

# AMBIENT LAKE MONITORING NETWORK

Lake Name: Lake Tranquility

County: SUSSEX

SiteID: NJW04459-255

Municipality: GREEN 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	3.1	1	2	20.56	10.16	113.3	8.66	0.367
1	3.1	2	2	20.03	10.1	111.5	8.61	0.369
1	3.1	3	2	17.78	2.6	27.3	7.73	0.378
2	2.3	1	1.1	20.45	13.08	145.4	8.78	0.385
2	2.3	2	1.1	17.59	4.2	44.2	7.25	0.548
outlet	0.2	0.2		20.64	8.8	98.2	8.41	0.365

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	3.2	1	1	25.64	8.43	105.2	8.45	0.361
1	3.2	2	1	25.54	7.25	90.5	8.29	0.363
1	3.2	3	1	24.92	1.43	17.6	7.43	0.376
2	2.2	1	1.2	25.62	8.83	110.3	8.45	0.364
2	2.2	2	1.2	23.9	3.35	40.5	7.54	0.42
outlet	0.2	0.2		25.54	7.29	90.9	8.39	0.359

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	3.0	1	3.0	13.36	11.7	112.2	8.98	0.296
1	3.0	2	3.0	13.33	11.95	114.5	9.01	0.295
2	2.0	1	1.2	11.55	10.05	92.6	8.2	0.324
outlet	0.3	0.3		12.48	10.63	99.9	8.67	0.294

-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: Lake Tranquility  
SiteID: NJW04459-255

County: SUSSEX  
Municipality: GREEN 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	0.037	0.621	0.161	0.005	8.1	135.0	163.700	1.91
2	0.043	0.693	0.180	0.005	7.8	150.0	173.600	2.01
outlet	0.043	0.803	0.157	0.007	9.9	159.0	164.800	1.94

### 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	0.035	0.656	0.043	0.013	24.78	135.0	163.800	2.6
2	0.037	0.525	0.050	0.018	19	1.000	166.700	2.53
outlet	0.037	0.541	0.042	0.027	20.01	122.0	164.100	2.51

### 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	0.011	0.315	0.042	0.031	5.47	95.000	146.600	1.02
2	0.012	0.348	0.269	0.034	9.5	102.0	164.600	1.29
outlet	ND	0.317	0.034	0.034	5.05	84.000	146.900	0.63

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.