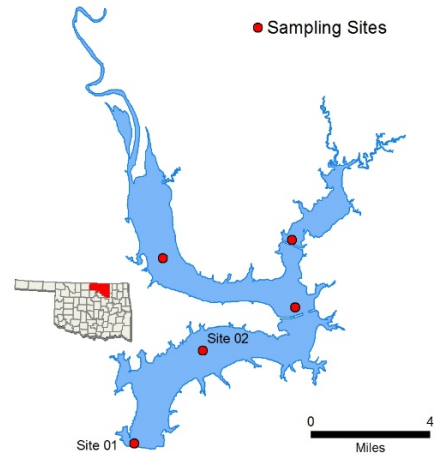


# Kaw (Lower)



Sample Period	Times Visited	Sampling Sites
November 2017 – August 2018	4	2

General	Location	Osage County
	Impoundment	1976
	Area	17,040 acres
	Capacity	428,600 acre-feet
	Purposes	Flood Control, Water Supply, Water Quality Control, and Conservation

Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	8 NTU	100% of values < 25 NTU
		Average Secchi Disk Depth	85 cm	
		Water Clarity Rating	Good	
		Chlorophyll-a	27.97 mg/m <sup>3</sup>	
		Trophic State Index	63	Previous value = 45
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.43 – 0.60 ppt	
		Specific Conductivity	842.0 – 1193.0 µS/cm	
		pH	7.22 – 8.49 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	-3.70 – 544.9 mV	
		Dissolved Oxygen	Up to 62% of water column < 2 mg/L in June	
	Nutrients	Surface Total Nitrogen	0.63 mg/L to 1.46 mg/L	
		Surface Total Phosphorus	0.091 mg/L to 0.187 mg/L	
		Nitrogen to Phosphorus Ratio	7:1	Possibly co-limited

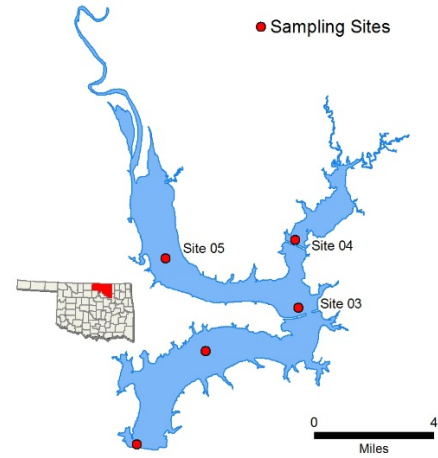
Beneficial Uses	<a href="#">Click to learn more about Beneficial Uses</a>	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterococci & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	NEI	NEI							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary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

# Kaw (Upper)

Sample Period	Times Visited	Sampling Sites
November 2017 – August 2018	4	3

General	Location	Osage County
	Impoundment	1976
	Area	17,040 acres
	Capacity	428,600 acre-feet
	Purposes	Flood Control, Water Supply, Water Quality Control, and Conservation



Parameters	In Situ	Parameter <i>(Descriptions)</i>	Result	Notes/Comments
		Average Turbidity	21 NTU	17% of values > 25 NTU
		Average Secchi Disk Depth	48 cm	
		Water Clarity Rating	Fair	
		Chlorophyll-a	57.75 mg/m <sup>3</sup>	
		Trophic State Index	70	Previous value = 58
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.29 – 0.66 ppt	
		Specific Conductivity	596.0 – 1335.0 µS/cm	
		pH	7.25 – 8.58 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	129.3 to 465.6 mV	
		Dissolved Oxygen	Up to 69% of water column < 2 mg/L in June	
	Nutrients	Surface Total Nitrogen	0.93 mg/L to 2.5 mg/L	
		Surface Total Phosphorus	0.118 mg/L to 0.409 mg/L	
		Nitrogen to Phosphorus Ratio	7:1	Possibly co- limited

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