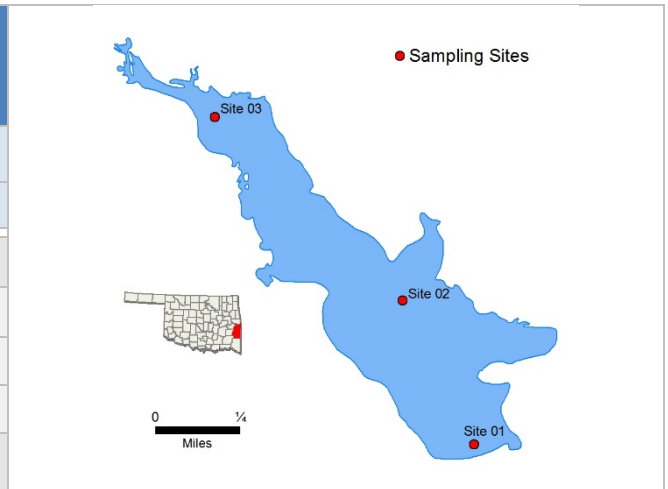


# New Spiro

Sample Period	Times Visited	Sampling Sites
November 2017 – July 2018	4	5

General	Location	Le Flore County
	Impoundment	1960
	Area	254 acres
	Capacity	2,160 acre-feet
	Purposes	Water Supply, Recreation



Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	14 NTU	8% of values > OWQS of 25 NTU (n=12)
		Average Secchi Disk Depth	54 cm	
		Water Clarity Rating	Good	
		Chlorophyll-a	37.37 mg/m <sup>3</sup>	
		Trophic State Index	66	Previous value = 48
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.05 – 0.09 ppt	
		Specific Conductivity	85.9 – 199.7 µS/cm	
		pH	5.91 – 7.84 pH units	39% < 6.5 pH & 8% > 9.0 pH
		Oxidation-Reduction Potential	29.8 – 577.3 mV	
		Dissolved Oxygen	Up to 47% of water column < 2.0 mg/L in July	Occurred at site 1
	Nutrients	Surface Total Nitrogen	1.035 mg/L to 2.21 mg/L	
		Surface Total Phosphorus	0.068 mg/L to 0.229 mg/L	
		Nitrogen to Phosphorus Ratio	12:1	Phosphorus 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	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NS	S							
	Aesthetics					NEI	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS

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