

AMBIENT LAKE MONITORING NETWORK

Lake Name: Lefferts Lake

County: MONMOUTH

SiteID: NJW04459-080

Municipality: MATAWAN 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 | 3.6 | 1 | 3.2 | 16.7 | 8.12 | 83.7 | 5.33 | 0.307 |
| 1 | 3.6 | 2 | 3.2 | 16.68 | 8.18 | 84.2 | 5.37 | 0.308 |
| 1 | 3.6 | 3 | 3.2 | 16.69 | 7.76 | 79.9 | 5.38 | 0.308 |
| 2 | 2 | 1 | 1.6 | 16.81 | 6.82 | 70.6 | 5.03 | 0.262 |
| outlet | 0.8 | 0.5 | | 16.17 | 8.54 | 88.8 | 6.4 | 5.26 |

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 | 2.9 | 1 | 2.8 | 29.37 | 6.82 | 89.2 | 7.01 | 0.167 |
| 1 | 2.9 | 2 | 2.8 | 28.69 | 7.08 | 91.4 | 6.85 | 0.166 |
| 2 | 1.8 | 1 | 1.8 | 29.26 | 7.98 | 103.9 | 6.71 | 0.162 |

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 | 3.6 | 1 | 1.8 | 21.34 | 8.39 | 95.8 | 7.16 | 0.147 |
| 1 | 3.6 | 2 | 1.8 | 20.35 | 6.25 | 70 | 7.16 | 0.16 |
| 1 | 3.6 | 3 | 1.8 | 20.01 | 5.67 | 63.1 | 7.35 | 0.162 |
| 2 | 1.3 | 1 | 1.2 | 20.7 | 8.81 | 99.3 | 7.33 | 0.154 |

-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: Lefferts Lake
SiteID: NJW04459-080

County: MONMOUTH
Municipality: MATAWAN BORO

Lake Profile Raw Data

Season: Spring

| <i>Station</i> | <i>Tot Phos</i> (mg/L) | <i>TKN</i> (mg/L) | <i>Nitrite-Nitrate</i> (mg/L) | <i>Ammonia-N</i> (mg/L) | <i>Chl a</i> (ug/L) | <i>Alk</i> (ppm) | <i>Hard</i> (ppm) | <i>Turbidity</i> (NTU) |
|----------------|---------------------------|----------------------|----------------------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|
| 1 | ND | 0.337 | 0.346 | 0.247 | 0.2 | 1 | 50.745 | 1.25 |
| 2 | ND | 0.495 | 0.247 | 0.262 | 1.4 | 1 | 46.969 | 3.99 |
| outlet | ND | 0.558 | 0.305 | 0.218 | 2.5 | 13 | 533.6 | 2.65 |

Season: Summer

| <i>Station</i> | <i>Tot Phos</i> (mg/L) | <i>TKN</i> (mg/L) | <i>Nitrite-Nitrate</i> (mg/L) | <i>Ammonia-N</i> (mg/L) | <i>Chl a</i> (ug/L) | <i>Alk</i> (ppm) | <i>Hard</i> (ppm) | <i>Turbidity</i> (NTU) |
|----------------|---------------------------|----------------------|----------------------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|
| 1 | 0.03 | 0.231 | 0.245 | 0.015 | 3.5 | 11 | 45.074 | 1.03 |
| 2 | 0.007 | 0.246 | 0.161 | 0.011 | 4.4 | 10 | 44.040 | 1.84 |

Season: Fall

| <i>Station</i> | <i>Tot Phos</i> (mg/L) | <i>TKN</i> (mg/L) | <i>Nitrite-Nitrate</i> (mg/L) | <i>Ammonia-N</i> (mg/L) | <i>Chl a</i> (ug/L) | <i>Alk</i> (ppm) | <i>Hard</i> (ppm) | <i>Turbidity</i> (NTU) |
|----------------|---------------------------|----------------------|----------------------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|
| 1 | 0.016 | 0.284 | 0.413 | 0.036 | 6.1 | 9 | 37.950 | 3.15 |
| 2 | 0.009 | 0.375 | 0.442 | 0.058 | 5.9 | 10 | 43.178 | 6.92 |

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.