

# AMBIENT LAKE MONITORING NETWORK

**Lake Name:** Weston Mill Pond

**County:** MIDDLESEX

**SiteID:** NJW04459-138

**Municipality:** EAST BRUNSWICK 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	4.1	1	1.7	16.25	9.26	93.2	7.08	0.263
1	4.1	2	1.7	13.94	8.72	83.4	7.04	0.253
1	4.1	3	1.7	11.39	3.77	34.1	6.88	0.274
1	4.1	4	1.7	10.18	0.84	7.4	6.65	0.294
1A	4.1	3.5	1.7	10.62	1.3	11.6	6.53	0.285
2	2	1	1.8	16.36	8.76	88.4	6.94	0.269
3	1.9	1	1.9	16.86	8.46	86.2	6.99	0.279
outlet	2.8	2		15.74	9.09	90.4	7.02	0.264

**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	3.9	1	1.4	27.65	6.95	88.4	6.66	0.18
1	3.9	2	1.4	25.99	1.81	22.4	6.24	0.189
1	3.9	3	1.4	19.39	0.4	4.4	6.1	0.226
1A	3.9	3.5	1.4	16.03	0.15	1.6	6.37	0.28
2	2	1	1.3	26.89	6.17	77.4	6.51	0.223
3	2	1	1.8	25.45	1.55	19	6.18	0.187
outlet	2.7	1		27.63	5.27	67.1	6.52	0.171

**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	4.3	1	1.8	19.52	6.32	68.7	6.48	0.152
1	4.3	2	1.8	19.47	6.17	67.1	6.55	0.151
1	4.3	3	1.8	18.58	4.18	44.6	6.51	0.149
1A	4.3	4	1.8	17.27	3.53	36.7	6.46	0.15
2	2.0	1	1.6	19.57	7.07	76.9	6.66	0.159
3	1.9	1	1.5	18.74	6.67	71.3	6.63	0.168
outlet	2.3	1		19.49	7.48	81.3	6.4	0.15

-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	0.027	0.391	0.492	0.017	12.86	20.000	46.201	3.79
1A	0.028	0.496	0.450	0.047	11.03	20.000	44.173	3.79
2	0.028	0.451	0.489	0.028	9.29	20.000	47.900	4.05
3	0.028	0.519	0.505	0.076	4.12	20.000	51.012	3.67
outlet	0.038	0.456	0.496	0.019	10.1	19.000	45.414	4.3

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	0.045	0.718	0.156	0.032	39.55	24.000	36.396	3.57
1A	0.043	0.919	0.041	0.149	38.56	32.000	40.295	7.3
2	0.054	0.832	0.190	0.103	29.98	25.000	40.742	5.07
3	0.06	0.669	0.274	0.135	5.04	18.000	37.907	5.81
outlet	0.043	0.636	0.163	0.085	26.7	20.000	35.418	3.75

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	0.049	0.623	0.263	0.169	5.15	15.000	32.511	4.85
1A	0.037	0.511	0.262	0.191	2.9	8.000	31.237	5.95
2	0.051	0.680	0.251	0.182	5.62	10.000	34.182	4.43
3	0.047	0.610	0.297	0.155	6.53	23.000	35.690	3.38
outlet	0.05	0.593	0.265	0.169	4.58	30.000	32.934	4.69

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.