

TABLE S12. Transect sites water and habitat characteristics. The results are grouped by lake.

|            | Sampling_ID | Temperature<br>(°C) | Conductivity<br>(µS/cm) | Dissolved<br>oxygen (%) | Turbidity<br>(NTU) | pH   | TOC<br>(mg/L) | TN<br>(mg/L) | TP<br>(mg/L) | Trunk | Silt<br>(%) | Sand<br>(%) | Rock<br>(%) | Boulder<br>(%) | Macrophyte<br>(%) | Mean<br>depth<br>(cm) |
|------------|-------------|---------------------|-------------------------|-------------------------|--------------------|------|---------------|--------------|--------------|-------|-------------|-------------|-------------|----------------|-------------------|-----------------------|
| Achigan    | ACHI_T_01   | 25.2                | 56.6                    | 8.37                    | 0.06               | 7.25 | 4.75          | 232.49       | 4.3049       | 15    | 0.0         | 5.0         | 74.8        | 20.2           | 3.8               | 118.5                 |
|            | ACHI_T_02   | 24.3                | 55.2                    | 8.55                    | 0.38               | 7.38 | 4.67          | 259.85       | 6.2188       | 13    | 4.0         | 1.5         | 83.5        | 11.0           | 1.4               | 79.0                  |
|            | ACHI_T_03   | 24.5                | 55.7                    | 8.66                    | 0.17               | 7.56 | 4.75          | 299.75       | 5.8841       | 26    | 28.7        | 0.0         | 20.8        | 49.5           | 6.9               | 115.0                 |
|            | ACHI_T_04   | 24.5                | 55.6                    | 8.67                    | 0.18               | 7.38 | 4.67          | 238.19       | 5.4528       | 9     | 0.0         | 0.0         | 67.0        | 33.0           | 0.2               | 147.0                 |
|            | ACHI_T_05   | 23.6                | 56.1                    | 8.78                    | 0.24               | 6.83 | 4.78          | 242.75       | 6.6700       | 1     | 9.0         | 43.8        | 45.6        | 1.6            | 36.7              | 37.5                  |
|            | ACHI_T_06   | 24.3                | 55.9                    | 8.60                    | 0.16               | 6.98 | 4.83          | 240.47       | 4.7597       | 12    | 0.0         | 11.5        | 72.8        | 15.7           | 2.2               | 66.0                  |
| Beaver     | BEAV_T_01   | 23.0                | 26.0                    | 8.87                    | 1.78               | 6.60 | 9.15          | 487.85       | 18.4269      | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
|            | BEAV_T_02   | 22.7                | 26.0                    | 8.82                    | 1.88               | 6.77 | 9.17          | 499.25       | 19.4058      | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
| Coeur      | COEU_T_03   | 23.0                | 53.4                    | 8.26                    | 0.20               | 7.13 | 5.60          | 331.67       | 7.3317       | 9     | 33.9        | 0.0         | 20.5        | 45.6           | 9.0               | 80.0                  |
|            | COEU_T_04   | 22.8                | 53.2                    | 8.26                    | 0.28               | 6.78 | 5.64          | 341.93       | 6.9554       | 79    | 57.0        | 0.0         | 15.9        | 27.1           | 10.6              | 108.0                 |
|            | COEU_T_01   | 23.6                | 53.8                    | 8.37                    | 0.29               | 7.38 | 5.75          | 419.45       | 9.5510       | 80    | 43.0        | 0.0         | 27.5        | 29.5           | 2.3               | 187.5                 |
|            | COEU_T_02   | 23.3                | 53.5                    | 8.38                    | 0.33               | 7.25 | 5.63          | 370.43       | 8.4576       | 16    | 36.5        | 0.0         | 29.8        | 33.7           | 22.0              | 62.5                  |
| Cornu      | CORN_T_01   | 22.6                | 147.8                   | 8.69                    | 0.74               | 7.33 | 3.97          | 324.83       | 6.9125       | 380   | 62.0        | 0.0         | 1.0         | 37.0           | 0.0               | 370.0                 |
|            | CORN_T_02   | 22.5                | 149.6                   | 8.00                    | 0.41               | 6.87 | 4.05          | 292.91       | 7.6265       | 45    | 100.0       | 0.0         | 0.0         | 0.0            | 25.0              | 39.5                  |
|            | CORN_T_03   | 22.6                | 152.3                   | 8.10                    | 1.34               | 6.77 | 4.05          | 374.99       | 13.9793      | 11    | 97.4        | 0.0         | 0.0         | 2.6            | 75.5              | 44.5                  |
|            | CORN_T_04   | 22.6                | 147.8                   | 9.10                    | 0.13               | 7.61 | 4.13          | 357.89       | 8.7511       | 18    | 18.0        | 0.0         | 65.5        | 16.5           | 14.9              | 45.0                  |
| Corriveau  | CORR_T_01   | 20.3                | 19.1                    | 8.06                    | 0.49               | 5.76 | 8.42          | 400.07       | 12.4658      | 108   | 77.5        | 0.0         | 14.0        | 8.5            | 35.0              | 107.0                 |
|            | CORR_T_02   | 21.0                | 19.1                    | 8.27                    | 0.39               | 6.10 | 8.25          | 394.37       | 14.9332      | 33    | 57.5        | 6.0         | 12.0        | 24.5           | 27.5              | 89.5                  |
| Croche     | CROC_T_01   | 21.3                | 14.2                    | 7.84                    | 0.38               | 6.09 | 6.36          | 332.81       | 7.0791       | 52    | 100.0       | 0.0         | 0.0         | 0.0            | 39.5              | 73.5                  |
|            | CROC_T_04   | 21.9                | 14.3                    | 8.20                    | 0.19               | 5.89 | 5.39          | 260.99       | 8.0571       | 171   | 97.5        | 0.0         | 1.0         | 1.5            | 10.1              | 97.0                  |
|            | CROC_T_06   | 21.6                | 14.2                    | 7.71                    | 0.24               | 6.05 | 6.30          | 298.61       | 8.8069       | 73    | 50.5        | 0.0         | 46.1        | 2.9            | 3.3               | 94.0                  |
| Cromwell   | CROM_T_02   | 19.7                | 19.2                    | 6.66                    | 0.91               | 5.72 | 7.87          | 381.83       | 11.5249      | 79    | 80.0        | 0.0         | 6.0         | 27.0           | 56.0              | 76.0                  |
|            | CROM_T_03   | 19.6                | 19.6                    | 4.56                    | 0.56               | 5.76 | 7.57          | 341.93       | 11.8224      | 27    | 71.0        | 0.0         | 14.0        | 15.0           | 61.5              | 84.5                  |
|            | CROM_T_04   | 19.8                | 19.6                    | 5.45                    | 0.49               | 5.89 | 7.81          | 361.31       | 10.7160      | 53    | 89.8        | 0.0         | 5.8         | 4.4            | 69.0              | 117.0                 |
| Echo       | ECHO_T_05   | 24.6                | 166.3                   | 10.18                   | 1.56               | 8.25 | 5.67          | 520.91       | 13.1379      | 10    | 84.0        | 0.0         | 7.0         | 9.0            | 58.5              | 52.0                  |
|            | ECHO_T_01   | 23.5                | 174.3                   | 9.84                    | 1.80               | 8.00 | 5.58          | 492.41       | 13.4672      | 45    | 87.0        | 0.0         | 5.8         | 7.2            | 53.5              | 50.5                  |
|            | ECHO_T_02   | 25.0                | 171.0                   | 10.07                   | 3.50               | 8.17 | 5.75          | 511.79       | 15.8648      | 27    | 59.5        | 19.0        | 10.5        | 10.5           | 49.0              | 39.5                  |
|            | ECHO_T_03   | 23.4                | 159.9                   | 9.77                    | 1.54               | 8.15 | 5.65          | 519.77       | 15.7477      | 21    | 0.0         | 13.0        | 85.0        | 2.0            | 1.1               | 41.3                  |
|            | ECHO_T_04   | 23.3                | 159.6                   | 9.71                    | 2.12               | 7.96 | 5.72          | 593.87       | 19.3587      | 17    | 75.0        | 0.0         | 19.5        | 5.5            | 11.5              | 51.0                  |
| Fournelle  | FOUR_T_01   | 24.9                | 62.5                    | 8.44                    | 0.76               | 6.68 | 5.41          | 311.15       | 9.0404       | 41    | 96.9        | 0.0         | 3.0         | 0.1            | 31.5              | 82.0                  |
|            | FOUR_T_02   | 24.5                | 60.7                    | 8.94                    | 1.58               | 7.38 | 5.42          | 328.25       | 10.2989      | 26    | 95.4        | 0.0         | 1.2         | 3.2            | 9.6               | 125.5                 |
|            | FOUR_T_03   | 24.6                | 60.7                    | 8.78                    | 1.33               | 7.61 | 5.37          | 308.87       | 7.4852       | 57    | 100.0       | 0.0         | 0.0         | 0.0            | 8.5               | 61.5                  |
| Montaubois | MONT_T_01   | 22.6                | 60.9                    | 8.26                    | 0.03               | 6.44 | 3.88          | 303.17       | 6.1110       | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
|            | MONT_T_02   | 23.2                | 61.5                    | 8.01                    | 0.08               | 6.52 | 3.67          | 239.33       | 5.5773       | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
|            | MONT_T_03   | 22.8                | 61.7                    | 8.17                    | 0.02               | 6.64 | 3.70          | 265.55       | 5.0967       | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
| Morency    | MORE_T_03   | 23.2                | 128.6                   | 9.29                    | 0.42               | 8.17 | 4.25          | 355.61       | 8.4191       | 83    | 24.5        | 0.0         | 35.5        | 40.5           | 13.5              | 129.0                 |
|            | MORE_T_04   | 22.3                | 126.1                   | 9.52                    | 0.43               | 8.28 | 4.30          | 355.61       | 6.6601       | 31    | 53.0        | 3.0         | 16.5        | 27.5           | 57.3              | 58.0                  |
|            | MORE_T_01   | 24.8                | 132.7                   | 10.38                   | 2.38               | 8.50 | 4.49          | 356.75       | 7.5123       | 15    | 88.5        | 0.0         | 3.6         | 7.8            | 8.5               | 30.5                  |
|            | MORE_T_02   | 24.0                | 129.3                   | 9.53                    | 4.32               | 8.16 | 4.30          | 341.93       | 6.8925       | 94    | 42.8        | 0.7         | 16.5        | 41.0           | 5.9               | 168.0                 |
| Pin rouge  | PINR_T_01   | 21.0                | 45.5                    | 7.70                    | 0.39               | 6.74 | 8.27          | 502.67       | 13.6476      | 5     | 100.0       | 0.0         | 0.0         | 0.0            | 61.0              | 32.5                  |
|            | PINR_T_02   | 20.9                | 45.9                    | 8.13                    | 0.35               | 6.42 | 8.29          | 460.49       | 13.4307      | 37    | 69.5        | 9.0         | 4.5         | 17.0           | 23.3              | 56.5                  |
|            | PINR_T_03   | 20.7                | 45.7                    | 8.08                    | 0.12               | 7.01 | 8.15          | 408.05       | 8.1835       | 20    | 98.8        | 0.7         | 0.5         | 0.0            | 9.2               | 26.5                  |
| St-Onge    | STON_T_02   | 22.3                | 94.4                    | 7.64                    | 1.45               | 6.55 | 13.30         | 656.57       | 25.7782      | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
|            | STON_T_01   | 22.8                | 99.1                    | 7.10                    | 1.36               | 6.18 | 13.10         | 530.03       | 17.6344      | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
| Tracy      | TRAC_T_02   | 24.1                | 72.9                    | 8.24                    | 0.03               | 6.35 | 3.87          | 467.33       | 8.6231       | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
|            | TRAC_T_01   | 23.0                | 71.1                    | 8.31                    | 0.08               | 6.45 | 3.31          | 272.39       | 4.8220       | NA    | NA          | NA          | NA          | NA             | NA                | NA                    |
| Triton     | TRIT_T_01   | 20.9                | 14.3                    | 7.52                    | 1.19               | 5.99 | 7.09          | 386.39       | 9.5666       | 27    | 98.8        | 0.0         | 0.0         | 1.2            | 57.5              | 128.5                 |
|            | TRIT_T_02   | 20.9                | 14.2                    | 7.55                    | 0.82               | 5.69 | 7.93          | 379.55       | 10.1204      | 166   | 91.5        | 0.0         | 4.5         | 4.0            | 41.0              | 121.0                 |