

# AMBIENT LAKE MONITORING NETWORK

Lake Name: Kohout Lake

County: SUSSEX

SiteID: NJW04459-269

Municipality: VERNON TWP

## Surface to Bottom Profile

Season: Spring

| Station | Tot. Depth<br>(M) | Profile Depth<br>(M) | Secchi<br>(M) | Water Temp<br>(C) | DO<br>(mg/L) | DO<br>(%Sat) | pH<br>(SU) | Conductivity<br>(mS/cm) |
|---------|-------------------|----------------------|---------------|-------------------|--------------|--------------|------------|-------------------------|
| 1       | 2.5               | 1                    | 1.9           | 17.34             | 8.93         | 95           | 6.41       | 0.132                   |
| 1A      | 2.5               | 2                    | 1.9           | 12                | 6.48         | 62           | 6.33       | 0.134                   |
| outlet  | 0.5               | 0.1                  |               | 18.33             | 10.13        | 110.6        | 6.61       | 0.132                   |

Season: Summer

| Station | Tot. Depth<br>(M) | Profile Depth<br>(M) | Secchi<br>(M) | Water Temp<br>(C) | DO<br>(mg/L) | DO<br>(%Sat) | pH<br>(SU) | Conductivity<br>(mS/cm) |
|---------|-------------------|----------------------|---------------|-------------------|--------------|--------------|------------|-------------------------|
| 1       | 2.2               | 1                    | 0.9           | 20.64             | 6.82         | 78.7         | 6.36       | 0.161                   |
| 1A      | 2.2               | 2                    | 0.9           | 17.07             | 0.21         | 2.2          | 6.47       | 0.22                    |

Season: Fall

| Station | Tot. Depth<br>(M) | Profile Depth<br>(M) | Secchi<br>(M) | Water Temp<br>(C) | DO<br>(mg/L) | DO<br>(%Sat) | pH<br>(SU) | Conductivity<br>(mS/cm) |
|---------|-------------------|----------------------|---------------|-------------------|--------------|--------------|------------|-------------------------|
| 1       | 2.5               | 1                    | 0.5           | 5.34              | 7.38         | 59.6         | 6.19       | 0.143                   |
| 1       | 2.5               | 2                    | 0.5           | 4.9               | 5.54         | 44.3         | 5.96       | 0.137                   |
| outlet  | 0.3               | 0.3                  |               | 5.99              | 9.88         | 81.1         | 6.27       | 0.145                   |

-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: Kohout Lake

County: SUSSEX

SiteID: NJW04459-269

Municipality: VERNON TWP

## Lake Profile Raw Data

Season: Spring

| Station | Tot Phos<br>(mg/L) | TKN<br>(mg/L) | Nitrite-Nitrate<br>(mg/L) | Ammonia-N<br>(mg/L) | Chl a<br>(ug/L) | Alk<br>(ppm) | Hard<br>(ppm) | Turbidity<br>(NTU) |
|---------|--------------------|---------------|---------------------------|---------------------|-----------------|--------------|---------------|--------------------|
| 1       | 0.033              | 0.567         | 0.009                     | 0.004               | 12.41           | 14.000       | 31.516        | 2.43               |
| 1A      | 0.033              | 0.515         | 0.007                     | 0.002               | 11.72           | 10.000       | 31.707        | 2.2                |
| outlet  | 0.043              | 0.556         | 0.011                     | 0.007               | 12.66           | 12.000       | 31.499        | 2.6                |

Season: Summer

| Station | Tot Phos<br>(mg/L) | TKN<br>(mg/L) | Nitrite-Nitrate<br>(mg/L) | Ammonia-N<br>(mg/L) | Chl a<br>(ug/L) | Alk<br>(ppm) | Hard<br>(ppm) | Turbidity<br>(NTU) |
|---------|--------------------|---------------|---------------------------|---------------------|-----------------|--------------|---------------|--------------------|
| 1       | 0.048              | 0.995         | 0.008                     | 0.011               | 47.63           | 39.000       | 41.005        | 4.86               |
| 1A      | 0.063              | 1.300         | 0.013                     | 0.058               | 35.23           | 21.000       | 43.517        | 6.08               |

Season: Fall

| Station | Tot Phos<br>(mg/L) | TKN<br>(mg/L) | Nitrite-Nitrate<br>(mg/L) | Ammonia-N<br>(mg/L) | Chl a<br>(ug/L) | Alk<br>(ppm) | Hard<br>(ppm) | Turbidity<br>(NTU) |
|---------|--------------------|---------------|---------------------------|---------------------|-----------------|--------------|---------------|--------------------|
| 1       | 0.07               | 0.777         | 0.003                     | 0.033               | 8.77            | 27.000       | 37.608        | 4.77               |
| outlet  | 0.073              | 0.810         | 0.005                     | 0.046               | 12.01           | 21.000       | 38.198        | 5.28               |

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.