

# AMBIENT LAKE MONITORING NETWORK

**Lake Name:** Echo Lake  
**SiteID:** NJW04459-072

**County:** PASSAIC  
**Municipality:** WEST MILFORD 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	9.1	1	1.1	14.76	8.21	81.4	7.43	0.155
1	9.1	3	1.1	14.65	8.05	79.6	7.12	0.156
1	9.1	6	1.1	13.89	6.21	60.3	6.92	0.157
1	9.1	7	1.1	11.3	0.98	9	6.31	0.161
2	10.1	1	1.1	14.91	8.2	81.6	7.12	0.155
2	10.1	3	1.1	14.87	7.67	76.2	7.14	0.156
2	10.1	6	1.1	13.58	6.83	67.4	6.99	0.158
2	10.1	7	1.1	12.3	1.78	16.8	6.85	0.16
outlet 1	0.1	0.1		12.01	5.76	53.7	6.79	0.257
outlet 2	0.1	0.1		16.45	7.98	82.3	7.82	0.166

**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	9.2	1	1.7	25.26	7.34	91	7.87	0.136
1	9.2	2	1.7	24.83	7.24	89	7.81	0.137
1	9.2	3	1.7	24.62	6.98	85.6	7.69	0.137
1	9.2	4	1.7	22.57	2.79	32.8	7.08	0.136
1	9.2	5	1.7	17.11	1.51	16	6.96	0.144
1	9.2	6	1.7	14.46	0.42	4.2	6.82	0.148
1	9.2	7	1.7	12.9	0.3	2.8	6.71	0.154
1	9.2	8	1.7	11.96	0.19	1.8	6.67	0.163
2	7.7	1	1.6	25.37	6.97	86.6	7.84	0.137
2	7.7	2	1.6	25.16	6.66	82.2	7.57	0.137
2	7.7	3	1.6	24.62	3.9	47.8	6.87	0.137
2	7.7	4	1.6	22.97	0.83	9.9	6.79	0.137
2	7.7	5	1.6	16.17	0.3	3.1	6.83	0.146
2	7.7	6	1.6	13.31	0.39	3.8	6.83	0.153
2	7.7	7	1.6	12.36	0.62	5.9	6.88	0.16

**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	9.2	1	1.4	14.84	6.58	66.7	7.46	0.132
1	9.2	2	1.4	14.53	5.8	58.4	7.16	0.132
1	9.2	3	1.4	14.34	5.32	53.4	7.02	0.132
1	9.2	4	1.4	14.22	4.82	48.3	6.96	0.132
1	9.2	5	1.4	14.18	4.92	49.1	6.94	0.133
1	9.2	6	1.4	14.15	4.92	49.2	6.91	0.132
1	9.2	7	1.4	14.01	5.12	51	6.9	0.132
1	9.2	8	1.4	13.86	2.72	27	6.81	0.136
2	8.1	1	1.3	14.88	6.71	68	7.15	0.132
2	8.1	2	1.3	14.46	5.9	59.4	7.07	0.132
2	8.1	3	1.3	14.27	5.65	56.7	7.03	0.132
2	8.1	4	1.3	14.19	5.29	52.9	6.97	0.132
2	8.1	5	1.3	14.06	5.07	50.6	6.93	0.132
2	8.1	6	1.3	14.03	5.11	50.8	6.91	0.133
2	8.1	7	1.3	14	5.1	50.8	6.89	0.133
outlet 2	0.2	0.2		14.84	7.66	77.7	7.54	0.143

-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.

# AMBIENT LAKE MONITORING NETWORK

Lake Name: Echo Lake  
SiteID: NJW04459-072

County: PASSAIC  
Municipality: WEST MILFORD TWP

## 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	0.016	0.585	0.006	0.008	18.1	18	37.807	3.54
2	0.024	0.662	0.006	0.007	19.4	20	36.754	3.53
outlet 1	0.049	0.673	0.093	0.004	41.6	97	127.1	3.67
outlet 2	0.035	0.769	0.015	0.014	17.5	20	38.279	3.69

### 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	0.032	.621	.0082	.011	13	21	38.034	4.31
2	0.041	.673	.0084	.012	13.1	21	37.529	2.92

### 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	0.037	0.687	0.014	0.092	23.7	24	39.076	2.23
2	0.041	0.777	0.012	0.086	32.2	25	38.570	2.57
outlet 2	0.041	0.735	0.036	0.068	25.9	28	41.653	2.42

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.