# Healdton

## Sample Period

| November 2005 – August 2006 | 4 | 5 |

## General

<table>
<thead>
<tr>
<th>Location</th>
<th>Carter County</th>
<th>Click map for site data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impoundment</td>
<td>1979</td>
<td></td>
</tr>
<tr>
<td>Area</td>
<td>370 acres</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>3,766 acre-feet</td>
<td></td>
</tr>
<tr>
<td>Purposes</td>
<td>Water Supply, Recreation</td>
<td></td>
</tr>
</tbody>
</table>

## Parameter (Descriptions) Result Notes/Comments

### In Situ
- **Average Turbidity** 29 NTU 100% of values > OWQS of 25 NTU
- **Average Secchi Disk Depth** 31 cm
- **Water Clarity Rating** Poor
- **Chlorophyll-a** 14.8 mg/m3
- **Trophic State Index** 57 Previous Value= 49
- **Trophic Class** Eutrophic

### Profile
- **Salinity** 0.07– 0.13 ppt
- **Specific Conductivity** 143.8 – 278.4 µS/cm
- **pH** 7.12 – 8.19 pH units Neutral to slightly alkaline
- **Oxidation-Reduction Potential** 23.7 – 415.3 mV
- **Dissolved Oxygen** Up to 40% of water column < 2 mg/L in August

### Nutrients
- **Surface Total Nitrogen** 0.39 mg/L to 0.72 mg/L
- **Surface Total Phosphorus** 0.040 mg/L to 0.063 mg/L
- **Nitrogen to Phosphorus Ratio** 11:1 Phosphorus limited

## Beneficial Uses

- **Fish & Wildlife Propagation** NS S S NEI
- **Aesthetics** S *
- **Agriculture** S S S
- **Primary Body Contact Recreation** S
- **Public & Private Water Supply** NEI

*Standards revision, true color is for permitting purposes only.

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**NTU** = nephelometric turbidity units  
**µS/cm** = microsiemens per centimeter  
**E. coli** = Escherichia coli  
**OWQS** = Oklahoma Water Quality Standards  
**mg/L** = milligrams per liter  
**ppt** = parts per thousand  
**µS/cm** = microsiemens/cm  
**En** = Enterococci

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Bathy map available: [http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html](http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html)