

AMBIENT LAKE MONITORING NETWORK

Lake Name: Crystal Lake

County: BERGEN

SiteID: NJW04459-159

Municipality: OAKLAND 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	4.3	1	1.3	15.97	13.99	142.3	9.11	0.592
1	4.3	2	1.3	13.37	11.92	114.7	8.91	0.588
1	4.3	3	1.3	12.73	7.24	68.6	8.25	0.593
1	4.3	4	1.3	12.02	1.49	13.9	7.84	0.6
outlet	0.1	0.1		18.18	11.17	119	8.77	0.592

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	4.4	1	0.5	25.01	11.29	137.6	8.93	0.461
1	4.4	2	0.5	23.41	2.57	30.3	7.79	0.482
1	4.4	3	0.5	20.26	0.12	1.3	7.4	0.569
1A	4.4	4	0.5	15.31	0.07	0.7	7.01	0.638
outlet	0.2	0.2		27.55	10.54	134.6	9.68	0.443

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	4.2	1		8.86	7.61	65.3	7.43	0.501
1	4.2	2		8.76	7.68	65.7	7.46	0.501
1	4.2	3		8.65	7.5	63.9	7.46	0.501
1	4.2	4		7.86	8.94	74.7	7.51	0.513
outlet	0.4	0.4		8.89	9.82	84.3	7.32	0.501

-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	0.119	0.684	1.170	0.086	17.53	120.0	220.700	2.92
outlet	0.217	1.140	1.010	0.137	18.02	69.000	218.500	2.64

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	0.069	0.979	0.011	0.003	114.11	83.000	118.100	9.68
1A	0.305	2.320	0.104	1.620	109.87	65.000	143.500	11.7
outlet	0.036	0.823	0.020	0.005	67.79	75.000	116.600	7.11

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	0.071	0.640	0.774	0.107	8.57	69.000	148.800	5.05
outlet	0.056	0.521	0.769	0.103	8.57	45.000	147.000	5.01

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.