Langston

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2015 – August 2016</td>
<td>4</td>
<td>5</td>
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</tbody>
</table>

**General**
- Location: Logan County
- Impoundment: 1966
- Area: 304 acres
- Capacity: 5,792 acre-feet
- Purposes: Water Supply, Flood Control, and Recreation

**Parameter (Descriptions) | Result | Notes/Comments**
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In-Situ
- Average Turbidity: 6 NTU
- Average Secchi Disk Depth: 104 cm
- Water Clarity Rating: Excellent
- Chlorophyll-a: 5.6 mg/m³
- Trophic State Index: 48
- Trophic Class: Mesotrophic

Profile
- Salinity: 0.18 – 0.19 ppt
- Specific Conductivity: 372.2 – 393.7 µS/cm
- pH: 7.91 – 8.42 pH units
- Oxidation-Reduction Potential: 150.1 to 336.3 mV
- Dissolved Oxygen: Up to 27% of water column < 2 mg/L in summer

Nutrients
- Surface Total Nitrogen: 0.47 mg/L to 0.54 mg/L
- Surface Total Phosphorus: 0.010 mg/L to 0.019 mg/L
- Nitrogen to Phosphorus Ratio: 38:1

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

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


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