

# AMBIENT LAKE MONITORING NETWORK

Lake Name: Liberty Lake

County: WARREN

SiteID: NJW04459-246

Municipality: LIBERTY 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	2.2	1	1.5	15.66	12.51	129.3	9.77	0.171
1	2.2	2	1.5	13.97	6.68	66.5	8.56	0.183
outlet	0.3	0.3		19.21	9.72	108.1	9.67	0.175

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	2.1	1	1.1	24.65	3.75	46.6	7.51	0.247
1	2.1	2	1.1	23.45	0.96	11.5	6.9	0.341
outlet	0.1	0.1		25.21	6.64	81.5	7.71	0.245

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	2.2	1	2	8.44	8.53	74.2	7.67	0.209
1	2.2	2	2	8.66	3.2	28	7.23	0.209
outlet	0.3	0.3		8.58	9.7	84.9	7.52	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	0.028	0.448	0.006	0.006	7	68	91.120	3.73
outlet	0.02	0.373	0.006	0.018	11.3	69	89.385	3.49

### 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	0.057	0.736	0.006	0.009	50.4	96	113.6	5.79
outlet	0.052	0.520	0.038	0.032	11.4	95	109.4	2.1

### 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	0.016	0.283	0.009	0.037	2.4	89.800	123.7	2.48
outlet	ND	0.233	0.023	0.019	5.1	90.800	122.8	1.64

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.