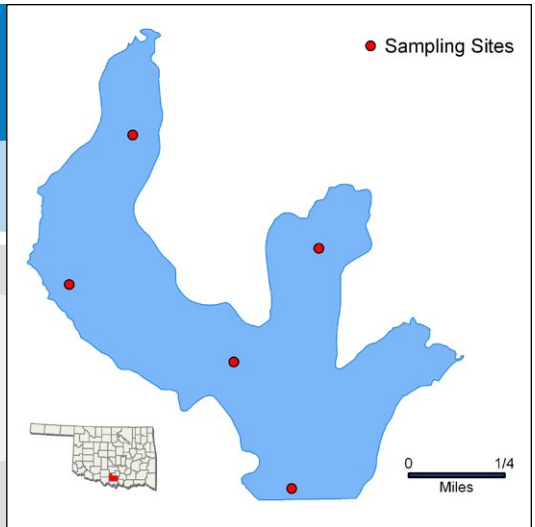


# Healdton



Sample Period	Times Visited	Sampling Sites
November 2005 – August 2006	4	5

Lake Data	Location	Carter County
	Impoundment	1979
	Area	370 acres
	Capacity	3,766 acre-feet
	Purposes	Water Supply, Recreation

Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	48 NTU	100% of values > OWQS of 25 NTU	
	Average True Color	159 units	100% of values > OWQS of 70	
	Average Secchi Disk Depth	34 cm		
	Water Clarity Rating	poor		
	Trophic State Index	49		
	Trophic Class	mesotrophic		
	Profile	Salinity	0.13– 0.19 ppt	
		Specific Conductivity	275.6 – 378.5 µS/cm	
		pH	7.05 – 7.86 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	304 – 450 mV	
		Dissolved Oxygen	Up to 33% of water column < 2 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.59 mg/L to 0.94 mg/L	
		Surface Total Phosphorus	0.043 mg/L to 0.100 mg/L	
		Nitrogen to Phosphorus Ratio	11:1	Phosphorus limited

Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates, Chlorides & TDS	En,ecal coli, & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS*	S	S	S				
	Aesthetics					S	NS*		
	Agriculture						S		
	Primary Body Contact Recreation								NEI*
	Public & Private Water Supply								

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

**Notes**

\* Due to inclement weather conditions all sites could not be sample in May, therefore an assessment cannot be made for turbidity, true color or bacteria as minimum data requirements were not met.

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