

AMBIENT LAKE MONITORING NETWORK

Lake Name: Longwood Lake

County: MORRIS

SiteID: NJW04459-258

Municipality: JEFFERSON TWP

Surface to Bottom Profile

Season: Spring

<i>Station</i>	<i>Tot. Depth (M)</i>	<i>Profile Depth (M)</i>	<i>Secchi (M)</i>	<i>Water Temp (C)</i>	<i>DO (mg/L)</i>	<i>DO (%Sat)</i>	<i>pH (SU)</i>	<i>Conductivity (mS/cm)</i>
1	2.7	1	2.7	13.25	8.52	83	7.53	0.231
1	2.7	2	2.7	13.24	8.42	83	7.53	0.231
2	1.3	0.6	1.3	12.28	8.83	84.1	7.48	0.22
3	1.7	1	1.7	12.34	10.79	102.9	7.83	0.22
outlet	0.6	0.6		13.69	9.47	93.2	7.59	0.232

Season: Summer

<i>Station</i>	<i>Tot. Depth (M)</i>	<i>Profile Depth (M)</i>	<i>Secchi (M)</i>	<i>Water Temp (C)</i>	<i>DO (mg/L)</i>	<i>DO (%Sat)</i>	<i>pH (SU)</i>	<i>Conductivity (mS/cm)</i>
1	2.6	1	2.4	24.24	4.04	48.7	7.09	0.36
1	2.6	2	2.4	23.27	1.08	12.8	6.92	0.374
2	1.3	0.6	1.1	24.88	3.3	39.9	7.13	0.359
3	1.7	1	1.7	22.37	2.66	31.1	7.08	0.407
outlet	0.7	0.7		24.63	5.92	72.1	6.69	0.358

Season: Fall

<i>Station</i>	<i>Tot. Depth (M)</i>	<i>Profile Depth (M)</i>	<i>Secchi (M)</i>	<i>Water Temp (C)</i>	<i>DO (mg/L)</i>	<i>DO (%Sat)</i>	<i>pH (SU)</i>	<i>Conductivity (mS/cm)</i>
1	2.7	1	2.7	14.08	6.95	68	6.89	0.251
1	2.7	2	2.7	13.93	6.76	66	6.98	0.251
2	1.3	0.6	1.1	13.3	7.92	76.1	7.25	0.257
3	1.7	1	1.7	11.55	6.64	61.5	7.35	0.273
outlet	0.7	0.7		14.15	8.67	85.1	6.9	0.251

-Secchi measurements are not recorded for outlets.

-A blank Secchi measurement for lake stations means that an accurate measurement could not be recorded.

-A blank parameter result means the parameter could not be measured due to a meter malfunction.

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Lake Profile Raw Data

Season: Spring

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.022	0.304	0.160	0.028	4.19	44.000	75.636	1.65
2	0.027	0.208	0.183	0.024	4.33	40.000	74.186	1.56
3	0.022	0.228	0.180	0.015	4.16	55.000	73.399	1.41
outlet	0.019	0.342	0.150	0.031	4.42	49.000	75.136	2.16

Season: Summer

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.029	0.396	0.005	0.002	7.81	82.000	100.300	1.99
2	0.039	0.449	0.009	0.002	42.92	72.000	99.772	2.89
3	0.068	0.306	0.018	0.014	8.43	59.000	109.600	2.60
outlet	0.031	0.298	0.014	0.003	5.75	80.000	101.400	1.75

Season: Fall

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.025	0.373	0.058	0.022	8.76	53.000	80.395	1.74
2	0.021	0.355	0.049	0.020	7.9	28.000	81.643	1.16
3	0.022	0.253	0.109	0.026	2.33	70.000	90.096	1.49
outlet	0.024	0.294	0.065	0.024	10.82	79.000	81.852	2.11

Sample Device - Horizontal Polycarbonate Sampler

"ND" indicates the result is at a concentration below the analytical method's Reporting Limit (RL). See Volume I, Methods.

-A blank parameter result means the parameter could not be analyzed due to laboratory error.