

2019 Lake Owassa Water Quality Results

May Test

Sunday, May 26, 2019

7pm - 8:30pm

74°F, partly cloudy, shower in afternoon, wet spring

Wind: West, 5 mph

| Location | Depth feet | DO % Sat | DO mg/L | Temp °F | Conductivity mS/cm | pH Units | Turbidity NTU | NH4+ mg/L-N | NO3- mg/L-N | Secchi Disk | Total P mg/L | Chlorophyll a µg/L | Salinity ppt | |
|-------------------|------------|----------|---------|---------|--------------------|----------|---------------|-------------|-------------|-------------|--------------|--------------------|--------------|------|
| cove | 1 | 121.0 | 8.75 | 73.40 | 0.1169 | 7.38 | 1.2 | 0.04 | 1.91 | 34" | 0.028 | 5.91 | 0.05 | |
| outlet | 1 | 120.3 | 8.79 | 71.10 | 0.1155 | 7.35 | 2 | 0.04 | 2.3 | | 0.02 | 7.58 | 0.05 | |
| mid-lake 1 | 1 | 116.5 | 8.55 | 69.30 | 0.1149 | 7.27 | 2.2 | 0.04 | 2.56 | | | 7.45 | 0.05 | |
| mid-lake 3 | 3 | 113.6 | 8.52 | 68.50 | 0.1147 | 7.27 | 2.4 | 0.04 | 2.56 | | | 8.32 | 0.05 | |
| mid-lake 6 | 6 | 107.1 | 8.14 | 68.00 | 0.1148 | 7.22 | 2.4 | 0.04 | 2.54 | | | 8.85 | 0.05 | |
| mid-lake 10 | 10 | 96.6 | 7.57 | 64.80 | 0.1137 | 6.97 | 2.6 | 0.04 | 2.51 | | | 9.24 | 0.05 | |
| mid-lake 16 | 16 | 45.2 | 3.80 | 56.20 | 0.1097 | 6.41 | 5.7 | 0.04 | 2.5 | | | 6.06 | 0.04 | |
| stream | 1 | 110.6 | 8.31 | 66.90 | 0.1146 | 7.16 | 4.9 | 0.04 | 3.05 | | | 0.033 | 10.01 | 0.05 |
| upper lake | 1 | 115.9 | 8.65 | 68.80 | 0.1152 | 7.27 | 3 | 0.03 | 2.35 | | | | 6.15 | 0.05 |
| storm drain inlet | 1 | 115.8 | 8.37 | 71.80 | 0.1143 | 7.25 | 2.8 | 0.03 | 2.49 | | | | 6.11 | 0.05 |
| | 1 | 114.0 | 8.20 | 72.20 | 0.1077 | 6.95 | 2.3 | 0.03 | 3.64 | | 0.017 | 6.72 | 0.04 | |

| | | | | | | | | | | |
|---------------|----------|-------------|-------|-----------|-----------|------------|-----------------|---------------|------------|----------|
| > 70 fair | > 4 Fair | < 80 = good | < 0.5 | 6.5 - 8.2 | < 40 good | < 1 = good | < 5=fair | < 0.05 = best | 2 - 12µ/L | < 1 good |
| >90 Excellent | > 6 Best | | good | optimal | < 10 best | | < 3 = good | | acceptable | |
| | | | | | | | < 2 = excellent | | | |

August Test

Friday, August 16, 2019

3:15pm - 5:15pm

82°F, partly cloudy, 50% cover

Wind: calm

| Location | Depth feet | DO % Sat | DO mg/L | Temp °F | Conductivity mS/cm | pH Units | Turbidity NTU | NH4+ mg/L-N | NO3- mg/L-N | Secchi Disk | Chlorophyll a µg/L | Total P mg/L | Salinity ppt |
|-------------|------------|----------|---------|---------|--------------------|----------|---------------|-------------|-------------|-------------|--------------------|--------------|--------------|
| cove | 1 | 98.6 | 6.80 | 77.10 | 0.1170 | 7.54 | 4.3 | 0.04 | 1.45 | 30" | 5.49 | 0.027 | 0.05 |
| outlet | 1 | 136.5 | 9.07 | 80.50 | 0.1201 | 9.03 | 14.2 | 0.05 | 1.91 | | 5.47 | 0.025 | 0.05 |
| mid-lake 1 | 1 | 138.1 | 9.22 | 79.90 | 0.1198 | 9.1 | 15.5 | 0.05 | 1.92 | | 6.77 | 0.05 | 0.05 |
| mid-lake 3 | 3 | 124.4 | 8.48 | 78.10 | 0.1175 | 8.63 | 14.1 | 0.04 | 1.83 | | 8.00 | | 0.05 |
| mid-lake 6 | 6 | 118.6 | 8.17 | 77.10 | 0.1169 | 8.32 | 13.5 | 0.03 | 2.06 | | 7.80 | | 0.05 |
| mid-lake 10 | 10 | 75.0 | 4.28 | 76.10 | 0.1171 | 7.14 | 9.7 | 0.03 | 1.67 | | 4.60 | | 0.05 |
| mid-lake 16 | 16 | 5.6 | 1.03 | 62.10 | 0.2337 | 6.88 | 6.34 | 0.90 | 1.52 | | 0.00 | | 0.11 |
| stream | 1 | 125.6 | 8.45 | 79.30 | 0.1189 | 8.79 | 16.0 | 0.04 | 2.15 | | 5.67 | | 0.022 |
| upper lake | 1 | 123.8 | 8.40 | 78.40 | 0.1179 | 8.69 | 14.1 | 0.04 | 1.95 | | 6.50 | 0.05 | 0.05 |
| storm drain | 1 | 131.1 | 8.90 | 78.50 | 0.1185 | 8.95 | 15.4 | 0.05 | 1.93 | | 7.52 | | 0.05 |
| inlet | 1 | 119.2 | 7.89 | 77.50 | 0.1175 | 8.59 | 10.5 | 0.04 | 1.88 | | 5.95 | 0.034 | 0.05 |

> 70 fair
>90 Best

> 4 Fair
> 6 Best

<80=good

< 0.5
good

6.5 - 8.2
optimal

<40 good
<10 best

<1=good

< 5=fair
< 3 = good
< 2 = excellent

2 - 12µ/L
acceptable

<0.05=good

< 0.5 good

October Test

Saturday, October 26, 2019

12:40pm - 2pm

48°F, Sunny, high cirrus cloud cover (50%)

Wind: NW calm

| Location | Depth feet | DO % Sat | DO mg/L | Temp °F | Conductivity mS/cm | pH Units | Turbidity NTU | NH4+ mg/L-N | NO3- mg/L-N | Secchi Disk | Chlorophyll a µg/L | Total P mg/L | Salinity ppt |
|-------------|------------|----------|---------|---------|--------------------|----------|---------------|-------------|-------------|-------------|--------------------|--------------|--------------|
| cove | 1 | 107.6 | 9.29 | 57.00 | 0.125 | 6.94 | 2.6 | 0.01 | 1.42 | 39" | 4.00 | 0.035 | 0.05 |
| outlet | 1 | 106.8 | 9.36 | 55.60 | 0.1248 | 6.93 | 2.2 | 0.01 | 2.05 | | 7.03 | 0.034 | 0.05 |
| mid-lake 1 | 1 | 110.5 | 9.77 | 56.60 | 0.1248 | 6.97 | 2.8 | 0.01 | 2.47 | | 5.82 | 0.05 | 0.05 |
| mid-lake 3 | 3 | 110.4 | 9.74 | 55.30 | 0.1249 | 7.03 | 3.4 | 0.01 | 2.78 | | 8.19 | | 0.05 |
| mid-lake 6 | 6 | 108.2 | 9.55 | 55.00 | 0.1245 | 6.99 | 3.6 | 0.01 | 2.78 | | 7.23 | | 0.05 |
| mid-lake 10 | 10 | 102.9 | 9.12 | 54.70 | 0.1245 | 6.98 | 3.9 | 0.01 | 3.08 | | 6.70 | | 0.05 |
| mid-lake 15 | 15 | 88.6 | 7.92 | 54.40 | 0.1242 | 6.73 | 8.9 | 0.01 | 3.27 | | 5.73 | | 0.06 |
| stream | 1 | 107.9 | 9.33 | 57.00 | 0.125 | 6.95 | 2.3 | 0.01 | 2.82 | | 4.94 | | 0.020 |
| upper lake | 1 | 108.4 | 9.47 | 56.40 | 0.1251 | 6.95 | 3.7 | 0.01 | 2.95 | | 5.37 | 0.05 | 0.05 |
| storm drain | 1 | 105.5 | 9.20 | 56.00 | 0.1251 | 6.89 | 4.6 | 0.01 | 3.06 | | 3.76 | | 0.05 |
| inlet | 1 | 98.1 | 8.56 | 56.10 | 0.1208 | 6.80 | 2.1 | 0.01 | 3.75 | | 4.79 | 0.020 | 0.05 |

> 70 fair
>90 Best

> 4 Fair
> 6 Best

< 80
good

< 0.5
good

6.5 - 8.2
optimal

< 40 good
< 10 best

< .05
good

< 5=fair
< 3 = good
< 2 = excellent

< 0.05
good

< 1 good