### Sooner

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2017 - July 2018</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

#### General
- **Location**: Pottawatomie County
- **Impoundment**: 1934
- **Area**: 127 acres
- **Capacity**: 1,118 acre-feet
- **Purposes**: Water Supply, and Recreation

#### Parameter (Description) | Result | Notes/Comments
--- | --- | ---
Average Turbidity | 50 NTU | 75% of values > OWQS of 25 NTU
Average Secchi Disk Depth | 28 cm | 
Water Clarity Rating | Poor | 
Chlorophyll-a | 13.76 mg/m³ | 
Trophic State Index | 56 | Previous value = 49
Trophic Class | Eutrophic | 
Salinity | 0.12 – 0.14 ppt | 
Specific Conductivity | 253.5 – 286.1 µS/cm | Neutral
pH | 7.03 – 8.26 pH units | 
Oxidation-Reduction Potential | 70.0 to 565.9 mV | 
Dissolved Oxygen | Up to 8% of water column < 2.0 mg/L in July | 
Surface Total Nitrogen | 0.575 mg/L to 1.09 mg/L | 
Surface Total Phosphorus | 0.043 mg/L to 0.095 mg/L | 
Nitrogen to Phosphorus Ratio | 13:1 | Phosphorus limited

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

*Notes: S = Fully Supporting, NS = Not Supporting, NEI = Not Enough Information

*Standards revision, true color is for permitting purposes only

---

**Sampling and Assessment by the Oklahoma Water Resources Board** – 3800 Classen Blvd, Oklahoma City, OK, 73118 – 405.530.8800 – [http://www.owrb.ok.gov](http://www.owrb.ok.gov)

---

**Accuracy and Reliability**: Data are collected by certified personnel in accordance with established procedures. However, some data may be incomplete or inaccurate due to technical or operational issues. Users are encouraged to verify the data before using it for decision-making purposes.