**Dave Boyer (Walters)**

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2016 – September 2017</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

**General**

- Location: Cotton County
- Impoundment: 1936
- Area: 148 acres
- Capacity: 861 acre feet
- Purposes: Water Supply, and Recreation

**Parameter (Descriptions)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>Notes/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Turbidity</td>
<td>69 NTU</td>
<td>100% of values &gt; 25 NTU</td>
</tr>
<tr>
<td>Average Secchi Disk Depth</td>
<td>19 cm</td>
<td></td>
</tr>
<tr>
<td>Water Clarity Rating</td>
<td>poor</td>
<td></td>
</tr>
<tr>
<td>Chlorophyll</td>
<td>10.42 mg/L</td>
<td></td>
</tr>
<tr>
<td>Trophic State Index</td>
<td>54</td>
<td>Previous value = 51</td>
</tr>
<tr>
<td>Trophic Class</td>
<td>eutrophic</td>
<td></td>
</tr>
</tbody>
</table>

**Profile**

- Salinity: 0.14 – 0.15 ppt
- Specific Conductivity: 286.6 – 312.8 µS/cm
- pH: 7.62 – 8.2 pH units
- Oxidation-Reduction Potential: 213.1 – 453.5 mV
- Dissolved Oxygen
  - All values > 2 mg/L

**Nutrients**

- Surface Total Nitrogen: 0.88 mg/L to 1.18 mg/L
- Surface Total Phosphorus: 0.109 mg/L to 0.158 mg/L
- Nitrogen to Phosphorus Ratio: 8:1
  - Phosphorus limited

**Beneficial Uses**

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

**Notes**

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

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


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