

AMBIENT LAKE MONITORING NETWORK

Lake Name: Valhalla Lake

County: MORRIS

SiteID: NJW04459-133

Municipality: MONTVILLE 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	4.4	1	3.1	18.13	9.19	98.3	7.85	0.144
1	4.4	2	3.1	17.23	9.16	96.9	7.83	0.145
1	4.4	3	3.1	11.88	9.61	90.1	7.73	0.142
1	4.4	4	3.1	10.93	6.28	57.4	7.53	0.142
2	3.2	1		18.27	9.09	97.6	7.65	0.144
2	3.2	2		18.02	9.14	97.5	7.73	0.145
2	3.2	3		14.11	6.91	68.8	7.74	0.143
outlet	0.1	0.1		18.37	7.65	82.3	7.76	0.145

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	4.6	1	2.4	26.82	7.66	96.1	7.88	0.157
1	4.6	2	2.4	26.68	7.57	94.8	8.08	0.157
1	4.6	3	2.4	26.21	5.36	66.6	7.5	0.157
1A	4.6	4	2.4	20.85	1.66	18.6	7.2	0.155
2	3.1	1	2.5	27.07	7.76	97.9	7.96	0.158
2	3.1	2	2.5	26.87	7.7	96.7	8.04	0.158
2	3.1	3	2.5	26.34	5.82	72.4	7.29	0.157
outlet	0.1	0.1		25.21	5.01	61.1	6.95	0.169

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	4.6	1	1.0	19.13	9.83	108.6	8.25	0.153
1	4.6	2	1.0	18.95	7.34	80.8	7.78	0.153
1	4.6	3	1.0	18.82	5.92	65	7.55	0.155
1	4.6	4	1.0	18.73	5.24	57.4	7.36	0.155
2	3.1	1	1.0	19.05	9.13	100.7	8.39	0.153
2	3.1	2	1.0	18.9	9.26	101.9	8.39	0.153
2	3.1	3	1.0	18.81	8.95	98.3	8.31	0.153
outlet	0.3	0.3		18.9	7.75	85.2	7.45	0.155

-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	0.02	0.330	0.004	0.006	5.27	25.000	39.303	1.43
2	0.019	0.325	0.002	0.011	4.93	22.000	39.221	1.4
outlet	0.021	0.301	0.043	0.023	3.15	23.000	39.635	1.61

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	0.022	0.423	0.007	0.002	8.8	77.000	45.816	1.97
1A	0.033	0.533	0.006	0.002	21.63	37.000	45.983	3.22
2	0.026	0.430	0.010	0.002	9.6	42.000	46.397	2.30
outlet	0.053	0.282	0.208	0.012	2.72	21.000	52.915	2.19

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	0.041	1.070	0.003	0.038	71.03	31.000	46.143	18.2
2	0.045	1.080	0.003	0.028	63.05	44.000	47.553	16.6
outlet	0.049	1.190	0.017	0.036	75.88	55.000	47.180	19.1

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.