

2020 Lake Owassa Water Quality Results

May Test

Saturday, May 30, 2020

12 - 2pm

Sunny, Clear skies, 72°F

Wind: from west 5-10 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 Phos. mg/L	Chlorophyll a µg/L
cove	1	112.5	8.00	74.3	0.1275	7.32	2.5	0.03	1.50	48"	0.018	3.95
outlet	1	118.3	8.29	75.0	0.1271	7.35	1.2	0.03	1.12		0.02	4.08
mid-lake 1	1	119.6	8.52	74.3	0.1265	7.42	1	0.03	1.28			4.55
mid-lake 3	3	113.8	8.20	73.2	0.1267	7.42	1.3	0.03	1.03			4.71
mid-lake 6	6	108.2	8.01	70.5	0.1258	7.26	1.6	0.03	1.22			4.82
mid-lake 10	10	87.6	6.94	65.0	0.1246	6.95	1.4	0.03	1.33			3.47
mid-lake 15	15	55.8	4.88	58.1	0.1237	6.62	1.3	0.03	1.53			3.16
stream	1	116.6	8.37	73.1	0.1273	7.31	1.4	0.03	1.67		0.023	4.77
upper lake	1	118.2	8.46	74.2	0.1270	7.42	1.8	0.03	1.76			4.50
storm drain	1	119.7	8.54	74.1	0.1261	7.25	1.4	0.03	1.65			3.76
inlet	1	118.7	8.50	74.1	0.1266	7.31	2.4	0.03	1.68		0.023	3.79

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

August Test

Friday, August 21, 2020

11:30 - 1pm

High clouds (50% cover)

Wind 5 mph from west

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 Phos mg/L	Chlorophyll a µg/L	
cove	1	119.0	8.16	77.70	0.1337	8.25	4.1	0.04	4.40	37"	0.025	6.30	
outlet	1	117.8	8.16	77.40	0.1333	8.12	3.6	0.04	4.27		0.026	4.66	
mid-lake 1	1	120.4	8.31	76.80	0.1334	8.00	4.3	0.04	4.35			5.37	
mid-lake 3	3	118.0	8.22	76.50	0.1333	8.01	4.7	0.04	4.39			6.37	
mid-lake 6	4	113.4	7.93	76.00	0.1334	7.83	4.7	0.04	4.42			7.05	
mid-lake 10	10	110.2	7.73	75.80	0.1334	7.66	4.9	0.04	4.39			7.25	
mid-lake 12	12	84.4	5.95	75.10	0.1338	7.33	4.1	0.04	4.45			4.81	
stream	1	119.0	8.22	77.10	0.1338	8.11	4.9	0.04	4.40			0.023	4.07
upper lake	1	120.1	8.33	77.00	0.1338	8.13	6.4	0.04	4.39				4.92
storm drain	1	109.8	7.60	76.60	0.134	7.65	5.8	0.05	4.35				4.87
inlet	1	103.4	7.57	75.40	0.1336	7.53	5.7	0.05	4.30			0.025	5.50

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

**Note: Issue with NO3- sensor on probe (A "?" next to parameter reading = detection limit issue, but was still recording information)

October Test

Saturday, October 17, 2020

8am-11am

Wind: 5-10 mps from west

Sunny, Clear skies, 49°F

Rain the day before 1 to 1.5"

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 Phos. mg/L	Chlorophyll a µg/L	
cove	1	89.5	6.84	57.3	0.1307	6.89	2.6	0.13	1.30	41"	0.033	4.83	
outlet	1	82.4	7.10	58.2	0.1297	6.90	1.3	0.12	1.09		0.031	4.01	
mid-lake 1	1	84.6	7.18	58.3	0.1296	6.92	2.0	0.12	1.05			6.68	
mid-lake 3	3	85.6	7.26	58.4	0.1296	6.93	2.2	0.13	1.02			7.11	
mid-lake 6	6	85.1	7.18	58.3	0.1293	6.94	2.3	0.13	1.02			7.06	
mid-lake 10	10	84.3	7.15	58.3	0.1292	6.94	3.2	0.13	1.02			6.33	
mid-lake 15	15	50.6	5.14	58.3	0.1292	6.93	2.2	0.14	1.02			5.94	
stream	1	86.4	7.49	58.2	0.1297	6.88	3.8	0.12	1.05			0.030	4.84
upper lake	1	88.6	7.96	57.9	0.1294	6.91	2.6	0.10	1.38				4.90
storm drain	1	82.2	7.39	56.4	0.1283	6.86	1.8	0.09	2.00				5.62
inlet	1	81.5	7.24	56.2	0.1257	6.84	2.1	0.11	3.42			0.026	5.91

> 70 fair
>90 Excellent

> 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

< 0.05 = good