

AMBIENT LAKE MONITORING NETWORK

Lake Name: Panther Lake

County: SUSSEX

SiteID: NJW04459-289

Municipality: BYRAM 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	2.1	1	1.7	16.51	7.79	80.8	7.78	0.255
1	2.1	2	1.7	16.28	7.51	77.5	8.05	0.255
2	4.7	1	2.3	16.85	7.59	79.3	8.3	0.263
2	4.7	2	2.3	16.15	7.27	74.8	8.29	0.264
2	4.7	3	2.3	12.58	6.56	62.5	8.14	0.283
2	4.7	4	2.3	10.37	4.81	43.2	7.98	0.298

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	2.2	1	2.1	28.39	6.22	82.4	7.36	0.266
2	4.1	1	3.4	28.23	7.53	99.4	7.83	0.268
2	4.1	2	3.4	27.24	7.45	97.1	7.86	0.268
2	4.1	3	3.4	21.49	7.62	88.8	7.73	0.333
2	4.1	3.5	3.4	18.32	8.05	88.1	7.64	0.353
2	4.1	4	3.4	15.65	5.51	57	7.66	0.366

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	2.3	1	2.3	10.23	9.21	83.9	7.56	0.295
1	2.3	2	2.3	10.02	3.92	35.6	7.26	0.303
2	5.2	1	2.6	10.46	7.41	67.9	7.6	0.309
2	5.2	2	2.6	10.21	6.66	60.7	7.66	0.309
2	5.2	3	2.6	10.06	6.49	58.9	7.68	0.308
2	5.2	4	2.6	10.04	6.23	56.5	7.68	0.309
2	5.2	5	2.6	10.21	0.57	5.3	7.31	0.422

-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	0.03	0.642	0.0063	0.0078	12.68	69	134	2.15
2	0.023	0.473	0.0063	0.00778	8.22	135	141	2.01
2A	0.034	0.566	0.0063	0.0078	20.93	39	156	3.68

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	ND	0.455	0.00630	0.00778	5.13	110	141	1.28
2	0.01	0.412	0.00630	0.00778	4.54	75	141	1.12
2A	ND	0.395	0.00630	0.00778	7.44	105	161	1.5

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	0.038	0.517	0.00790	0.0645	9.36	130	167	1.35
2	0.034	0.575	0.0134	0.124	9.91	140	172	1.62

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.