

AMBIENT LAKE MONITORING NETWORK

Lake Name: Farrington Lake

County: MIDDLESEX

SiteID: NJW04459-060

Municipality: EAST BRUNSWICK TWP

Surface to Bottom Profile

Season: Spring

Station	Tot. Depth (M)	Profile Depth (M)	Secchi (M)	Water Temp (C)	DO (mg/L)	DO (%Sat)	pH (SU)	Conductivity (mS/cm)
1	1.1	0.9	1.1	9.78	9.73	84.8	6.85	0.341
2	3.7	1	1.8	10	10.1	88.6	7.41	0.481
2	3.7	2	1.8	9.39	10.43	90.2	7.37	0.483
2	3.7	3	1.8	8.46	8.55	72.3	7.03	0.539
3	5.5	1	1.8	9.8	10.7	93.4	8.21	0.573
3	5.5	2	1.8	8.87	10.86	92.7	8.08	0.574
3	5.5	3	1.8	8.29	10.15	85.5	7.63	0.576
3	5.5	4	1.8	8.09	9.74	81.6	7.22	0.58
3	5.5	5	1.8	7.87	8.43	70.2	6.7	0.58
outlet	0.4	0.4		11.84	9.4	86.1	10	0.573

Season: Summer

Station	Tot. Depth (M)	Profile Depth (M)	Secchi (M)	Water Temp (C)	DO (mg/L)	DO (%Sat)	pH (SU)	Conductivity (mS/cm)
1	0.5	0.25	0.5	18.37	6.37	67.8	6.41	0.148
2	3.6	1	0.6	20.97	6.63	74.3	6.58	0.139
2	3.6	2	0.6	19.63	6.05	65.9	6.47	0.139
2	3.6	3	0.6	19.07	5.88	63.5	6.41	0.133
3	5.1	1	0.7	20.92	6.02	67.5	6.46	0.143
3	5.1	2	0.7	19.7	4.46	49.4	6.36	0.167
3	5.1	3	0.7	18.36	3.43	36.5	6.31	0.184
3	5.1	4	0.7	15.7	2.11	21.3	6.29	0.243
outlet		0.1		20.74	8.17	91.2	6.95	0.155

Season: Fall

Station	Tot. Depth (M)	Profile Depth (M)	Secchi (M)	Water Temp (C)	DO (mg/L)	DO (%Sat)	pH (SU)	Conductivity (mS/cm)
1	1.1	0.5	0.8	19.39	5.25	56.2	6.23	0.129
2	3.5	1	0.7	20.18	5.31	57.8	6.37	0.126
2	3.5	2	0.7	19.37	4.91	52.4	6.26	0.123
2	3.5	3	0.7	19.15	4.41	47	6.23	0.125
3	5.4	1	0.9	20.74	5.63	61.9	6.63	0.188
3	5.4	2	0.9	20.27	4.93	53.6	6.57	0.194
3	5.4	3	0.9	19.82	4.36	47.1	6.53	0.195
3	5.4	4	0.9	18.97	2.39	25.5	6.41	0.188
3	5.4	5	0.9	16.17	0.48	4.8	6.65	0.369
outlet	0.4	0.4		20.71	7.37	80.9	7.13	0.208

-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	ND	0.333	0.903	0.025	4	6	55.506	4.32
2	ND	0.317	0.806	0.011	7.5	26	58.083	2.64
3	ND	0.331	0.749	0.011	11.1	15	57.017	2.88
outlet	ND	0.302	0.748	0.017	6.6	13	56.147	2.41

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	0.063	0.966	0.336	0.157	3	8	29.713	6.31
2	0.061	0.820	0.394	0.082	31.2	16	27.494	9.61
3	0.06	0.762	0.397	0.133	31.7	16	28.519	8.33
outlet	0.055	0.773	0.404	0.134	36.7	18	29.655	9.37

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	0.046	0.600	0.615	0.100	5.7	14	24.990	8.86
2	0.057	0.525	0.602	0.051	7.1	14	24.470	14.2
3	0.04	0.547	0.379	0.161	14.7	20	34.797	8.35
outlet	ND	0.760	0.311	0.136	23.4	23	39.265	10.9

Sample Device - Horizontal Polycarbonate Sampler

"ND" indicates the result is at a concentration below the analytical method's Reporting Limit (RL). See Volume 1, Methods.

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