

# AMBIENT LAKE MONITORING NETWORK

**Lake Name:** Ravine Lake

**County:** SOMERSET

**SiteID:** NJW04459-135

**Municipality:** PEAPACK GLADSTONE BORO

## 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	2.1	1	2.1	6.52	11.85	96.1	7.24	0.26
2	5.6	1	3.4	7.08	11.76	96.7	8.14	0.257
2	5.6	2	3.4	6.71	11.83	96.4	8.09	0.255
2	5.6	3	3.4	6.43	11.86	95.9	8.01	0.253
2	5.6	4	3.4	5.91	12.03	96	7.96	0.255
outlet	0.1	0.1		7	13.07	107.3	10.9	0.255

**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	0.9	0.5	0.7	24.32	6.75	81.4	7.07	0.172
2	4.5	1	0.6	22.28	6.22	72.2	6.7	0.176
2	4.5	2	0.6	21.02	5.71	64.7	6.66	0.152
2	4.5	3	0.6	18.47	5.48	59	6.6	0.186
2A	4.5	4	0.6	13.08	2.35	22.5	6.67	0.235
outlet	0.1	0.1		22.3	8.65	100.5	6.49	0.16

**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	0.9	0.5	0.9	20.06	9.11	100.2	7.36	0.267
2	4.6	1	3.9	20.49	8.68	96.2	7.55	0.245
2	4.6	2	3.9	19.74	7.22	79.8	7.35	0.253
2	4.6	3	3.9	19.04	3.89	39.3	7.04	0.244
2	4.6	4	3.9	17.91	0.39	4.1	6.82	0.255
outlet	0.1	0.1		21.29	8.17	92	7.94	0.248

-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	0.018	0.097	1.130	0.015	1.63	35.000	74.596	1.55
2	0.013	0.062	1.120	0.013	1.93	24.000	73.558	1.51
outlet	0.021	0.061	1.120	0.011	1.83	28.000	72.318	1.36

### 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	0.064	0.513	0.487	0.099	7.3	39.000	58.850	10.2
2	0.061	0.590	0.482	0.106	11.99	32.000	57.772	12.6
2A	0.073	0.763	0.475	0.197	5.26	50.000	66.765	12.6
outlet	0.072	0.722	0.466	0.114	11.77	42.000	54.124	16.4

### 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	0.048	0.761	0.610	0.129	37.75	42.000	91.888	6.18
2	0.038	0.637	0.568	0.054	58.59	34.000	84.887	3.00
outlet	0.022	0.437	0.568	0.034	18.97	45.000	82.315	2.62

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.