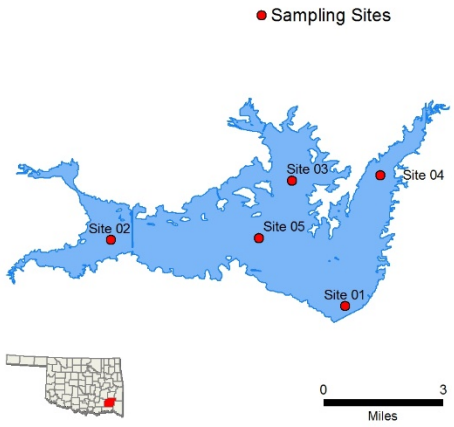
Sardis

Sample Period	Times Visited	Sampling Sites
November 2018 – August 2019	4	5



General

Location	Pushmataha County
Impoundment	1970
Area	13,610 acres
Capacity	274,330 acre feet
Purposes	Flood Control, Waters Supply, Fish and Wildlife, and Recreation

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In-Situ	Average Turbidity	21 NTU	22% of values > 18 NTU
	Average Secchi Disk Depth	51.8 cm	
	Water Clarity Rating	Average	
	Chlorophyll-a	8.86 mg/m3	
	Trophic State Index	62	Previous value = 52
	Trophic Class	Hypereutrophic	
Profile	Salinity	0.02 – 0.03 ppt	
	Specific Conductivity	40.6 – 73.4 µS/cm	
	pH	5.88 – 7.69 pH units	Only 27.9% of values < 6.5 pH units
	Oxidation-Reduction Potential	255.1 to 550.7 mV	
	Dissolved Oxygen	Up to 37% of water column < 2 mg/L in August	
Nutrients	Surface Total Nitrogen	0.34 mg/L to 0.535 mg/L	
	Surface Total Phosphorus	0.028 mg/L to 0.051 mg/L	
	Nitrogen to Phosphorus Ratio	12:1	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	NS	NS	NEI	S							
Aesthetics					S	*					
Agriculture							S	S	S		
Primary Body Contact Recreation										S	
Public & Private Water Supply											

S = Fully Supporting
NS = Not Supporting
NEI = Not Enough Information

Notes: *Standards revision, true color is for permitting purposes only

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

Sampling and Assessment by the Oklahoma Water Resources Board – 3800 Classen Blvd, Oklahoma City, OK, 73118 – 405.530.8800 – http://www.owrb.ok.gov
Bathy map available: http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html