Wes Watkins

Sample Period	Times Visited	Sampling Sites
November 2018 – September 2019	3	3

Sampling Sites

Site 02, Site 03, Site 01

General

Location	Pottawatomie County
Impoundment	1997
Area	1,142 acres
Capacity	14,065 acre-feet
Purposes	Water Supply, Recreation, Flood Control
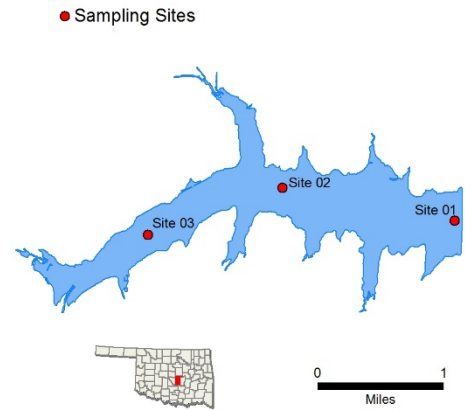
Parameters

Parameter (*Descriptions*)	Result	Notes/Comments
In-Situ		
Average Turbidity	101 NTU	50% of values > OWQS of 25 NTU
Average Secchi Disk Depth	40.4 cm	
Water Clarity Rating	Fair	
Chlorophyll-a	16.46 mg/m3	
Trophic State Index	58	Previous Value= 62
Trophic Class	Eutrophic	
Profile		
Salinity	0.06 – 0.14 ppt	
Specific Conductivity	134.1 – 295.1 µS/cm	
pH	6.82 – 8.55 pH units	Neutral to slightly alkaline
Oxidation-Reduction Potential	101.3 – 484.1 mV	
Dissolved Oxygen	Up to 41% of water column < 2 mg/L in September	
Nutrients		
Surface Total Nitrogen	0.675 mg/L to 1.79 mg/L	
Surface Total Phosphorus	0.031 mg/L to 0.216 mg/L	
Nitrogen to Phosphorus Ratio	16:1	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	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