

AMBIENT LAKE MONITORING NETWORK

Lake Name: Sunset Lake

County: CUMBERLAND

SiteID: NJW04459-120

Municipality: UPPER DEERFIELD TWP

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	1	0.5	0.8	8.71	9.31	78.9	5.93	0.175
2	1.9	1	0.6	8.54	10.57	89.2	6.44	0.159
3	1.2	0.5	0.4	8.75	9.98	84.7	6.64	0.151
outlet	1	1		8.98	10.24	87.3	6.7	0.16

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	1	0.5	0.8	19.65	6	65.4	6.49	0.179
2	1.9	1	0.8	22.11	7.84	89.7	6.88	0.173
3	1.1	0.5	0.9	22.32	7.83	89.9	6.87	0.169
outlet		0.2		21.47	7.3	82.5	6.1	0.174

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	1	0.5	1	23.21	7.09	81.6	6.83	0.189
2	1.8	1	1.5	24.59	10.41	123.2	8.19	0.186
3	1.1	0.5	1	24.49	7.83	92.6	7.26	0.172
outlet	0.3	0.3		23.39	7.64	88.5	6.04	0.184

-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 Name: Sunset Lake

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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	0.068	0.411	4.820	0.073	9.7	11.200	58.074	14.9
2	0.083	0.372	3.620	0.104	14.5	11.200	50.255	20.7
3	0.133	0.544	3.170	0.157	21.6	13.300	48.692	32.6
outlet	0.07	0.282	3.890	0.087	12.2	10.200	49.024	15.6

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	0.054	0.650	3.720	0.024	14.2	14.000	63.122	6.95
2	0.057	0.641	3.380	0.006	27.4	24.000	61.258	8.97
3	0.061	0.686	0.017	0.024	24.7	17.000	58.944	7.26
outlet	0.053	0.663	0.017	0.014	22.5	13.000	60.141	7.31

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	0.025	0.404	3.680	0.031	11.54	19.000	63.039	3.48
2	0.021	0.853	3.410	0.023	11.13	70.000	63.163	3.55
3	0.023	0.469	2.490	0.033	13.88	18.000	60.517	5.60
outlet	0.014	0.456	3.560	0.032	10.49	21.000	62.126	3.28

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.