

LVI

Site Name Lake Waumpi Sample Date 10/28/19

WBID 2957 A1 WIN ID G2CE0224 RQ -2019-10-28-61

|                                   | Initial/Date | QC Initial/Date |
|-----------------------------------|--------------|-----------------|
| Water chemistry data to LIMS      | MKL 12/2/19  | LB 12/17/19     |
| Create SBIO station visit 80510   | MKL 12/2/19  | n/a             |
| Vascular Entry (add LIMS ID)      | MKL 12/2/19  | LB 12/18/19     |
| Lake Observation Sheet Entry      | MKL 12/2/19  | LB 12/18/19     |
| Authorize SBIO data               | LB 12/18/19  | n/a             |
| Scan all sheets to 21FLCEN folder |              | n/a             |
| LIMS/WIN migration                |              | n/a             |
| File in cabinet                   |              | n/a             |

Comments/notes:

# DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: \_\_\_\_\_ MACROPHYTE ID: \_\_\_\_\_ LATITUDE: 28.63170432  
COUNTY: Orange STORET #: GZCE0224 LONGITUDE: -81.32988347  
DATE: 10/28/19 TIME: 1125 SAMPLING AGENCY: FDEP CE.POC  
SITE NAME: Lake Waumpo @ Center WBID: 2997 A 1  
FIELD ID/NAME: \_\_\_\_\_ LAKE SIZE: Mod RQ: 2017-10-28-61

## WATERSHED / LAKESIDE FEATURES

| PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS) :                                                                                       |              |                                                                                                           |              |             |                                                                                                    |            |                 |                                                                                                            |    | LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) |                                                                                                                   |    |   |   |   |   |   |   |   |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------|--------------|-------------|----------------------------------------------------------------------------------------------------|------------|-----------------|------------------------------------------------------------------------------------------------------------|----|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|---|---|---|---|
| Forest/Natural                                                                                                                                                                   | Silviculture | Field/Pasture                                                                                             | Agricultural | Residential | Commercial                                                                                         | Industrial | Other (Specify) |                                                                                                            |    |                                                |                                                                                                                   |    |   |   |   |   |   |   |   |   |   |
| <u>60</u>                                                                                                                                                                        |              |                                                                                                           |              | <u>40</u>   |                                                                                                    |            |                 |                                                                                                            |    |                                                |                                                                                                                   |    |   |   |   |   |   |   |   |   |   |
| Local Watershed Erosion (select one) : <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |              |                                                                                                           |              |             |                                                                                                    |            |                 | Artificially Impounded                                                                                     |    | LDI: <input type="text"/>                      |                                                                                                                   |    |   |   |   |   |   |   |   |   |   |
| Local Watershed NPS Pollution : <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |              |                                                                                                           |              |             |                                                                                                    |            |                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                        |    | Land Use Source & Year:                        |                                                                                                                   |    |   |   |   |   |   |   |   |   |   |
| STORMWATER INPUTS                                                                                                                                                                |              | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation                     |              |             | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place |            |                 | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place |    |                                                | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place |    |   |   |   |   |   |   |   |   |   |
| <u>8</u>                                                                                                                                                                         |              | 20                                                                                                        | 19           | 18          | 17                                                                                                 | 16         | 15              | 14                                                                                                         | 13 | 12                                             | 11                                                                                                                | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| LAKESIDE ALTERATIONS                                                                                                                                                             |              | Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)       |              |             | Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)              |            |                 | Many structures, roads or other human disturbance visible (50%-70% lakeside affected)                      |    |                                                | Highly developed or disturbed (>70% of lakeside affected)                                                         |    |   |   |   |   |   |   |   |   |   |
| <u>11</u>                                                                                                                                                                        |              | 20                                                                                                        | 19           | 18          | 17                                                                                                 | 16         | 15              | 14                                                                                                         | 13 | 12                                             | 11                                                                                                                | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| BUFFER ZONE                                                                                                                                                                      |              | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer |              |             | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer                               |            |                 | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer                                    |    |                                                | < 29% of shoreline with >18m buffer                                                                               |    |   |   |   |   |   |   |   |   |   |
| <u>12</u>                                                                                                                                                                        |              | 20                                                                                                        | 19           | 18          | 17                                                                                                 | 16         | 15              | 14                                                                                                         | 13 | 12                                             | 11                                                                                                                | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

## WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| <b>Water:</b><br>Nutrient Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No pH<2 <input type="checkbox"/> No<br>Color Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Lot #: _____ Exp. Date: _____<br>Alkalinity Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Water Level <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High |  |  |  |  |  |  |  | <b>Water Odors:</b> <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <b>Meter Readings:</b><br>Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT)<br>Top: <u>0.3</u> <u>27.6</u> <u>7.05</u> <u>5.57</u> <u>70.5</u> <u>211.0</u> <u>0.10</u><br>Mid-Depth: _____<br>Bottom: _____                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  | <b>Water Surface Oils:</b> <input checked="" type="checkbox"/> None<br><input type="checkbox"/> Sheen/Slick <input type="checkbox"/> Glob <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <b>Meter ID:</b> <u>Shrimp Trap</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  | <b>Clarity:</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Opaque <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid<br><b>Color:</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Tannic <input type="checkbox"/> Green                                                                                                                                                                                                                                                                                                  |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <b>Sediment Type:</b> (may check more than one)<br><input type="checkbox"/> Sandy <input checked="" type="checkbox"/> Organic fibrous (peaty, CPOM) <input checked="" type="checkbox"/> Vegetated<br><input type="checkbox"/> Sand/Silt <input type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                         |  |  |  |  |  |  |  | <b>SECCHI (M)</b> <u>1.4</u> <b>Total Station Depth (M)</b> <u>1.4</u><br><b>VOB</b> <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <b>Sediment Odors:</b><br><input type="checkbox"/> Normal <input type="checkbox"/> Other (Specify): _____<br><input checked="" type="checkbox"/> Anaerobic                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  | <b>Biological Communities:</b><br>LVI Conducted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Phytoplankton Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Lot #: _____ Exp Date: _____<br>Algal Bloom/Algal ID Sample Taken? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Active Vegetation Mgmt? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't Know |  |  |  |                              |  |  |  | <b>Abundance:</b><br>Absent Rare Common Abundant<br>Periphyton <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/><br>Nuisance Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Submersed Plants <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/><br>Exotic Apple Snails <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |  |  |  |  |
| <b>Additional Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <b>Weather Conditions :</b> <u>80's clear</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <b>SAMPLING TEAM:</b> <u>Mike Linger / Leif Boman</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  | <b>SIGNATURE:</b> <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  | <b>DATE:</b> <u>10/28/19</u> |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |

**DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet**

|                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                               |  |                                                                                                                                                                                                   |  |
|--------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STORET STATION NUMBER:<br><b>G2CE0224</b>                                                  |  | DATE (M/D/Y)<br><b>10/28/19</b>                                                                                                                                                                                                                                                                                                                              |  | LAKE NAME<br><b>Lake Wauampi</b>                                                                                                                                                                              |  | FIELD ID / NAME:                                                                                                                                                                                  |  |
| ECO-REGION:                                                                                |  | COUNTY:<br><b>Orange</b>                                                                                                                                                                                                                                                                                                                                     |  | SAMPLING LOCATION/DESCRIPTION:<br><b>Center</b>                                                                                                                                                               |  | LAKE SIZE:<br><b>Medium</b>                                                                                                                                                                       |  |
| <b>PARAMETER</b>                                                                           |  | No surface inflow or outflow present, very long water residence time, groundwater seepage dominates<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                       |  | Surface water inflow present, but flow is rare, moderate to long water residence time<br><div style="text-align: center;"><input type="checkbox"/></div>                                                      |  | Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time<br><div style="text-align: center;"><input checked="" type="checkbox"/></div> |  |
| <b>HYDROLOGY</b>                                                                           |  |                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                               |  | Impounded, hydrology of system artificially controlled<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                         |  |
| <b>Color</b>                                                                               |  | Very clear, uncolored water* (benthic sampling appropriate)<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                                                               |  | Water somewhat tannin stained (benthic sampling appropriate)<br><div style="text-align: center;"><input checked="" type="checkbox"/></div>                                                                    |  | Dark, discolored water (water color 20 PCU or higher)<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                          |  |
|                                                                                            |  | <b>Optimal</b>                                                                                                                                                                                                                                                                                                                                               |  | <b>Suboptimal</b>                                                                                                                                                                                             |  | <b>Marginal</b>                                                                                                                                                                                   |  |
| <b>Secchi</b>                                                                              |  | Secchi >3 m      Secchi(m)                                                                                                                                                                                                                                                                                                                                   |  | 3    2.6    2.2    1.8    1.4                                                                                                                                                                                 |  | 1.0    0.9    0.8    0.7    0.6                                                                                                                                                                   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>11</b></div> |  | Or VOB    20    19    18    17    16                                                                                                                                                                                                                                                                                                                         |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>Vegetation Quality</b>                                                                  |  | Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                                   |  | Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants<br><div style="text-align: center;"><input type="checkbox"/></div> |  | Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats<br><div style="text-align: center;"><input type="checkbox"/></div>                         |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>7</b></div>  |  | 20    19    18    17    16                                                                                                                                                                                                                                                                                                                                   |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>Stormwater Inputs</b>                                                                   |  | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                                     |  | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place<br><div style="text-align: center;"><input type="checkbox"/></div>                                         |  | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place<br><div style="text-align: center;"><input type="checkbox"/></div>                     |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>8</b></div>  |  | 20    19    18    17    16                                                                                                                                                                                                                                                                                                                                   |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>Bottom Substrate Quality</b>                                                            |  | Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                                |  | Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present<br><div style="text-align: center;"><input type="checkbox"/></div>                                               |  | Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom<br><div style="text-align: center;"><input type="checkbox"/></div>                   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>3</b></div>  |  | 20    19    18    17    16                                                                                                                                                                                                                                                                                                                                   |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>Lakeside Adverse Human Alterations</b>                                                  |  | Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                                         |  | Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected<br><div style="text-align: center;"><input type="checkbox"/></div>                                                       |  | Many structures, roads or other human disturbance visible (50%-70%) lakeside affected<br><div style="text-align: center;"><input type="checkbox"/></div>                                          |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>11</b></div> |  | 20    19    18    17    16                                                                                                                                                                                                                                                                                                                                   |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>Upland Buffer Zone</b>                                                                  |  | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                                                                                                                                 |  | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer<br><div style="text-align: center;"><input type="checkbox"/></div>                                                                       |  | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer<br><div style="text-align: center;"><input type="checkbox"/></div>                                                        |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>12</b></div> |  | 20    19    18    17    16                                                                                                                                                                                                                                                                                                                                   |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>Adverse Watershed Land Use</b>                                                          |  | Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial<br><div style="text-align: center;"><input type="checkbox"/></div> |  |                                                                                                                                                                                                               |  |                                                                                                                                                                                                   |  |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>10</b></div> |  | 20    19    18    17    16                                                                                                                                                                                                                                                                                                                                   |  | 15    14    13    12    11                                                                                                                                                                                    |  | 10    9    8    7    6                                                                                                                                                                            |  |
| <b>TOTAL SCORE</b>                                                                         |  | <div style="border: 2px solid black; padding: 5px; display: inline-block; font-size: 1.5em;"><b>62</b></div>                                                                                                                                                                                                                                                 |  | <b>COMMENTS:</b>                                                                                                                                                                                              |  |                                                                                                                                                                                                   |  |
| ANALYSIS DATE: <b>10/28/19</b>                                                             |  | ANALYST: <b>Mike Linger</b>                                                                                                                                                                                                                                                                                                                                  |  | SIGNATURE:                                                                                                                                                                                                    |  |                                                                                                                                                                                                   |  |



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Lake Waumpi @ Center

Date: 10/28/2019

WIN/ Field ID: G2CE0224

WBID: 2997A1

Latitude: 28.63170432

(mm/dd/yyyy)

County: Orange

ORG ID: 21FLCEN

Longitude: -81.32988347

(Decimal Degrees)

Receiving Body of Water: \_\_\_\_\_

RQ-2019- 10-28-61

| Sampling Team Members                                                                                   |      |                                                                                                                                                                                                                     |                  |                 | WQ Measurements                                  | Sample Collection                                  | Documentation                                                                     | Preservation                        | Preservation Check                  | Sampling Equipment                                                                    |                                             |                               |                      |  |
|---------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|--------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------|----------------------|--|
| Mike Linger                                                                                             |      |                                                                                                                                                                                                                     |                  |                 | <input checked="" type="checkbox"/>              | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/>                                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Sample Container                                  | <input type="checkbox"/> Van Dorn           | <input type="checkbox"/> Pole |                      |  |
| Leif Boman                                                                                              |      |                                                                                                                                                                                                                     |                  |                 | <input checked="" type="checkbox"/>              | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/>                                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> Carboy                                                       | <input checked="" type="checkbox"/> Syringe |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 |                                                  |                                                    |                                                                                   |                                     |                                     | <input type="checkbox"/> Dipper                                                       | <input type="checkbox"/> Other              |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 |                                                  |                                                    |                                                                                   |                                     |                                     | Depth Measured with <u>Secchi Disk Line / Meter</u>                                   |                                             |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 |                                                  |                                                    |                                                                                   |                                     |                                     | Equipment ID <u>Leadfoot</u> <u>Knothead</u> <u>Crusty/ Bucket</u> <u>Mucky/ Trap</u> |                                             |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 |                                                  |                                                    |                                                                                   |                                     |                                     | Collection Method                                                                     |                                             |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 | <input type="checkbox"/> Wading                  | <input checked="" type="checkbox"/> Canoe/Kayak    |                                                                                   |                                     |                                     |                                                                                       |                                             |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 | <input type="checkbox"/> From Shore              | <input checked="" type="checkbox"/> Electric Motor |                                                                                   |                                     |                                     |                                                                                       |                                             |                               |                      |  |
|                                                                                                         |      |                                                                                                                                                                                                                     |                  |                 | <input type="checkbox"/> Other                   | <input type="checkbox"/> Gasoline Motor            |                                                                                   |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Water Level: <u>Dry/ Pooled/ Low / Normal / High / Flooded</u>                                          |      |                                                                                                                                                                                                                     |                  |                 | Meter ID# <u>Shrimp Trap</u>                     |                                                    |                                                                                   |                                     |                                     | Matrix: <u>Fresh</u> / Marine / DI                                                    |                                             |                               |                      |  |
| Photos: <u>Yes</u> No                                                                                   |      |                                                                                                                                                                                                                     |                  |                 | Flow: <u>No Flow / Intestinal / Flowing / NA</u> |                                                    |                                                                                   |                                     |                                     | Tide: <u>Rising/ Falling/ Slack</u> <u>NA</u>                                         |                                             |                               | Tide Times: High Low |  |
| Time Zone                                                                                               | Time | Total Depth (m)                                                                                                                                                                                                     | Sample Depth (m) | Secchi Disk (m) | DO (mg/L)                                        | DO (%SAT)                                          | pH                                                                                | Salinity (PPT)                      | Sp COND (µmhos/cm)                  | Temp. (C°)                                                                            |                                             |                               |                      |  |
| EST                                                                                                     | 1125 | 1.4                                                                                                                                                                                                                 | 0.3              |                 | 5.57                                             | 70.5                                               | 7.05                                                                              | 0.10                                | 211.0                               | 27.6                                                                                  |                                             |                               |                      |  |
| CEN                                                                                                     |      | 0.3 MKL                                                                                                                                                                                                             |                  | 1.4 (3)         |                                                  |                                                    |                                                                                   |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Biological Samples Collected: None HA SCI RPS Algae ID LVS <u>LVI</u> Other:                            |      |                                                                                                                                                                                                                     |                  |                 |                                                  |                                                    |                                                                                   |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| SBIO ID Numbers: SBIO-ID: <u>80510</u> HA-ID: RPS-ID: Macrophyte-ID: <u>15577</u> LIMS#: <u>2132179</u> |      |                                                                                                                                                                                                                     |                  |                 |                                                  |                                                    |                                                                                   |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Parameter Suite                                                                                         |      | Parameter Methods                                                                                                                                                                                                   |                  |                 |                                                  |                                                    | Preservation                                                                      |                                     | Lot#                                | Expiration                                                                            | pH Check                                    |                               |                      |  |
| Preserved Nutrients                                                                                     |      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                     |                  |                 |                                                  |                                                    | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                                     | <u>SA7163030</u>                    | <u>10/30/19</u>                                                                       | <input type="checkbox"/> <2                 |                               |                      |  |
| Metals                                                                                                  |      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                     |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3                        |                                     |                                     |                                                                                       | <input type="checkbox"/> <2                 |                               |                      |  |
| Filtered Nutrients                                                                                      |      | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                       |                  |                 |                                                  |                                                    | <input checked="" type="checkbox"/> Ice                                           |                                     | <u>16930280</u>                     |                                                                                       |                                             |                               |                      |  |
| Chlorophyll                                                                                             |      | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                      |                  |                 |                                                  |                                                    | <input checked="" type="checkbox"/> Ice                                           |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Physical/Aggregate (Fresh)                                                                              |      | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                     |                  |                 |                                                  |                                                    | <input checked="" type="checkbox"/> Ice                                           |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Physical/Aggregate (Marine)                                                                             |      | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                       |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Macroinvertebrates                                                                                      |      | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                 |                  |                 |                                                  |                                                    | <input type="checkbox"/> Formalin                                                 |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Periphyton                                                                                              |      | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                   |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Microbiology                                                                                            |      | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                                                                                |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Molecular                                                                                               |      | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-DG3 <input type="checkbox"/> PCR-GFD       |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Tracers                                                                                                 |      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                             |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Pesticides                                                                                              |      | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-CAR8-AA |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |
| Phytoplankton                                                                                           |      | <input type="checkbox"/> DTY-QN-C <input type="checkbox"/> PKD-QN-C                                                                                                                                                 |                  |                 |                                                  |                                                    | <input type="checkbox"/> Ice                                                      |                                     |                                     |                                                                                       |                                             |                               |                      |  |

Notes:

WIN ID / Field ID →

Lake Waumpi @ Center



G2CE0224

Signature: Miklin

Date: 10/28/19

LIMS EVENT ID: CEN-DIST-2019- 10-29-01

Enter Field Parameters, Verify Station ID in LIMS DMT: MKL 12/2/19

QC Station ID, Field Parameters in LIMS DMT: 48 12/17/19

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

## DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

| Waterbody: <u>Lake Waumpi</u>                                                                                                                              |   | County: <u>Orange</u>         |   | Date: <u>10/28/19</u>                                                                   |                |                                                |   |   |   |    |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------|---|-----------------------------------------------------------------------------------------|----------------|------------------------------------------------|---|---|---|----|----------------|
| Analyst: <u>Mike Linger</u>                                                                                                                                |   | Signature: <u>[Signature]</u> |   | STORET: <u>G2CE024</u>                                                                  |                |                                                |   |   |   |    |                |
| Except where noted as "sp." species level identification required. *Genera that may require lab verification*<br>Plants in bold = FLEPPC invasive exotic.  |   |                               |   | Lake units sampled (circle one group):<br><u>1, 4, 7, 10</u> 2, 5, 8, 11<br>3, 6, 9, 12 |                |                                                |   |   |   |    |                |
| It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa. |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| SPECIES                                                                                                                                                    | 1 | 4                             | 7 | 10                                                                                      | Collected? (✓) | SPECIES                                        | 1 | 4 | 7 | 10 | Collected? (✓) |
| Acer rubrum                                                                                                                                                |   |                               |   |                                                                                         |                | Fraxinus                                       |   |   |   |    |                |
| <b>Alternanthera philoxeroides</b>                                                                                                                         |   |                               |   |                                                                                         |                | Fuirena scirpoides                             |   |   |   |    |                |
| Amaranthus australis                                                                                                                                       |   |                               |   |                                                                                         |                | Gordonia lasianthus                            |   |   |   |    |                |
| Andropogon sp.                                                                                                                                             |   |                               |   |                                                                                         |                | Habenaria repens                               |   |   |   |    |                |
| Azolla filiculoides (A. caroliniana)                                                                                                                       |   |                               |   |                                                                                         |                | Hibiscus coccineus                             |   |   |   |    |                |
| Baccharis sp.                                                                                                                                              |   |                               |   |                                                                                         |                | Hibiscus grandiflora                           |   |   |   |    |                |
| Bacopa caroliniana                                                                                                                                         |   |                               |   |                                                                                         |                | <b>Hydrilla verticillata</b>                   |   |   |   |    |                |
| Bacopa monnieri                                                                                                                                            |   |                               |   |                                                                                         |                | Hydrocotyle sp.                                |   |   |   |    |                |
| Bidens alba                                                                                                                                                |   |                               |   |                                                                                         |                | <b>Hygrophila polysperma</b>                   |   |   |   |    |                |
| Bidens laevis                                                                                                                                              |   |                               |   |                                                                                         |                | Hymenocallis sp.                               |   |   |   |    |                |
| Bidens mitis                                                                                                                                               |   |                               |   |                                                                                         |                | *Hypericum fasciculatum                        |   |   |   |    |                |
| Blechnum serrulatum                                                                                                                                        |   |                               |   |                                                                                         |                | *Hypericum hypericoides                        |   |   |   |    |                |
| Boehmeria cylindrica                                                                                                                                       |   |                               |   |                                                                                         |                | *Hypericum myrtifolium                         |   |   |   |    |                |
| Brasenia schreberi                                                                                                                                         |   |                               |   |                                                                                         |                | Ilex cassine                                   |   |   |   |    |                |
| Cabomba caroliniana                                                                                                                                        |   |                               |   |                                                                                         |                | <b>Ipomoea aquatica</b>                        |   |   |   |    |                |
| Canna                                                                                                                                                      |   |                               |   |                                                                                         |                | <b>Ipomoea sagittata</b>                       |   |   |   |    |                |
| Centella asiatica                                                                                                                                          |   |                               |   |                                                                                         |                | Itea virginica                                 |   |   |   |    |                |
| Cephalanthus occidentalis                                                                                                                                  |   |                               |   |                                                                                         |                | Juncus effusus                                 |   |   |   |    |                |
| Ceratophyllum demersum                                                                                                                                     |   |                               |   |                                                                                         |                | *Juncus marginatus                             |   |   |   |    |                |
| Chara sp.                                                                                                                                                  |   |                               |   |                                                                                         |                | *Juncus megacephalus                           |   |   |   |    |                |
| Cicuta maculata                                                                                                                                            |   |                               |   |                                                                                         |                | Juncus repens                                  |   |   |   |    |                |
| Cinnamomum camphora                                                                                                                                        |   |                               |   |                                                                                         |                | *Juncus scirpoides                             |   |   |   |    |                |
| Cladium jamaicense                                                                                                                                         |   |                               |   |                                                                                         |                | Lachnanthes caroliniana                        |   |   |   |    |                |
| <b>Colocasia esculenta</b>                                                                                                                                 |   |                               |   |                                                                                         |                | Leersia hexandra                               |   |   |   |    |                |
| *Commelina <u>diffusa</u>                                                                                                                                  |   |                               |   |                                                                                         |                | <b>Landoltia punctata (Spirodela punctata)</b> |   |   |   |    |                |
| Crinum americanum                                                                                                                                          |   |                               |   |                                                                                         |                | Lemna sp.                                      |   |   |   |    |                |
| *Cyperus alternifolius (C. involucratus)                                                                                                                   |   |                               |   |                                                                                         |                | Leucothoe racemosa (Eubotrys racemosa)         |   |   |   |    |                |
| Cyperus articulatus                                                                                                                                        |   |                               |   |                                                                                         |                | Limnium spongia                                |   |   |   |    |                |
| Cyperus haspan                                                                                                                                             |   |                               |   |                                                                                         |                | <b>Limnophila sessiliflora</b>                 |   |   |   |    |                |
| *Cyperus lecontei                                                                                                                                          |   |                               |   |                                                                                         |                | Liquidambar styraciflua                        |   |   |   |    |                |
| *Cyperus polystachyos                                                                                                                                      |   |                               |   |                                                                                         |                | *Ludwigia arcuata                              |   |   |   |    |                |
| *Cyperus odoratus                                                                                                                                          |   |                               |   |                                                                                         |                | *Ludwigia grandiflora                          |   |   |   |    |                |
| *Cyperus surinamensis                                                                                                                                      |   |                               |   |                                                                                         |                | *Ludwigia hexapetala                           |   |   |   |    |                |
| Cyrilla racemiflora                                                                                                                                        |   |                               |   |                                                                                         |                | *Ludwigia leptocarpa                           |   |   |   |    |                |
| Decodon verticillatus                                                                                                                                      |   |                               |   |                                                                                         |                | Ludwigia (native)                              |   |   |   |    |                |
| Diodia virginiana                                                                                                                                          |   |                               |   |                                                                                         |                | *Ludwigia octovalvis                           |   |   |   |    |                |
| *Echinochloa crus-galli                                                                                                                                    |   |                               |   |                                                                                         |                | <b>*Ludwigia peruviana</b>                     |   |   |   |    |                |
| *Echinochloa muricatum                                                                                                                                     |   |                               |   |                                                                                         |                | *Ludwigia repens                               |   |   |   |    |                |
| Echinochloa walteri                                                                                                                                        |   |                               |   |                                                                                         |                | Ludwigia suffruticosa                          |   |   |   |    |                |
| Eclipta prostrata (E. alba)                                                                                                                                |   |                               |   |                                                                                         |                | Luziola fluitans (Hydrochloa carolinensis)     |   |   |   |    |                |
| <b>Eichhornia crassipes</b>                                                                                                                                |   |                               |   |                                                                                         |                | Magnolia virginiana                            |   |   |   |    |                |
| *Eleocharis <u>bald.</u>                                                                                                                                   |   |                               |   |                                                                                         |                | Mayaca fluviatilis                             |   |   |   |    |                |
| Eleocharis cellulosa                                                                                                                                       |   |                               |   |                                                                                         |                | <b>Melaleuca quinquenervia</b>                 |   |   |   |    |                |
| *Eleocharis elongata                                                                                                                                       |   |                               |   |                                                                                         |                | Micranthemum glomeratum                        |   |   |   |    |                |
| Eleocharis equisetoides                                                                                                                                    |   |                               |   |                                                                                         |                | Micranthemum umbrosum                          |   |   |   |    |                |
| Eleocharis interstincta                                                                                                                                    |   |                               |   |                                                                                         |                | Mikania scandens                               |   |   |   |    |                |
| Eleocharis submersed viviparous                                                                                                                            |   |                               |   |                                                                                         |                | <b>Mimosa pigra</b>                            |   |   |   |    |                |
| *Eriocaulon compressum                                                                                                                                     |   |                               |   |                                                                                         |                | Myrica cerifera                                |   |   |   |    |                |
| *Eriocaulon decangulare                                                                                                                                    |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| Eupatorium capillifolium                                                                                                                                   |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |

 NO DOMINANT IN 4.  
 -LB

## FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

| Site: <u>Lake Waumpi</u>                                        |   |   |   |    | Date: <u>10/28/19</u> |                                                                    |   |   |   |    |                   |
|-----------------------------------------------------------------|---|---|---|----|-----------------------|--------------------------------------------------------------------|---|---|---|----|-------------------|
| SPECIES                                                         | 1 | 4 | 7 | 10 | Collected?<br>(✓)     | SPECIES                                                            | 1 | 4 | 7 | 10 | Collected?<br>(✓) |
| <b>Myriophyllum aquaticum</b>                                   |   |   |   |    |                       | <i>Salix caroliniana</i>                                           |   |   |   |    |                   |
| * <i>Myriophyllum heterophyllum</i>                             |   |   |   |    |                       | <b><i>Salvinia minima</i></b>                                      | / | / | / |    |                   |
| * <i>Myriophyllum laxum</i>                                     |   |   |   |    |                       | <i>Sambucus canadensis</i>                                         |   |   |   |    |                   |
| * <i>Myriophyllum pinnatum</i>                                  |   |   |   |    |                       | <b><i>Sapium sebiferum</i></b>                                     | / |   |   |    |                   |
| <b><i>Myriophyllum spicatum</i></b>                             |   |   |   |    |                       | <i>Saururus cernuus</i>                                            |   |   |   |    |                   |
| * <i>Najas filifolia</i>                                        |   |   |   |    |                       | <b><i>Schinus terebinthifolius</i></b>                             |   |   |   |    |                   |
| * <i>Najas guadalupensis</i>                                    |   |   |   |    |                       | * <i>Schoenoplectus californicus</i>                               |   |   |   |    |                   |
| * <i>Najas minor</i>                                            |   |   |   |    |                       | * <i>Schoenoplectus pungens</i>                                    |   |   |   |    |                   |
| <i>Nelumbo lutea</i>                                            |   |   |   |    |                       | * <i>Schoenoplectus tabernaemontani</i> ( <i>Scirpus validus</i> ) |   |   |   |    |                   |
| <i>Nitella</i> spp.                                             | / | / | / | /  |                       | <i>Scirpus cubensis</i> ( <i>Oxycaryon cubense</i> )               | / | / | / | /  |                   |
| <i>Nuphar</i> sp.                                               | / | / | / | /  |                       | <i>Scirpus cyperinus</i>                                           |   |   |   |    |                   |
| <i>Nymphaea mexicana</i>                                        |   |   |   |    |                       | * <i>Sesbania</i>                                                  |   |   |   |    |                   |
| <i>Nymphaea odorata</i>                                         |   |   |   |    |                       | <i>Solidago</i> sp.                                                |   |   |   |    |                   |
| <i>Nymphoides aquatica</i>                                      |   |   |   |    |                       | <i>Sparganium americanum</i>                                       |   |   |   |    |                   |
| <i>Nyssa sylvatica</i> var. <i>biflora</i>                      |   |   |   |    |                       | <i>Spartina bakeri</i>                                             |   |   |   |    |                   |
| <i>Orontium aquaticum</i>                                       |   |   |   |    |                       | <i>Spirodela polyrrhiza</i>                                        |   |   |   |    |                   |
| <i>Osmunda cinnamomea</i>                                       |   | / | / | /  |                       | <i>Taxodium</i> sp.                                                | / | / | / | /  |                   |
| <i>Osmunda regalis</i>                                          |   | / | / | /  |                       | <i>Thalia geniculata</i>                                           |   |   |   |    |                   |
| <i>Panicum hemitomon</i>                                        |   |   |   |    |                       | <i>Thelypteris interrupta</i>                                      |   |   |   |    |                   |
| <b><i>Panicum repens</i></b>                                    | / | / | / | /  |                       | <i>Thelypteris palustris</i>                                       |   |   |   |    |                   |
| <i>Paspalidium geminatum</i>                                    |   |   |   |    |                       | <i>Triadenum virginicum</i>                                        |   |   |   |    |                   |
| * <i>Paspalum repens</i>                                        | / | / | / | /  |                       | <i>Typha</i> sp.                                                   | / | / | / | /  |                   |
| <i>Paspalum urvillei</i>                                        |   |   |   |    |                       | <b><i>Urochloa mutica</i> (<i>Brachiaria mutica</i>)</b>           |   |   |   |    |                   |
| <i>Peltandra</i> sp.                                            |   |   |   |    |                       | * <i>Utricularia gibba</i> ( <i>U. biflora</i> )                   |   |   |   |    |                   |
| <i>Persea</i> sp.                                               |   |   |   |    |                       | * <i>Utricularia foliosa</i>                                       |   |   |   |    |                   |
| <b><i>Pennisetum purpureum</i></b>                              |   |   |   |    |                       | * <i>Utricularia inflata</i>                                       |   | / |   |    |                   |
| <i>Phragmites australis</i>                                     |   |   |   |    |                       | * <i>Utricularia purpurea</i>                                      |   |   |   |    |                   |
| <i>Pinus elliotii</i>                                           |   |   |   |    |                       | * <i>Utricularia radiata</i>                                       |   |   |   |    |                   |
| <b><i>Pistia stratioides</i></b>                                |   |   |   |    |                       | * <i>Utricularia resupinata</i>                                    |   |   |   |    |                   |
| <i>Pluchea</i> sp.                                              |   |   |   |    |                       | <i>Vallisneria americana</i>                                       |   |   |   |    |                   |
| * <i>Polygonum glabrum</i> ( <i>densiflorum</i> )               | / |   |   |    |                       | <i>Vitis</i> sp.                                                   |   |   |   |    |                   |
| <i>Polygonum hirsutum</i>                                       |   |   |   |    |                       | * <i>Websteria confervoides</i>                                    | / |   |   |    |                   |
| * <i>Polygonum hydropiperoides</i>                              | / |   |   |    |                       | <b><i>Wedelia trilobata</i> (<i>Sphagneticola trilobata</i>)</b>   | / |   |   |    |                   |
| * <i>Polygonum punctatum</i>                                    | / |   |   |    |                       | <i>Wolffiella</i> spp.                                             |   |   |   |    |                   |
| * <i>Polygonum</i>                                              |   |   |   |    |                       | <i>Woodwardia virginica</i>                                        |   |   |   |    |                   |
| <i>Pontederia cordata</i>                                       |   |   |   |    |                       | <i>Xyris</i> sp.                                                   |   |   |   |    |                   |
| * <i>Potamogeton diversifolius</i>                              |   |   |   |    |                       | <i>Zizania aquatica</i>                                            |   |   |   |    |                   |
| * <i>Potamogeton illinoensis</i>                                |   |   |   |    |                       | <i>Zizaniopsis milacea</i>                                         |   |   |   |    |                   |
| * <i>Potamogeton pusillus</i>                                   |   |   |   |    |                       | <i>climbing aster</i>                                              | / | / | / | /  |                   |
| * <i>Potamogeton pectinatus</i> ( <i>Stuckenia pectinatus</i> ) |   |   |   |    |                       | <i>Symphotrichum carolinianum</i>                                  | / | / | / | /  |                   |
| <i>Proserpinaca pectinata</i>                                   |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| * <i>Rhexia</i>                                                 |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| * <i>Rhynchospora corniculata</i>                               |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| * <i>Rhynchospora inundata</i>                                  |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| <i>Rhynchospora nitens</i>                                      |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| <i>Ricciocarpus natans</i>                                      |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| <i>Sabal palmetto</i>                                           |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| <i>Sacciolepis striata</i>                                      |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| * <i>Sagittaria filiformis</i>                                  |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| * <i>Sagittaria graminea</i>                                    |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| * <i>Sagittaria isoetiformis</i>                                |   |   |   |    |                       |                                                                    |   |   |   |    |                   |
| <i>Sagittaria lancifolia</i>                                    | / |   |   |    |                       |                                                                    |   |   |   |    |                   |
| <i>Sagittaria latifolia</i>                                     |   |   |   | /  |                       |                                                                    |   |   |   |    |                   |

## LVI Map for Lake Waumpi, WBID 2997A1

