# Rocky (Hobart)

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2017 – September 2017</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### General
- **Location**: Washita County
- **Impoundment**: 1933
- **Area**: 347 acres
- **Capacity**: 4,210 acre-feet
- **Purposes**: Water Supply, Recreation

### Parameter (Description) | Result | Notes/Comments
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**In Situ**
- Average Turbidity: 43 NTU
  - 67% of values > OWQS of 25 NTU (n=9)
- Average Secchi Disk Depth: 27 cm
- Water Clarity Rating: Poor
- Chlorophyll-a: 82.39 mg/m³
- Trophic State Index: 74
  - Previous value = 68
- Trophic Class: Hypereutrophic

### Profile
- Salinity: 0.19 – 0.44 ppt
- Specific Conductivity: 406.8 – 897.7 µS/cm
- pH: 7.74 – 8.74 pH units
- Oxidation-Reduction Potential: 250.2 to 449.6 mV
- Dissolved Oxygen: All data are above screening level of 2.0 mg/L

### Nutrients
- Surface Total Nitrogen: 1.11 mg/L to 1.86 mg/L
- Surface Total Phosphorus: 0109 mg/L to 0.247 mg/L
- Nitrogen to Phosphorus Ratio: 9:1
  - Phosphorus limited

### Beneficial Uses

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

**Notes**
- * = Standards revision, true color is for permitting purposes only
- Currently, the lake is listed as a Nutrient Limited Watershed (NLW) in the Oklahoma Water Quality Standards (WQS). This listing means that the lake is considered threatened from nutrients until a more intensive study can confirm the Aesthetics beneficial use non-support status.

**Abbreviations**
- NTU = nephelometric turbidity units
- OWQS = Oklahoma Water Quality Standards
- µS/cm = microsiemens per centimeter
- µg/L = milligrams per liter
- mV = millivolts
- Chl-a = Chlorophyll-a
- En = Enterococci

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