

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

SAMPLE ID: 81817 MACROPHYTE ID: \_\_\_\_\_ LATITUDE: 29.9986  
 COUNTY: Wakulla STORET #: WAK17LOW1 LONGITUDE: -84.40384  
 DATE: 10/19/20 TIME: 12:05 PM SAMPLING AGENCY: FDEP  
 SITE NAME: Low Flying Plane Lake WBID: 1223  
 FIELD ID/NAME: LOWFLYPLN LAKE SIZE: 18 acres RQ: \_\_\_\_\_

## WATERSHED / LAKESIDE FEATURES

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                             |  |  |                                                                                                                      |  |  |                                                                                                                          |  |  |                                                                                                                                |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category -- from GIS) :<br>Forest/Natural <u>100</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential _____ Commercial _____ Industrial _____ Other (Specify) _____                                                                                                                                                                                                |  |                                                                                                                             |  |  | <b>LANDSCAPE DEVELOPMENT INTENSITY</b> (100 m buffer)<br>LDI: <u>no LDI</u><br>Land Use Source & Year: _____         |  |  |                                                                                                                          |  |  |                                                                                                                                |  |  |
| Local Watershed Erosion (select one) : <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution : <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Artificially Impounded <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                                                                                                                             |  |  |                                                                                                                      |  |  |                                                                                                                          |  |  |                                                                                                                                |  |  |
| <b>STORMWATER INPUTS</b><br><u>18</u>                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation<br>20 19 18 17 16                     |  |  | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place<br>15 14 13 12 11 |  |  | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place<br>10 9 8 7 6 |  |  | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place<br>5 4 3 2 1 |  |  |
| <b>LAKESIDE ALTERATIONS</b><br><u>19</u>                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)<br>20 19 18 17 16       |  |  | Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)<br>15 14 13 12 11              |  |  | Many structures, roads or other human disturbance visible (50%-70% lakeside affected)<br>10 9 8 7 6                      |  |  | Highly developed or disturbed (>70% of lakeside affected)<br>5 4 3 2 1                                                         |  |  |
| <b>BUFFER ZONE</b><br><u>20</u>                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer<br>20 19 18 17 16 |  |  | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer<br>15 14 13 12 11                               |  |  | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer<br>10 9 8 7 6                                    |  |  | < 29% of shoreline with >18m buffer<br>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 checked="" type="checkbox"/> Yes <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 <u>see sticker below</u><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>Top: _____<br>Mid-Depth: <u>0.42</u> <u>23.2</u> <u>5.36</u> <u>4.12</u> <u>48.3</u> <u>705</u><br>Bottom: <u>0.71</u> <u>23.0</u> <u>5.41</u> <u>2.15</u> <u>26.3</u> <u>718</u><br>Meter ID: <u>YS1 154185</u>                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  | <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>Sediment Type:</b> (may check more than one)<br><input type="checkbox"/> Sandy <input checked="" type="checkbox"/> Organic fibrous (peaty, CPOM) <input type="checkbox"/> Vegetated<br><input type="checkbox"/> Sand/Silt <input type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                    |  |  |  |  |  | <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 type="checkbox"/> Clear <input checked="" type="checkbox"/> Tannic <input type="checkbox"/> Green                                                                                                                                                                                                                                                                                             |  |  |  |  |  |
| <b>Biological Communities:</b><br>LVI Conducted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Phytoplankton Sample Taken? <input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> No <input checked="" type="checkbox"/><br>Active Vegetation Mgmt? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Submersed Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Exotic Apple Snails <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |  |  |
| <b>Weather Conditions:</b><br><u>mid 70s, sun/clouds</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  | <b>SECCHI (M)</b> <u>0.7 m</u> <b>Total Station Depth (M)</b> <u>0.8 m</u><br><b>VOB</b> <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |
| <b>Sediment Odors:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Other (Specify): _____<br><input type="checkbox"/> Anaerobic                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  | Contains: 1:1 H2SO4 Lot No.: SA9354050 Expires: 12/20/20 See Safety Data Sheet (SDS)<br>Contains: 1:1 HNO3 Lot No.: NA9354060 Expires: 12/20/20 See Safety Data Sheet (SDS)                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |
| <b>SAMPLING TEAM:</b> <u>J Patronis, A. O'Neal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  | <b>SIGNATURE:</b> _____ <b>DATE:</b> <u>10/19/20</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |



SITE NAME: Low Flying Plane LakeDATE: 10/19/20TIME: 12:05 PM  
(Military)EST CST DEPTH: 0.8 ft (m)FIELD ID: LOWFLYPLN

| SAMPLING TEAM MEMBERS | WQ MEASUREMENTS | DOCUMENTATION | SAMPLE COLLECTION | PRESERVATION | PRESERVATION CHECK |
|-----------------------|-----------------|---------------|-------------------|--------------|--------------------|
| Jessica Patronis      |                 | ✓             | ✓                 |              |                    |
| Ashley O'Neal         | ✓               |               |                   | ✓            | ✓                  |

| SAMPLING EQUIPMENT                                   |                                             |
|------------------------------------------------------|---------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Tubing type: _____ |
| <input type="checkbox"/> Pole                        | <input type="checkbox"/> Other _____        |
| <input type="checkbox"/> Pump ID#: _____             | <input type="checkbox"/> Other _____        |
| WATER QUALITY MEASUREMENTS                           |                                             |
| Instrument ID: <u>431 154185</u>                     |                                             |
| COLLECTION MODE                                      |                                             |
| Via Boat                                             |                                             |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe              |
| <input type="checkbox"/> Diving                      | <input type="checkbox"/> Electric Motor     |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Gasoline Motor     |
| <input type="checkbox"/> Other                       |                                             |

| Parameter Suite                | Parameter(s)/Method                                                                                                                                                                                                                                                                                                                                                                                                                                 | Matrix Code | Preservation**                                                                                                                                     | Preservative Lot # | pH Check                               | # Bottles ... |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|---------------|
| Preserved Nutrients            | <input checked="" type="checkbox"/> TKN <input checked="" type="checkbox"/> TP <input checked="" type="checkbox"/> NO <sub>x</sub> <input checked="" type="checkbox"/> NH <sub>3</sub> <input type="checkbox"/> TOC <input type="checkbox"/> Total N<br><input type="checkbox"/> Other: _____                                                                                                                                                       | SW          | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub>                                         | SA9354050          | <input checked="" type="checkbox"/> <2 | 1             |
| Filtered Nutrients             | <input checked="" type="checkbox"/> TP <input type="checkbox"/> Other: _____                                                                                                                                                                                                                                                                                                                                                                        | SW          | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> .45 um Filter                                                                     |                    |                                        | 1             |
| Unpreserved Nutrients          | <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> Other: _____                                                                                                                                                                                                                                                                                    | W           | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Physical/Aggregate Properties  | <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> TS <input type="checkbox"/> Turbidity <input checked="" type="checkbox"/> Alk <input type="checkbox"/> Color<br><input type="checkbox"/> Other: <u>W-CL-1C, W-F, W-SO<sub>4</sub>-1C</u>                                                                                                                                                                         | SW          | <input checked="" type="checkbox"/> Ice                                                                                                            |                    |                                        | 1             |
| Chlorophyll                    | <input type="checkbox"/> CHL-PPTN-W <input checked="" type="checkbox"/> CHL-SUITE-W                                                                                                                                                                                                                                                                                                                                                                 | SW          | <input checked="" type="checkbox"/> Ice                                                                                                            |                    |                                        | 1             |
| BOD                            | <input type="checkbox"/> BOD-INHB <input type="checkbox"/> BOD-UNIN                                                                                                                                                                                                                                                                                                                                                                                 | W           | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Microbiology                   | MF: <input type="checkbox"/> E coli <input type="checkbox"/> T Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enteroc <input type="checkbox"/> F Strep                                                                                                                                                                                                                                                                               | W           | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Macroinvertebrates             | <input type="checkbox"/> MI-FW-QLDC <input type="checkbox"/> MI-FW-QLBR <input type="checkbox"/> MI-FW-QNNC<br><input type="checkbox"/> MI-MN-QNNC                                                                                                                                                                                                                                                                                                  | W           | <input type="checkbox"/> Formalin                                                                                                                  |                    |                                        |               |
| Phytoplankton ✓                | <input type="checkbox"/> PKD-QN-C <input type="checkbox"/> DTY-QN-C <input checked="" type="checkbox"/> # of diatoms - in lab                                                                                                                                                                                                                                                                                                                       | SW          | <input checked="" type="checkbox"/> Lugol's - in lab                                                                                               |                    |                                        | 1             |
| Periphyton                     | <input type="checkbox"/> PRN-QL-C <input type="checkbox"/> DTM-QL-C <input type="checkbox"/> PRN-QN-C <input type="checkbox"/> DTM-QN-C                                                                                                                                                                                                                                                                                                             | W           | <input type="checkbox"/> Formalin                                                                                                                  |                    |                                        |               |
| AGP                            | <input type="checkbox"/> AA-AGP <input type="checkbox"/> AA-LIM-NUT                                                                                                                                                                                                                                                                                                                                                                                 | W           | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Metals                         | <input checked="" type="checkbox"/> W-ICP <input type="checkbox"/> W-FIAS <input checked="" type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP-Tr                                                                                                                                                                                                                                                                                             | SW          | <input checked="" type="checkbox"/> HNO <sub>3</sub>                                                                                               | NA9354060          | <input checked="" type="checkbox"/> <2 | 1             |
| Filtered Metals                | <input type="checkbox"/> W-ICP-F <input type="checkbox"/> W-FIAS-F <input type="checkbox"/> W-ICPMS-F <input type="checkbox"/> W-ICP-Tr-F                                                                                                                                                                                                                                                                                                           | W           | <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> .45 um Filter                                                                   |                    | <input type="checkbox"/> <2            |               |
| Mercury                        | <input type="checkbox"/> W-HG-AF                                                                                                                                                                                                                                                                                                                                                                                                                    | W           |                                                                                                                                                    |                    |                                        |               |
| BaseNeutral / Acid Extractable | <input type="checkbox"/> W-BNA <input type="checkbox"/> W-AE <input type="checkbox"/> W-BN <input type="checkbox"/> W-PAH<br><input type="checkbox"/> W-FL-PRO <input type="checkbox"/> W <input type="checkbox"/> Other: _____                                                                                                                                                                                                                     | W           | <input type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub>                                                               |                    | <input type="checkbox"/> <2            |               |
| Pesticides                     | <input type="checkbox"/> W-PEST-CL <input type="checkbox"/> W-PCB <input type="checkbox"/> W-PEST-NP <input type="checkbox"/> W-PSCL-PCB<br><input type="checkbox"/> W-NP-AA-SF <input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-PSHRB-NP<br><input type="checkbox"/> W-SLFN-UREA <input type="checkbox"/> W-SULFN-LC <input type="checkbox"/> Other: _____<br><input type="checkbox"/> W-ACIDHERB<br><input type="checkbox"/> W-CARB | W           | <input type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub><br><input type="checkbox"/> Ice <input type="checkbox"/> MCAA |                    |                                        |               |
| Purgeables                     | <input type="checkbox"/> W-VOC-MS<br><input type="checkbox"/> W-VOC-MS-A                                                                                                                                                                                                                                                                                                                                                                            | W           | <input type="checkbox"/> Ice <input type="checkbox"/> HCl                                                                                          |                    |                                        |               |
| Bioassay                       | Specify Test: _____                                                                                                                                                                                                                                                                                                                                                                                                                                 | W           | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| OTHER                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | W           | <input type="checkbox"/> Other: _____                                                                                                              |                    |                                        |               |

Notes: \_\_\_\_\_

Use one line for each set of sample (as supplied by the laboratory) containers. Use separate sheet for field or laboratory duplicate or blank or different water depth

^Enter "S" for surface if collected at a depth less than or equal to 1 foot

\*Matrix Codes (Insert prefix): SW = Surface Water GW = Groundwater DW = Drinking Water WW = Wastewater O = Other: \_\_\_\_\_

\*\*PRESERVATIVES: 1 ml added unless otherwise noted

\*\*\*Enter number of containers supplied by the laboratory for the test (e.g., 3 for volatile organics, etc.)



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

| Waterbody: <u>Low Flying Plane</u>                                                                                                                                                                                                                                                                                      |           | County: <u>Wakulla</u>        |   | Date: <u>10/19/20</u>                                                               |                |                                                |   |   |   |    |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------|---|-------------------------------------------------------------------------------------|----------------|------------------------------------------------|---|---|---|----|----------------|
| Analyst: <u>J. Patonis, A. O'Neal</u>                                                                                                                                                                                                                                                                                   |           | Signature: <u>[Signature]</u> |   | STORET:                                                                             |                |                                                |   |   |   |    |                |
| Except where noted as "sp." species level identification required. *Genera that may require lab verification*<br>Plants in bold = FLEPPC invasive exotic.<br>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. |           |                               |   | Lake units sampled (circle one group):<br>1, 4, 7, 10    2, 5, 8, 11<br>3, 6, 9, 12 |                |                                                |   |   |   |    |                |
| SPECIES                                                                                                                                                                                                                                                                                                                 | 2         | 5                             | 8 | 11                                                                                  | Collected? (✓) | SPECIES                                        | 2 | 5 | 8 | 11 | Collected? (✓) |
| Acer rubrum                                                                                                                                                                                                                                                                                                             |           |                               |   |                                                                                     |                | Habenaria repens                               | 1 |   |   |    |                |
| <b>Alternanthera philoxeroides</b>                                                                                                                                                                                                                                                                                      |           |                               |   |                                                                                     |                | <b>Hydrilla verticillata</b>                   |   |   |   |    |                |
| Andropogon sp.                                                                                                                                                                                                                                                                                                          | 1         |                               |   |                                                                                     |                | Hydrocotyle sp.                                | 1 |   |   | 1  |                |
| Azolla filiculoides (A. caroliniana)                                                                                                                                                                                                                                                                                    |           |                               |   |                                                                                     |                | <b>Hygrophila polysperma</b>                   |   |   |   |    |                |
| Baccharis sp.                                                                                                                                                                                                                                                                                                           |           |                               |   |                                                                                     |                | *Hypericum fasciculatum                        | 1 | 1 |   |    |                |
| Bacopa caroliniana                                                                                                                                                                                                                                                                                                      |           | 1                             |   |                                                                                     |                | *Hypericum hypericoides                        |   |   |   |    |                |
| Bacopa monnieri                                                                                                                                                                                                                                                                                                         |           |                               |   |                                                                                     |                | *Hypericum myrtifolium                         |   |   |   |    |                |
| Bidens laevis                                                                                                                                                                                                                                                                                                           | <u>SP</u> |                               |   |                                                                                     |                | Ilex cassine                                   |   |   |   |    |                |
| Bidens mitis                                                                                                                                                                                                                                                                                                            | 1         |                               |   |                                                                                     |                | <b>Ipomoea aquatica</b>                        |   |   |   |    |                |
| Blechnum serrulatum                                                                                                                                                                                                                                                                                                     |           |                               |   |                                                                                     |                | Ipomoea sagittata                              |   |   |   |    |                |
| Boehmeria cylindrica                                                                                                                                                                                                                                                                                                    |           |                               |   |                                                                                     |                | Itea virginica                                 |   |   |   |    |                |
| Brasenia schreberi                                                                                                                                                                                                                                                                                                      |           |                               |   |                                                                                     |                | Juncus effusus                                 |   |   |   |    |                |
| Cabomba caroliniana                                                                                                                                                                                                                                                                                                     |           |                               |   |                                                                                     |                | *Juncus marginatus                             |   |   |   |    |                |
| <b>Casuarina equisetifolia</b>                                                                                                                                                                                                                                                                                          |           |                               |   |                                                                                     |                | *Juncus megacephalus                           |   |   |   |    |                |
| Centella asiatica                                                                                                                                                                                                                                                                                                       |           |                               |   |                                                                                     |                | Juncus repens                                  |   |   |   |    |                |
| Cephalanthus occidentalis                                                                                                                                                                                                                                                                                               |           |                               |   |                                                                                     |                | *Juncus scirpoides                             |   |   |   |    |                |
| Ceratophyllum demersum                                                                                                                                                                                                                                                                                                  |           |                               |   |                                                                                     |                | Lachnanthes caroliniana                        | 1 |   |   |    |                |
| Chara sp.                                                                                                                                                                                                                                                                                                               |           |                               |   |                                                                                     |                | Leersia hexandra                               |   |   | 1 |    |                |
| Cladium jamaicense                                                                                                                                                                                                                                                                                                      | 1         | 1                             | 1 |                                                                                     |                | <b>Landoltia punctata (Spirodela punctata)</b> |   |   |   |    |                |
| Cliftonia monophylla                                                                                                                                                                                                                                                                                                    |           |                               |   |                                                                                     |                | Lemna sp.                                      |   |   |   |    |                |
| <b>Colocasia esculenta</b>                                                                                                                                                                                                                                                                                              |           |                               |   |                                                                                     |                | Leucothoe racemosa (Eubotrys racemosa)         |   |   |   |    |                |
| *Commelina                                                                                                                                                                                                                                                                                                              |           |                               |   |                                                                                     |                | Limnium spongia                                |   |   |   |    |                |
| Crinum americanum                                                                                                                                                                                                                                                                                                       |           |                               |   |                                                                                     |                | <b>Limnophila sessiliflora</b>                 |   |   |   |    |                |
| *Cyperus alternifolius (C. involucratus)                                                                                                                                                                                                                                                                                |           |                               |   |                                                                                     |                | Liquidambar styraciflua                        |   |   |   |    |                |
| Cyperus articulatus                                                                                                                                                                                                                                                                                                     |           |                               |   |                                                                                     |                | *Ludwigia arcuata                              |   |   |   |    |                |
| Cyperus haspan                                                                                                                                                                                                                                                                                                          |           |                               |   |                                                                                     |                | *Ludwigia leptocarpa                           | 1 |   |   |    |                |
| *Cyperus lecontei                                                                                                                                                                                                                                                                                                       |           |                               |   |                                                                                     |                | *Ludwigia linearis                             |   |   |   |    |                |
| *Cyperus polystachyos                                                                                                                                                                                                                                                                                                   |           |                               |   |                                                                                     |                | *Ludwigia octovalvis                           |   |   |   |    |                |
| *Cyperus odoratus                                                                                                                                                                                                                                                                                                       |           |                               |   |                                                                                     |                | * <b>Ludwigia peruviana</b>                    |   |   |   |    |                |
| *Cyperus surinamensis                                                                                                                                                                                                                                                                                                   |           |                               |   |                                                                                     |                | *Ludwigia repens                               |   |   |   |    |                |
| Cyrtia racemiflora                                                                                                                                                                                                                                                                                                      | 1         | 1                             | 1 | 1                                                                                   |                | *Ludwigia                                      |   |   |   |    |                |
| Decodon verticillatus                                                                                                                                                                                                                                                                                                   |           |                               |   |                                                                                     |                | Luziola fluitans (Hydrochloa carolinensis)     |   |   |   |    |                |
| Diodia virginiana                                                                                                                                                                                                                                                                                                       |           |                               |   |                                                                                     |                | Lyonia lucida                                  |   |   |   |    |                |
| *Echinochloa crus-galli                                                                                                                                                                                                                                                                                                 |           |                               |   |                                                                                     |                | Magnolia virginiana                            |   |   |   |    |                |
| *Echinochloa muricatum                                                                                                                                                                                                                                                                                                  |           |                               |   |                                                                                     |                | Mayaca fluviatilis                             |   |   |   |    |                |
| Echinochloa walteri                                                                                                                                                                                                                                                                                                     |           |                               |   |                                                                                     |                | <b>Melaleuca quinquenervia</b>                 |   |   |   |    |                |
| Eclipta prostrata (E. alba)                                                                                                                                                                                                                                                                                             |           |                               |   |                                                                                     |                | Micranthemum glomeratum                        |   |   |   |    |                |
| <b>Egeria densa</b>                                                                                                                                                                                                                                                                                                     |           |                               |   |                                                                                     |                | Micranthemum umbrosum                          |   |   |   |    |                |
| <b>Eichhornia crassipes</b>                                                                                                                                                                                                                                                                                             |           |                               |   |                                                                                     |                | Mikania scandens                               |   |   |   |    |                |
| *Eleocharis baldwinii                                                                                                                                                                                                                                                                                                   |           |                               |   |                                                                                     |                | <b>Mimosa pigra</b>                            |   |   |   |    |                |
| *Eleocharis (sub. vivip)                                                                                                                                                                                                                                                                                                | 1         |                               |   |                                                                                     |                | Myrica cerifera                                | 1 | 1 | 1 |    |                |
| Eleocharis cellulosa                                                                                                                                                                                                                                                                                                    | 1         | 1                             | 1 | C                                                                                   |                | <i>Ilex myrtifolia</i>                         | 1 | 1 | 1 |    |                |
| Eleocharis equisetoides                                                                                                                                                                                                                                                                                                 |           |                               |   |                                                                                     |                | <i>Eleocharis elongata</i>                     | 1 | 1 | 1 |    |                |
| Eleocharis interstincta                                                                                                                                                                                                                                                                                                 |           |                               |   |                                                                                     |                | <i>Rhynchospora (Microcephala)</i>             | 1 | 1 |   |    | ✓              |
| *Eriocaulon compressum                                                                                                                                                                                                                                                                                                  |           |                               |   |                                                                                     |                | <i>Ludwigia sphaerocarpa?</i>                  | 1 |   | 1 |    | ✓              |
| *Eriocaulon decangulare                                                                                                                                                                                                                                                                                                 |           |                               |   |                                                                                     |                | <i>Sorghastrum</i>                             | 1 |   |   |    |                |
| Eupatorium capillifolium                                                                                                                                                                                                                                                                                                |           |                               |   |                                                                                     |                |                                                |   |   |   |    |                |
| *Fuirena                                                                                                                                                                                                                                                                                                                |           |                               |   | 1                                                                                   |                |                                                |   |   |   |    |                |
| Fuirena scirpoidea                                                                                                                                                                                                                                                                                                      |           |                               |   |                                                                                     |                |                                                |   |   |   |    |                |
| Gordonia lasianthus                                                                                                                                                                                                                                                                                                     |           |                               |   |                                                                                     |                |                                                |   |   |   |    |                |

yes. *L. sphaerocarpa* AO

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

| Site: <u>Low Flying plane</u>                  |   |   |   |    |                | Date: <u>10/19/20</u>                             |   |   |   |    |                |
|------------------------------------------------|---|---|---|----|----------------|---------------------------------------------------|---|---|---|----|----------------|
| SPECIES                                        | 2 | 5 | 8 | 11 | Collected? (✓) | SPECIES                                           | 2 | 5 | 8 | 11 | Collected? (✓) |
| Myriophyllum aquaticum                         |   |   |   |    |                | Salix caroliniana                                 |   |   |   |    |                |
| *Myriophyllum heterophyllum                    |   |   |   |    |                | Salvinia minima                                   |   |   |   |    |                |
| *Myriophyllum laxum                            |   |   |   |    |                | Sambucus canadensis                               |   |   |   |    |                |
| *Myriophyllum pinnatum                         |   |   |   |    |                | Sapium sebiferum                                  |   |   |   |    |                |
| Myriophyllum spicatum                          |   |   |   |    |                | Saururus cernuus                                  |   |   |   |    |                |
| *Najas filifolia                               |   |   |   |    |                | Schinus terebinthifolius                          |   |   |   |    |                |
| *Najas guadalupensis                           |   |   |   |    |                | *Schoenoplectus californicus                      |   |   |   |    |                |
| *Najas minor                                   |   |   |   |    |                | *Schoenoplectus pungens                           |   |   |   |    |                |
| Nelumbo lutea                                  |   |   |   |    |                | *Schoenoplectus tabernaemontani (Scirpus validus) |   |   |   |    |                |
| Nitella spp.                                   |   |   |   |    |                | Scirpus cubensis (Oxycaryon cubense)              |   |   |   |    |                |
| Nuphar sp.                                     |   |   |   |    |                | Scirpus cyperinus                                 |   |   |   |    |                |
| Nymphaea odorata                               |   |   |   |    |                | *Sesbania                                         |   |   |   |    |                |
| Nymphoides aquatica                            |   |   |   |    |                | Solidago sp.                                      |   |   |   |    |                |
| Nyssa sylvatica var. biflora                   |   |   |   |    |                | Sparganium americanum                             |   |   |   |    |                |
| Orontium aquaticum                             |   |   |   |    |                | Spartina bakeri                                   |   |   |   |    |                |
| Osmunda cinnamomea                             |   |   |   |    |                | Spirodela polyrhiza                               |   |   |   |    |                |
| Osmunda regalis                                |   |   |   |    |                | Taxodium sp.                                      |   |   |   |    |                |
| Panicum hemitomon                              |   |   |   |    |                | Thalia geniculata                                 |   |   |   |    |                |
| Panicum repens                                 |   |   |   |    |                | Thelypteris palustris                             |   |   |   |    |                |
| Paspalidium geminatum                          |   |   |   |    |                | Triadenum virginicum                              |   |   |   |    |                |
| *Paspalum repens                               |   |   |   |    |                | Typha sp.                                         |   |   |   |    |                |
| Paspalum urvillei                              |   |   |   |    |                | Urochloa mutica (Brachiaria mutica)               |   |   |   |    |                |
| Peltandra sp.                                  |   |   |   |    |                | *Utricularia gibba (U. biflora)                   |   |   |   |    |                |
| Persea sp.                                     |   |   |   |    |                | *Utricularia floridana                            |   |   |   |    |                |
| Pennisetum purpureum                           |   |   |   |    |                | *Utricularia foliosa                              |   |   |   |    |                |
| Phragmites australis                           |   |   |   |    |                | *Utricularia inflata                              |   |   |   |    |                |
| Pinus elliotii                                 |   |   |   |    |                | *Utricularia purpurea                             |   |   |   |    |                |
| Pistia stratioides                             |   |   |   |    |                | *Utricularia cornuta                              |   |   |   |    |                |
| Pluchea sp.                                    |   |   |   |    |                | *Utricularia radiata                              |   |   |   |    |                |
| *Polygonum glabrum (densiflorum)               |   |   |   |    |                | Vallisneria americana                             |   |   |   |    |                |
| *Polygonum hydropiperoides                     |   |   |   |    |                | *Websteria confervoides                           |   |   |   |    |                |
| *Polygonum punctatum                           |   |   |   |    |                | Wedelia trilobata (Sphagneticola trilobata)       |   |   |   |    |                |
| *Polygonum ? Persicaria                        |   |   |   |    |                | Wolffiella spp.                                   |   |   |   |    |                |
| Pontederia cordata                             |   |   |   |    |                | Woodwardia virginica                              |   |   |   |    |                |
| *Potamogeton diversifolius                     |   |   |   |    |                | Xyris sp.                                         |   |   |   |    |                |
| *Potamogeton illinoensis                       |   |   |   |    |                | Zizania aquatica                                  |   |   |   |    |                |
| *Potamogeton pusillus                          |   |   |   |    |                | Zizaniopsis milacea                               |   |   |   |    |                |
| *Potamogeton pectinatus (Stuckenia pectinatus) |   |   |   |    |                |                                                   |   |   |   |    |                |
| Proserpinaca pectinata                         |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Rhexia                                        |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Rhynchospora corniculata                      |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Rhynchospora inundata                         |   |   |   |    |                |                                                   |   |   |   |    |                |
| Rhynchospora tracyi                            |   |   |   |    |                |                                                   |   |   |   |    |                |
| Ricciocarpus natans                            |   |   |   |    |                |                                                   |   |   |   |    |                |
| Sabal palmetto                                 |   |   |   |    |                |                                                   |   |   |   |    |                |
| Sacciolepis striata                            |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Sagittaria filiformis                         |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Sagittaria graminea                           |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Sagittaria isoetiformis                       |   |   |   |    |                |                                                   |   |   |   |    |                |
| Sagittaria lancifolia                          |   |   |   |    |                |                                                   |   |   |   |    |                |
| Sagittaria latifolia                           |   |   |   |    |                |                                                   |   |   |   |    |                |



