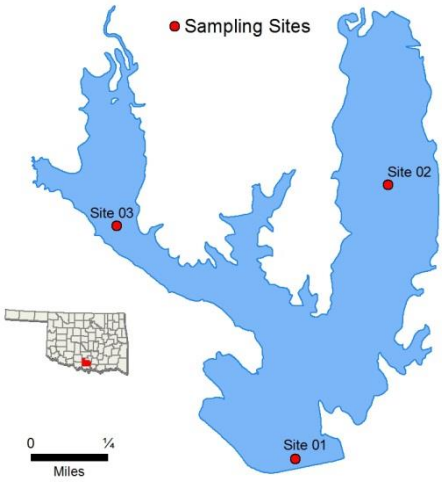
# Jean Neustadt

| Sample Period | Times Visited | Sampling Sites |
|---|---|---|
| December 2016 – September 2017 | 4 | 5 |




## General

| | |
|---|---|
| Location | Carter County |
| Impoundment | 1969 |
| Area | 462 acres |
| Capacity | 6,106 acre-feet |
| Purposes | Recreation |

## Parameters

| | Parameter (Descriptions) | Result | Notes/Comments |
|---|---|---|---|
| In Situ | Average Turbidity | 16 NTU | 17% of values > OWQS of 25 NTU (n=12) |
| | Average Secchi Disk Depth | 48 cm | |
| | Water Clarity Rating | Average | |
| | Chlorophyll-a | 14.23 mg/m3 | |
| | Trophic State Index | 57 | Previous value = 61 |
| | Trophic Class | Eutrophic | |
| Profile | Salinity | 0.10– 0.14 ppt | |
| | Specific Conductivity | 220.8 – 328.9 µS/cm | |
| | pH | 6.95 – 8.58 pH units | |
| | Oxidation-Reduction Potential | 44 - 456.8 mV | |
| | Dissolved Oxygen | Up to 54% of water column < 2 mg/L in June | Occurred at site 1, the dam |
| Nutrients | Surface Total Nitrogen | 0.60 mg/L to 1.14 mg/L | |
| | Surface Total Phosphorus | 0.024mg/L to 0.087 mg/L | |
| | Nitrogen to Phosphorus Ratio | 20:1 | Phosphorus limited |

## Beneficial Uses

| Click to learn more about Beneficial Uses | Turbidity | pH | Dissolved Oxygen | Metals | TSI | True Color | Sulfates | Chlorides | Total Dissolved Solids | Enterro. & E. coli | Chlor-a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fish & Wildlife Propagation | S | S | NEI | S | | | | | | | |
| Aesthetics | | | | | S | * | | | | | |
| Agriculture | | | | | | | N/A | N/A | S | | |
| Primary Body Contact Recreation | | | | | | | | | | S | |
| Public & Private Water Supply | | | | | | | | | | | |

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

**Notes**

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

* 50-70% range is undetermined for DO.

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

Sampling and Assessment by the **Oklahoma Water Resources Board** – 3800 Classen Blvd, Oklahoma City, OK, 73118 – 405.530.8800 – http://www.owrb.ok.gov

Bathy map available: http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html