

AMBIENT LAKE MONITORING NETWORK

Lake Name: Culvers Lake

County: SUSSEX

SiteID: NJW04459-172

Municipality: FRANKFORD 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	4.7	1	2.9	18.48	8.99	98.6	7.2	0.206
1	4.7	2	2.9	18.14	8.98	97.8	7.45	0.206
1	4.7	3	2.9	17.7	8.64	93.3	7.52	0.206
1	4.7	4	2.9	17.16	7.92	84.4	7.49	0.206
2	10.2	1	2.7	18.83	9.04	99.8	7.9	0.206
2	10.2	2	2.7	18.43	8.91	97.7	7.98	0.206
2	10.2	3	2.7	18.1	8.82	95.9	7.94	0.205
2	10.2	4	2.7	17.76	8.63	93.3	7.82	0.205
2	10.2	5	2.7	14.65	6.97	70.5	7.67	0.204
2	10.2	6	2.7	13.82	6.48	64.3	7.55	0.203
2	10.2	7	2.7	13.08	5.95	58.1	7.44	0.203
2	10.2	8	2.7	12.63	5.58	53.9	7.36	0.203
2	10.2	9	2.7	12.33	5.42	52.1	7.29	0.203
3	12	1	2.8	19.12	9.38	104.2	7.75	0.206
3	12	2	2.8	18.74	9.42	103.8	8.07	0.206
3	12	3	2.8	18.27	9.39	102.5	8.23	0.206
3	12	4	2.8	18.2	9.18	100.2	8.2	0.206
3	12	5	2.8	18	8.78	95.3	8.09	0.206
3	12	6	2.8	13.17	6.46	63.3	7.91	0.203
3	12	7	2.8	11.8	6.05	57.4	7.77	0.203
3	12	8	2.8	11.01	5.77	53.8	7.67	0.203
3	12	9	2.8	9.74	5.67	51.3	7.62	0.203
3	12	10	2.8	8.99	4.74	42.2	7.54	0.204
3	12	11	2.8	8.6	4.2	37	7.35	0.204

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	4.7	1	1.7	26.68	8.44	108.6	8.59	0.18
1	4.7	2	1.7	26.3	8.22	105.1	8.58	0.18
1	4.7	3	1.7	25.97	7.31	92.9	8.19	0.178
1	4.7	4	1.7	18.96	0.68	7.5	7.72	0.181
2	10	1	1.9	26.82	8.16	105.4	8.46	0.18
2	10	2	1.9	26.04	7.9	100.5	8.36	0.179
2	10	3	1.9	25.16	5.75	72.1	8.02	0.178
2	10	4	1.9	21.08	0.81	9.5	7.75	0.178
2	10	5	1.9	17.51	0.46	5	7.57	0.18
2	10	6	1.9	15.19	0.36	3.7	7.47	0.18

-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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Surface to Bottom Profile

2	10	7	1.9	14.2	0.27	2.7	7.36	0.179
2	10	8	1.9	13.61	0.21	2.1	7.25	0.18
2	10	9	1.9	13.15	0.19	1.8	7.17	0.182
3	12	1	2	27.31	8.79	114.4	8.94	0.18
3	12	2	2	26.68	8.25	106.3	8.77	0.179
3	12	3	2	26.01	6.19	79.3	8.3	0.18
3	12	4	2	21.75	0.53	6.2	7.76	0.179
3	12	5	2	17.52	0.33	3.6	7.58	0.18
3	12	6	2	14.39	0.41	4.2	7.48	0.179
3	12	7	2	13.97	0.42	4.2	7.34	0.179
3	12	8	2	13.41	0.18	1.7	7.23	0.179
3	12	9	2	12.15	0.15	1.4	7.16	0.181
3	12	10	2	11.53	0.12	1.1	7.06	0.184
3	12	11	2	10.55	0.1	1	7.02	0.186

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	4.7	1	2.3	11.58	8.57	80.4	7.34	0.207
1	4.7	2	2.3	11.56	8.53	80	7.31	0.206
1	4.7	3	2.3	11.51	8.55	80.2	7.31	0.206
1	4.7	4	2.3	11.46	8.49	79.4	7.3	0.205
2	9.9	1.1	2.4	11.64	8.7	81.7	7.31	0.206
2	9.9	2	2.4	11.55	8.5	79.7	7.29	0.206
2	9.9	3	2.4	11.52	8.31	77.9	7.29	0.206
2	9.9	4	2.4	11.51	8.24	77.2	7.29	0.207
2	9.9	5	2.4	11.51	8.24	77.1	7.29	0.206
2	9.9	6	2.4	11.5	8.22	77	7.28	0.206
2	9.9	7	2.4	11.5	8.15	76.3	7.27	0.206
2	9.9	8	2.4	11.5	8.23	77.1	7.27	0.206
2	9.9	9	2.4	11.48	8.13	76.1	7.26	0.206
3	12.3	1	2.3	11.81	8.13	76.6	7.26	0.208
3	12.3	2	2.3	11.69	7.98	75.1	7.25	0.207
3	12.3	3	2.3	11.49	7.8	73	7.24	0.207
3	12.3	4	2.3	11.47	7.7	72.1	7.22	0.207
3	12.3	5	2.3	11.47	7.67	71.8	7.21	0.207
3	12.3	6	2.3	11.46	7.58	70.9	7.21	0.206
3	12.3	7	2.3	11.46	7.65	71.6	7.2	0.207
3	12.3	8	2.3	11.45	7.65	71.6	7.2	0.207
3	12.3	9	2.3	11.45	7.66	71.7	7.19	0.207
3	12.3	10	2.3	11.45	7.6	71.1	7.19	0.207
3	12.3	11	2.3	11.41	7.53	70.4	7.18	0.207
3	12.3	12	2.3	11.38	7.23	67.6	7.16	0.209

-Secchi measurements are not recorded for outlets.

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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	0.028	0.647	0.006	0.012	9.23	35	42.8	2.62
2	0.03	0.586	0.006	0.014	12.66	42	42.7	2.88
2A	0.018	0.394	0.019	0.030	3.63	37	42	1.15
3	0.027	0.598	0.006	0.014	11.78	25	43	2.51
3A	0.025	0.628	0.635	0.161	1.72	26	42	1.98

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	0.014	0.503	0.00630	0.00778	20.93	82	42.2	3.43
2	0.013	0.552	0.00630	0.00778	20.47	73	41.9	3.13
2A	ND	0.290	0.130	0.0417	2.66	22	41.1	1.61
3	0.01	0.548	0.00630	0.0153	21.32	90	42.1	3.4
3A	0.027	0.388	0.106	0.119	3.35	26	41.9	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	0.02	0.410	0.0207	0.0606	22.79	30	43.1	1.86
2	0.022	0.420	0.0201	0.0659	19.41	26	42.7	1.81
3	0.026	0.374	0.0188	0.0909	14.35	19	43.0	1.83

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.