

**Preliminary 2015 Water Quality Monitoring Data for  
Long Lake/ Lake County/ RTJ**

| Date             | Station Code | Depth | Alkalinity        | Chloride    | Inorganic N<br>(Nitrate and Nitrite) | TKN<br>(Total Kjeldahl Nitrogen) | Ammonia      | Total Phosphorus | Total Suspended Solids | Volatile Suspended Solids |
|------------------|--------------|-------|-------------------|-------------|--------------------------------------|----------------------------------|--------------|------------------|------------------------|---------------------------|
|                  |              |       | mg/L              | mg/L        | mg/L                                 | mg/L                             | mg/L         | mg/L             | mg/L                   | mg/L                      |
| Method Code:     |              |       | 310.2             | 4500-Cl-(E) | 353.2                                | 351.2                            | 350.1        | 365.1            | 2540-D                 | 160.4                     |
| Reporting limit: |              |       | 10                | 1 - 3       | 0.100                                | 0.5                              | 0.1          | 0.005            | 4                      | 4                         |
| 5/3/2015         | RTJ-1        | 1     | 217 <sup>J3</sup> | 197         | 0.423                                | 1.18                             | 0.16         | 0.043            | <4                     | 4                         |
| 6/28/2015        | RTJ-1        | 1     | 213               | 173         | 0.151                                | 1.15                             | <.10         | 0.087            | 9                      | 11 <sup>V</sup>           |
| 8/30/2015        | RTJ-1        | 1     | 179               | 145         | <0.100                               | 2.94 <sup>J3</sup>               | <.10         | 0.289            | 28                     | 27 <sup>V</sup>           |
| <i>Average</i>   |              |       | <i>203</i>        | <i>172</i>  | <i>0.287*</i>                        | <i>1.76</i>                      | <i>0.12*</i> | <i>0.140</i>     | <i>14*</i>             | <i>14</i>                 |

**Site 1: RTJ-1**

| Month          | Secchi<br>(average) | Secchi<br>(average) |
|----------------|---------------------|---------------------|
|                | in                  | ft                  |
| May            | 110                 | 9.2                 |
| June           | 66                  | 5.5                 |
| July           | 40                  | 3.3                 |
| August         | 20.5                | 1.7                 |
| September      | 30.5                | 2.5                 |
| October        | 40                  | 3.3                 |
| <i>Average</i> | <i>51.2</i>         | <i>4.3</i>          |

**Site 2: RTJ-2**

| Month          | Secchi (average) | Secchi<br>(average) |
|----------------|------------------|---------------------|
|                | in               | ft                  |
| May            | 101              | 8.4                 |
| June           | 67               | 5.6                 |
| July           | 37               | 3.1                 |
| August         | 21               | 1.8                 |
| September      | 26               | 2.2                 |
| October        | 39               | 3.3                 |
| <i>Average</i> | <i>48.5</i>      | <i>4.0</i>          |

**Site 3: RTJ-3**

| Month          | Secchi<br>(average) | Secchi<br>(average) |
|----------------|---------------------|---------------------|
|                | in                  | ft                  |
| May            | 88.5                | 7.4                 |
| June           | 55                  | 4.6                 |
| July           | 29                  | 2.4                 |
| August         | 17.5                | 1.5                 |
| September      | 24.5                | 2.0                 |
| October        | 36                  | 3.0                 |
| <i>Average</i> | <i>41.8</i>         | <i>3.5</i>          |

**Key**

If there is a superscript next to a concentration value, it represents an IEPA lab qualifier. Qualifiers are listed below.

J3 = The reported value failed to meet the established quality control criteria for either precision or accuracy possibly due to matrix effects

V = Indicates the analyte was detected in the associated method blank and was outside method blank acceptance criteria

\* = At least one sample was below the reporting limit, therefore the actual average is most likely lower than the number displayed.

**Notes:**

Water sample analyses conducted at Illinois EPA's Springfield laboratory

Water samples and Secchi data collected by VLMP volunteer lake monitor RJ Ringa III

Data tabulated by Alana Bartolai, Lake County Illinois VLMP Coordinator, Lake County Health Department

**All data is considered PRELIMINARY until undergoing QA/QC checks by Illinois EPA**