## Pawhuska

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

### General Information
- **Location**: Osage County
- **Impoundment Year**: 1936
- **Area**: 96 acres
- **Capacity**: 3,600 acre feet
- **Purposes**: Water Supply and Recreation

### Parameters

<table>
<thead>
<tr>
<th>Parameter (Descriptions)</th>
<th>Result</th>
<th>Notes/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Turbidity</td>
<td>5 nephelometric turbidity units (NTU)</td>
<td>All values &lt; 25 NTU</td>
</tr>
<tr>
<td>Average Secchi Disk Depth</td>
<td>135 cm</td>
<td></td>
</tr>
<tr>
<td>Water Clarity Rating</td>
<td>excellent</td>
<td></td>
</tr>
<tr>
<td>Chlorophyll</td>
<td>4.18 mg/L</td>
<td></td>
</tr>
<tr>
<td>Trophic State Index</td>
<td>45</td>
<td>Previous value = 41</td>
</tr>
<tr>
<td>Trophic Class</td>
<td>mesotrophic</td>
<td></td>
</tr>
<tr>
<td>Salinity</td>
<td>0.21 – 0.27 ppt</td>
<td></td>
</tr>
<tr>
<td>Specific Conductivity</td>
<td>433 – 549.6 µS/cm</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7.14 – 8.42 pH units</td>
<td>Neutral to slightly alkaline</td>
</tr>
<tr>
<td>Oxidation-Reduction Potential</td>
<td>-17.6 to 524 mV</td>
<td></td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td>Up to 64% of water column &lt; 2 mg/L in July</td>
<td>Occurred at site 1</td>
</tr>
<tr>
<td>Surface Total Nitrogen</td>
<td>0.31 mg/L to 0.69 mg/L</td>
<td></td>
</tr>
<tr>
<td>Surface Total Phosphorus</td>
<td>0.010 mg/L to 0.028 mg/L</td>
<td></td>
</tr>
<tr>
<td>Nitrogen to Phosphorus Ratio</td>
<td>29:1</td>
<td>Phosphorus limited</td>
</tr>
</tbody>
</table>

### Beneficial Uses

- **Click to learn more about Beneficial Uses**

<table>
<thead>
<tr>
<th>Parameter (Descriptions)</th>
<th>Fish &amp; Wildlife Propagation</th>
<th>Aesthetics</th>
<th>Agriculture</th>
<th>Primary Body Contact Recreation</th>
<th>Public &amp; Private Water Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbidity</td>
<td>S</td>
<td>S</td>
<td>NS</td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>pH</td>
<td>S</td>
<td>S</td>
<td>NEI</td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Metals</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>TSI</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>True Color</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Sulfates</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Chlorides</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Enteroc. &amp; E. coli</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Chlor-a</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>En</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>S</td>
</tr>
</tbody>
</table>

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

**Notes**: Standards revision, true color is for permitting purposes only

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