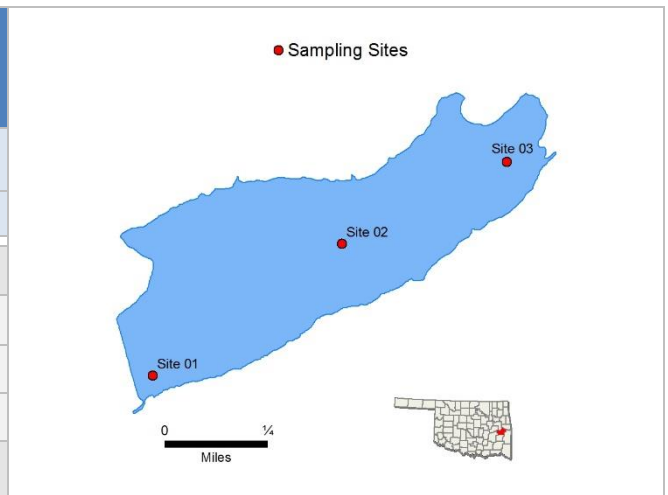


# John Wells

| Sample Period               | Times Visited | Sampling Sites |
|-----------------------------|---------------|----------------|
| November 2016 – August 2017 | 4             | 5              |

| General | Location    | Haskell County           |
|---------|-------------|--------------------------|
|         | Impoundment | 1936                     |
|         | Area        | 194 acres                |
|         | Capacity    | 1,352 acre-feet          |
|         | Purposes    | Water Supply, Recreation |



| Parameters                   | Parameter ( <i>Descriptions</i> ) |                               | Result                                       | Notes/Comments                         |
|------------------------------|-----------------------------------|-------------------------------|--|--|
|                              | In Situ                           | Average Turbidity             | 4 NTU  | 100% of values < OWQS of 25 NTU (n=10) |
|                              |                                   | Average Secchi Disk Depth     | 146 cm                                       |  |
|                              |                                   | Water Clarity Rating          | Excellent                                    |  |
|                              |                                   | Chlorophyll                   | 5.2 mg/L                                     |  |
|                              |                                   | Trophic State Index           | 47   | Previous value = 45                    |
|                              |                                   | Trophic Class                 | Mesotrophic                                  |  |
|                              | Profile                           | Salinity                      | 0.03 – 0.08 ppt                              |  |
|                              |                                   | Specific Conductivity         | 75.2 – 165.2 $\mu$ S/cm                      |  |
|                              |                                   | pH                            | 6.39 – 8.74 pH units                         | 4.8% of values < 6.50 pH               |
|                              |                                   | Oxidation-Reduction Potential | 95.2 – 546.3 mV                              |  |
|                              |                                   | Dissolved Oxygen              | Up to 50% of water column < 2.0 mg/L in July |  |
|                              | Nutrients                         | Surface Total Nitrogen        | 0.42 mg/L to 0.55 mg/L                       |  |
| Surface Total Phosphorus     |                                   | 0.014 mg/L to 0.018 mg/L      |  |  |
| Nitrogen to Phosphorus Ratio |                                   | 31:1                          | Phosphorus limited                           |  |

| Beneficial Uses | <a href="#">Click to learn more about Beneficial Uses</a> | Turbidity | pH | Dissolved Oxygen | Metals | TSI | True Color | Sulfates | Chlorides | Total Dissolved Solids | En & E. coli | Chlor-a |
|-----------------|---|-----------|----|------------------|--------|-----|------------|----------|-----------|------------------------|--------------|---------|
|                 | Fish & Wildlife Propagation                               | S         | S  | S                | S      |     |            |          |           |                        |              |         |
|                 | Aesthetics  |           |    |                  |        | S   | *          |          |           |                        |              |         |
|                 | Agriculture   |           |    |                  |        |     |            | *        | *         | S                      |              |         |
|                 | Primary Body Contact Recreation                           |           |    |                  |        |     |            |          |           |                        | S            |         |
|                 | Public & Private Water Supply                             |           |    |                  | S      |     |            |          |           |                        |              |         |

| Notes  |   |
|--|---|
| <p>S = Fully Supporting<br/> NS = Not Supporting<br/> NEI = Not Enough Information</p> | Standards revision, true color is for permitting purposes only. |

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