



Sample Period	Times Visited	Sampling Sites
November 2015 – August 2016	4	5

General	Location	Osage County
	Impoundment	1936
	Area	111 acres
	Capacity	1,795 acre-feet
	Purposes	Water Supply, Recreation

Parameters	Parameter (<i>Descriptions</i>)		Result	Notes/Comments
	In Situ	Average Turbidity	8 NTU	100% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	71 cm	
		Water Clarity Rating	good	
		Chlorophyll-a	12.9 mg/m ³	
		Trophic State Index	56	Previous Value= 55
		Trophic Class	Eutrophic	
	Profile	Salinity	0.13– 0.18 ppt	
		Specific Conductivity	273.2– 376.20 µS/cm	
		pH	6.95 – 8.13 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	47.2 – 285 mV	
		Dissolved Oxygen	Up to 63% of water column < 2 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.70 mg/L to 0.92 mg/L	
		Surface Total Phosphorus	0.020 mg/L to 0.034 mg/L	
		Nitrogen to Phosphorus Ratio	30:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterro. & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	S	S							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS
	<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes *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