



## Explanation of EGLE-Format Lake Vegetation Maps and Summary Sheets

The maps are in a standard format as required by the Michigan Department of Environment, Great Lakes & Energy (EGLE). The maps divide the parts of the lake capable of growing aquatic plants into subareas and record the cover of each aquatic plant species found in each area. Vegetation summary sheets summarize the information from the maps in a form that EGLE uses to make decisions about permits.

Notations on the map are interpreted as follows:

Number (= plant species) Letter (=approximate cover of this plant)

For Example:

“1b” indicates plant species #1 at a density of b

Species are usually numbered according to a standardized numbering system (at right). We often reproduce the species number key and species name abbreviations on the map itself. The cover codes a, b, c and d are used to describe the approximate coverage of each plant within the map area, as described in the following table.

| Cover Code | Approximate Cover Range |
|------------|-------------------------|
| a          | 1-2%                    |
| b          | 3-20%                   |
| c          | 21-60%                  |
| d          | 61-100%                 |

Thus, the example “1b” refers to Eurasian watermilfoil covering between 3 and 20 percent of the area of the lake in which this code appears.

Shading on the map (if needed) is used to identify areas of overall plant coverage, locations of problem exotic species or areas requiring management. A key on the map should indicate exactly what is indicated by shading.

| No | Plant Name                 |
|----|----------------------------|
| 1  | Eurasian watermilfoil      |
| 2  | Curly leaf pondweed        |
| 3  | Chara                      |
| 4  | Thinleaf pondweed          |
| 5  | Flatstem pondweed          |
| 6  | Robbins pondweed           |
| 7  | Variable pondweed          |
| 8  | White stem pondweed        |
| 9  | Richardsons pondweed       |
| 10 | Illinois pondweed          |
| 11 | Large leaf pondweed        |
| 12 | American pondweed          |
| 13 | Floating leaf pondweed     |
| 14 | Water stargrass            |
| 15 | Wild celery                |
| 16 | Sagittaria (submersed)     |
| 17 | Northern watermilfoil      |
| 18 | Rush                       |
| 19 | Variable leaf watermilfoil |
| 20 | Coontail                   |
| 21 | Elodea                     |
| 22 | Bladderwort                |
| 23 | Mini Bladderwort           |
| 24 | Buttercup                  |
| 25 | Naiad                      |
| 26 | Brittle naiad              |
| 27 | Sago Pondweed              |
| 28 | Starry Stonewort           |
| 29 | Cabomba                    |
| 30 | Water Lily                 |
| 31 | Spatterdock                |
| 32 | Water shield               |
| 33 | Lemna minor                |
| 34 | Greater duckweed           |
| 35 | Watermeal                  |
| 36 | Arrowhead                  |
| 37 | Pickernelweed              |
| 38 | Arrow arum                 |
| 39 | Cattail                    |
| 40 | Bulrush                    |
| 41 | Iris                       |
| 42 | Swamp loosestrife          |
| 43 | Purple loosestrife         |
| 44 | Phragmites                 |
| 45 | European frogbit           |
| 46 | Slender spike rush         |
| 47 | Smartweed                  |
| 48 | Water marigold             |
| 49 | American lotus             |

### Standard Aquatic Vegetation Summary Sheet

| Code No | Plant Name                 | Total number of AVAS's for each Density Category |    |    |   | Calculations |        |        |        | Sum of Columns 5-8 | Total No. of AVAS | Col 9 divided by Col 10 |
|---------|----------------------------|--|----|----|---|--------------|--------|--------|--------|--------------------|-------------------|-------------------------|
|         |                            | A  | B  | C  | D | A x 1        | B x 10 | C x 40 | D x 80 | 9                  | 10                | 11                      |
| 1       | Eurasian watermilfoil      | 3  | 2  | 1  | 0 | 3            | 20     | 40     | 0      | 63                 | 25                | 2.52                    |
| 2       | Curly leaf pondweed        | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 3       | Chara                      | 0  | 8  | 9  | 6 | 0            | 80     | 360    | 480    | 920                | 25                | 36.80                   |
| 4       | Thinleaf pondweed          | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 5       | Flatstem pondweed          | 5  | 2  | 0  | 0 | 5            | 20     | 0      | 0      | 25                 | 25                | 1.00                    |
| 6       | Robbins pondweed           | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 7       | Variable pondweed          | 15   | 3  | 0  | 0 | 15           | 30     | 0      | 0      | 45                 | 25                | 1.80                    |
| 8       | White stem pondweed        | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 9       | Richardsons pondweed       | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 10      | Illinois pondweed          | 1  | 15 | 6  | 0 | 1            | 150    | 240    | 0      | 391                | 25                | 15.64                   |
| 11      | Large leaf pondweed        | 11   | 2  | 0  | 0 | 11           | 20     | 0      | 0      | 31                 | 25                | 1.24                    |
| 12      | American pondweed          | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 13      | Floating leaf pondweed     | 1  | 4  | 0  | 0 | 1            | 40     | 0      | 0      | 41                 | 25                | 1.64                    |
| 14      | Water stargrass            | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 15      | Wild celery                | 0  | 12 | 14 | 0 | 0            | 120    | 560    | 0      | 680                | 25                | 27.20                   |
| 16      | Sagittaria (submersed)     | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 17      | Northern watermilfoil      | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 18      | Rush                       | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 19      | Variable leaf watermilfoil | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 20      | Coontail                   | 0  | 3  | 0  | 0 | 0            | 30     | 0      | 0      | 30                 | 25                | 1.20                    |
| 21      | Elodea                     | 0  | 2  | 1  | 0 | 0            | 20     | 40     | 0      | 60                 | 25                | 2.40                    |
| 22      | Bladderwort                | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 23      | Mini Bladderwort           | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 24      | Buttercup                  | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 25      | Naiad                      | 9  | 6  | 10 | 0 | 9            | 60     | 400    | 0      | 469                | 25                | 18.76                   |
| 26      | Brittle naiad              | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 27      | Sago Pondweed              | 0  | 0  | 15 | 9 | 0            | 0      | 600    | 720    | 1320               | 25                | 52.80                   |
| 28      | Starry Stonewort           | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 29      | Cabomba                    | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 30      | Water Lily                 | 2  | 5  | 5  | 0 | 2            | 50     | 200    | 0      | 252                | 25                | 10.08                   |
| 31      | Spatterdock                | 3  | 0  | 0  | 1 | 3            | 0      | 0      | 80     | 83                 | 25                | 3.32                    |
| 32      | Water shield               | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 33      | Common Duckweed            | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 34      | Greater duckweed           | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 35      | Watermeal                  | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 36      | Arrowhead                  | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 37      | Pickerelweed               | 1  | 0  | 0  | 0 | 1            | 0      | 0      | 0      | 1                  | 25                | 0.04                    |
| 38      | Arrow arum                 | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 39      | Cattail                    | 4  | 8  | 2  | 0 | 4            | 80     | 80     | 0      | 164                | 25                | 6.56                    |
| 40      | Bulrush                    | 6  | 10 | 1  | 0 | 6            | 100    | 40     | 0      | 146                | 25                | 5.84                    |
| 41      | Iris                       | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 42      | Swamp loosestrife          | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 43      | Purple loosestrife         | 5  | 2  | 0  | 0 | 5            | 20     | 0      | 0      | 25                 | 25                | 1.00                    |
| 44      | Phragmites                 | 1  | 8  | 10 | 0 | 1            | 80     | 400    | 0      | 481                | 25                | 19.24                   |
| 45      | Frogbit                    | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 46      | Slender spikerush          | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 47      | Smartweed                  | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 48      | Water marigold             | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 49      | American lotus             | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |
| 50      |                            | 0  | 0  | 0  | 0 | 0            | 0      | 0      | 0      |                    |                   |                         |

**Total cumulative cover**


**209.08**

Lee Lake  
Surface Acres: 141.6  
County: Calhoun Co  
Township: Newton Twp  
T3S, R7W, Secs 27,28

KDT 8/22/24 11:00A  
65°, SUNNY, NWS mph



Flexible treatment area for Phragmites and Purple Loosestrife = 4.64 Acres

 - MILFOIL TREATMENT AREAS  
~ 3 ACRES

PRO COR X DIGUAT  
= \$2400  
FLUMI = \$1500

