# Raymond Gary

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2008 – August 2009</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

## General

- **Location**: Choctaw County
- **Impoundment**: 1956
- **Area**: 263 acres
- **Capacity**: 1,681 acre feet
- **Purposes**: Recreation

## Parameters

### In Situ

- **Average Turbidity**: 11 NTU
  - 100% of values < OWQS of 25 NTU (n=11)
- **Average True Color**: Did not collect for true color
- **Average Secchi Disk Depth**: 55 cm
- **Water Clarity Rating**: Average
- **Trophic State Index**: 55
  - Previous value = 55
- **Trophic Class**: Eutrophic

### Profile

- **Salinity**: 0.00 – 0.49 ppt
- **Specific Conductivity**: 69.3 – 936.2 µS/cm
- **pH**: 6.61 – 7.83 pH units
- **Oxidation-Reduction Potential**: 83 to 521 mV
- **Dissolved Oxygen**: Up to 67% of water column < 2.0 mg/L in June
  - Occurred at site 1, the dam

### Nutrients

- **Surface Total Nitrogen**: 0.30 mg/L to 0.82 mg/L
- **Surface Total Phosphorus**: 0.005 mg/L to 0.048 mg/L
- **Nitrogen to Phosphorus Ratio**: 17:1
  - Phosphorus limited

## Beneficial Uses

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

## Notes

- S = Fully Supporting
- NS = Not Supporting
- NEI = Not Enough Information

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

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**NTU** = nephelometric turbidity units  
**µS/cm** = microsiemens per centimeter  
**E. coli** = Escherichia coli

**OWQS** = Oklahoma Water Quality Standards  
**mg/L** = milligrams per liter  
**µS/cm** = microsiemens/cm  
**ppt** = parts per thousand  
**En** = Enterococci

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