



**Hemlock and Canadice Lakes – City of Rochester Watershed Production and Climate Data- 2020**

| Month | Average Lake Levels (ft) |          | Total Spill Volumes (MG)   |                            |                              | Total Plant Withdrawal (MG) | Precipitation Totals (Inches) |          |             | Watershed Yield (MG) | Avg. Air Temp (°F)* |     |
|-------|--------------------------|----------|----------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|----------|-------------|----------------------|---------------------|-----|
|       | Hemlock                  | Canadice | Hemlock Spills at 902.8 ft | Canadice into Hemlock Lake | Canadice into Hemlock Outlet |                             | Hemlock                       | Canadice | Springwater |                      | Min                 | Max |
| Jan   | 899.27                   | 1095.07  | 0.0                        | 487.44                     | 0.0                          | 1095.07                     | 1.48                          | 1.85     | NA          | 1715                 | 24                  | 38  |
| Feb   | 900.08                   | 1098.95  | 0.0                        | 468.69                     | 0.0                          | 1045.33                     | 2.49                          | 1.86     | 3.02        | 1698                 | 22                  | 36  |
| Mar   | 902.37                   | 1098.97  | 247.48                     | 765.23                     | 0.26                         | 1078.33                     | 2.36                          | 2.11     | NA          | 3079                 | 30                  | 49  |
| Apr   | 903.08                   | 1098.96  | 1207.02                    | 487.93                     | 0.0                          | 992.59                      | 2.08                          | 2.08     | NA          | 2061                 | 33                  | 51  |
| May   | 902.1                    | 1098.87  | 1345.74                    | 445.39                     | 0.00                         | 936.53                      | 2.99                          | 3.76     | NA          | 1931                 | 66                  | 66  |
| Jun   | 902.26                   | 1098.70  | 43.43                      | 40.11                      | 0.00                         | 1174.44                     | 2.31                          | 2.40     | NA          | 339                  | 56                  | 79  |

Note: Watershed yield is the amount of precipitation that falls within the watershed that ultimately flows into both lakes. Average air temperature data collected from NOAA weather station located at the filtration plant.

**Watershed/Project Updates:**

1. Two HABs events were discovered on Hemlock Lake on 6/26 (small localized near shore bloom) and 7/2/20 (large localized near shore bloom). Both blooms are no longer active. No blooms have been observed on Canadice Lake to date.
2. The laboratory has obtained an Abraxis 4303 Microplate Reader and will develop the capability to analyze for three different algal toxins: Total Microcystin/Nodularins, Anatoxin-a, and Cylindropspermopsin. Our goal will be to eventually seek accreditation from NYS-DOH ELAP for Method 546 (Total Microcystins).
3. The laboratory began CSLAP sampling in June.