



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

PAGE \_\_\_\_ OF \_\_\_\_

Data Qualified?  
Yes / No

STORET Station Name: Lake Charles @ 400m S. of Center Date: 09/28/2016  
(mm/dd/yyyy)

STORET Station ID: 20020395 Latitude: 29.2283889  
(Decimal Degrees)

WBID: 2775 F RQ - 2016-09-26-35 ORG ID: 21FLLEN Longitude: -81.9065278  
(Decimal Degrees)

Receiving Body of Water: N/A Field ID: G1CF0030 County: Marion

| Sampling Team Members |  |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| Mike Linger           |  |  |  |  |  | /               | /                 | /             | /            | /                  |
| Mike Drennan          |  |  |  |  |  | /               | /                 | /             | /            | /                  |

| Sampling Equipment                                   |                                                    |                               |
|------------------------------------------------------|----------------------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn                  | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe                   |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other                     |                               |
| Equipment ID                                         |                                                    |                               |
| Collection Method                                    |                                                    |                               |
| <input type="checkbox"/> Wading                      | Via Boat                                           |                               |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Canoe/Kayak               |                               |
| <input type="checkbox"/> Other (note below)          | <input type="checkbox"/> Electric Motor            |                               |
|                                                      | <input checked="" type="checkbox"/> Gasoline Motor |                               |

Water Level: Dry / Low / Normal / High / Flooded Matrix: Fresh / Marine / DI

Meter ID# 11C/AB Photos: Yes / No / NA Tide Falling: Yes / No / NA

| Time Zone | Time  | Sample Depth (m) | Total Depth (m) | DO (mg/L) | DO (%SAT) | pH  | Salinity (ppt) | Secchi Disk (m) | Sp COND (umhos/cm) | Temp. (C°) |
|-----------|-------|------------------|-----------------|-----------|-----------|-----|----------------|-----------------|--------------------|------------|
| EST       | 12:53 | 0.3              | 1.9             | 6.5       | 85        | 6.9 | 0.05           | 0.6             | 106                | 29.6       |
| CEN       |       | 1.4              |                 | 5.7       | 74        | 6.7 | 0.05           |                 | 106                | 28.5       |

Biological Samples Collected: None HA SCI LVS RPS LVI Other

| Parameter Suite              | Parameter Methods                                                                                                                                                                                                      | Preservation                                                                      | Acid 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 | 6209120   | 7/27/17    | <input checked="" type="checkbox"/> <2 |
| Metals                       | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                  | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3  | 6218060   | 8/5/17     | <input checked="" type="checkbox"/> <2 |
| Filtered Nutrients           | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Chlorophyll                  | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| BOD                          | <input type="checkbox"/> BOD-UNIN                                                                                                                                                                                      | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Physical/Aggregate (Kit A/C) | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                        | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Physical/Aggregate (Kit B/D) | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                          | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Macroinvertebrates           | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                    | <input type="checkbox"/> Formalin                                                 |           |            |                                        |
| Microbiology                 | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococcus <input type="checkbox"/> QPCR                                                                                    | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Periphyton                   | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                      | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Pesticides                   | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                    |           |            |                                        |

Contains  
1:1  
Sulfuric Acid  
SA - 6209120  
EXP: 07/27/17  
Warning!  
see SDS

Adhesive Sticker(s) Here  
(If Available)

|                               |                                                                                |                                            |
|-------------------------------|--------------------------------------------------------------------------------|--------------------------------------------|
| Notes:                        | Lake Charles @ 400 m<br>S. of Center<br><br>Date: 09/28/16<br>RQ-2016-09-26-35 | G1CF0030<br>Field ID<br>STORET<br>20020395 |
| Signature: <u>[Signature]</u> | Date: <u>9/28/16</u>                                                           |                                            |

Field Parameters Entered into LIMS: \_\_\_\_\_ (Initials/Date) Field Parameters QC in LIMS: \_\_\_\_\_ (Initials/Date)  
Date Migrated to STORET: \_\_\_\_\_ (Initials/Date) Field Sheets Scanned/Saved: \_\_\_\_\_ (Initials/Date)

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

SAMPLE ID: 77229 MACROPHYTE ID: \_\_\_\_\_ LATITUDE: 29.2283889  
COUNTY: Marion STORET #: 20020395 LONGITUDE: -81.9065278  
DATE: 9/22/16 TIME: 12:53 SAMPLING AGENCY: FDEP CE ROC  
SITE NAME: Lake Charles @ 400m S. of Center WBID: 2775 F  
FIELD ID/NAME: G7 CE0030 LAKE SIZE: Med RQ: 2016-09-26-35

## 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: _____<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>Artificially Impounded <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                                                                                                                      |  |                                                                                                                                |  |
| Local Watershed NPS Pollution : <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                               |  |                                                                                                                      |  |                                                                                                                                |  |
| <b>STORMWATER INPUTS</b><br><u>20</u><br>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       |  |
| <b>LAKESIDE ALTERATIONS</b><br><u>20</u><br>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                            |  |
| <b>BUFFER ZONE</b><br><u>20</u><br>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                                          |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                      |  | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place<br>5 4 3 2 1 |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                      |  | Highly developed or disturbed (>70% of lakeside affected)<br>5 4 3 2 1                                                         |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                      |  | < 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 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 <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____<br><b>Water Surface Oils:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Sheen/Slack <input type="checkbox"/> Glob <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>29.6</u> <u>6.9</u> <u>6.5</u> <u>85</u> <u>106</u> <u>0.05</u><br>Mid-Depth: _____<br>Bottom: <u>1.4</u> <u>28.5</u> <u>6.7</u> <u>5.7</u> <u>74</u> <u>106</u> <u>0.05</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"/> Tannic <input type="checkbox"/> Clear <input type="checkbox"/> Green<br>SECCHI (M) <u>0.6</u> Total Station Depth (M) <u>1.9</u><br>VOB <input type="checkbox"/>                                                                                                                                                                                                 |  |  |  |  |  |
| <b>Sediment Type:</b> (may check more than one)<br><input checked="" type="checkbox"/> Sandy <input 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): _____<br>Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                    |  |  |  |  |  | <b>Sediment Odors:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Anaerobic <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
| <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? <u>In Lab</u> <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot #: _____ Exp Date: _____<br>Algal Bloom/Algal ID Sample Taken? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No<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 checked="" type="checkbox"/> <input 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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Exotic Apple Snails <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |  |  |
| <b>Weather Conditions:</b> <u>80's</u> <u>Rain present</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | <b>Additional Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |
| <b>SAMPLING TEAM:</b> <u>Mike Linger, Mike Drennan, Terry Ribordan</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  | <b>SIGNATURE:</b> <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
| <b>DATE:</b> <u>9/28/16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |

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

| Waterbody: <u>Lake Charles @ 400m S. of center</u>                                                                                                         |   | County: <u>Marion</u>         |   | Date: <u>9/28/16</u>                                                                    |                |                                                |   |   |   |    |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------|---|-----------------------------------------------------------------------------------------|----------------|------------------------------------------------|---|---|---|----|----------------|
| Analyst: <u>M. Linger, M. Drennan, T. Rueden</u>                                                                                                           |   | Signature: <u>[Signature]</u> |   | STORET: <u>20020395</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>1, 4, 7, 10 <b>2, 5, 8, 11</b><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                                                                                                                                                    | 2 | 5                             | 8 | 11                                                                                      | Collected? (✓) | SPECIES                                        | 2 | 5 | 8 | 11 | Collected? (✓) |
| Acer rubrum                                                                                                                                                | / | /                             | / | /                                                                                       |                | Fuirena scirpoides                             |   |   |   |    |                |
| <b>Alternanthera philoxeroides</b>                                                                                                                         | / | /                             | / | /                                                                                       |                | Gordonia lasianthus                            | / |   | / | /  |                |
| Amaranthus australis                                                                                                                                       |   |                               |   |                                                                                         |                | Habenaria repens                               |   |   |   |    |                |
| Andropogon sp.                                                                                                                                             | / |                               |   |                                                                                         |                | Hibiscus coccineus                             |   |   |   |    |                |
| Azolla filiculoides (A. caroliniana)                                                                                                                       |   |                               |   |                                                                                         |                | Hibiscus grandiflora                           |   |   |   |    |                |
| Baccharis sp.                                                                                                                                              |   |                               |   |                                                                                         |                | <b>Hydrilla verticillata</b>                   |   |   |   |    |                |
| Bacopa caroliniana                                                                                                                                         |   |                               |   |                                                                                         |                | Hydrocotyle sp.                                | / | / | / | /  |                |
| Bacopa monnieri                                                                                                                                            |   |                               |   |                                                                                         |                | <b>Hygrophila polysperma</b>                   |   |   |   |    |                |
| Bidens alba                                                                                                                                                |   |                               |   |                                                                                         |                | Hymenocallis sp.                               |   |   |   |    |                |
| Bidens laevis                                                                                                                                              |   |                               |   |                                                                                         |                | *Hypericum fasciculatum                        |   |   |   |    |                |
| Bidens mitis                                                                                                                                               |   |                               |   |                                                                                         |                | *Hypericum hypericoides                        |   |   |   |    |                |
| Blechnum serrulatum                                                                                                                                        |   |                               | / |                                                                                         |                | *Hypericum myrtifolium                         |   |   |   |    |                |
| Boehmeria cylindrica                                                                                                                                       |   | /                             |   |                                                                                         |                | Ilex cassine                                   | / | / | / | /  |                |
| Brasenia schreberi                                                                                                                                         |   |                               |   |                                                                                         |                | <b>Ipomoea aquatica</b>                        |   |   |   |    |                |
| Cabomba caroliniana                                                                                                                                        |   |                               |   |                                                                                         |                | Ipomoea sagittata                              |   |   |   |    |                |
| Canna                                                                                                                                                      |   |                               |   |                                                                                         |                | Itea virginica                                 |   |   |   |    |                |
| Centella asiatica                                                                                                                                          |   |                               | / |                                                                                         |                | Juncus effusus                                 |   |   |   | /  |                |
| Cephalanthus occidentalis                                                                                                                                  | / | /                             | / | /                                                                                       |                | *Juncus marginatus                             |   |   |   |    |                |
| Ceratophyllum demersum                                                                                                                                     |   |                               |   |                                                                                         |                | *Juncus megacephalus                           |   |   |   |    |                |
| Chara sp.                                                                                                                                                  |   |                               |   |                                                                                         |                | Juncus repens                                  |   |   |   |    |                |
| Cinnamomum camphora                                                                                                                                        |   |                               | / |                                                                                         |                | *Juncus scirpoides                             |   |   |   |    |                |
| Cladium jamaicense                                                                                                                                         | / | /                             | / | /                                                                                       |                | Lachnanthes caroliniana                        |   |   |   |    |                |
| <b>Colocasia esculenta</b>                                                                                                                                 |   |                               |   |                                                                                         |                | Leersia hexandra                               |   |   |   |    |                |
| *Commelina                                                                                                                                                 |   |                               |   |                                                                                         |                | <b>Landoltia punctata (Spirodela punctata)</b> |   |   |   |    |                |
| Crinum americanum                                                                                                                                          | / | /                             | / | /                                                                                       |                | Lemna sp.                                      |   |   |   |    |                |
| <b>*Cyperus alternifolius (C. involucratus)</b>                                                                                                            |   |                               |   |                                                                                         |                | Leucothoe racemosa (Eubotrys racemosa)         |   |   |   |    |                |
| Cyperus articulatus                                                                                                                                        |   |                               |   |                                                                                         |                | Limnobia spongia                               |   |   |   |    |                |
| Cyperus haspan                                                                                                                                             |   |                               |   |                                                                                         |                | <b>Limnophila sessiliflora</b>                 |   |   |   |    |                |
| *Cyperus lecontei                                                                                                                                          |   |                               |   |                                                                                         |                | Liquidambar styraciflua                        |   |   |   |    |                |
| *Cyperus polystachyos                                                                                                                                      |   |                               |   |                                                                                         |                | *Ludwigia arcuata                              |   |   |   |    |                |
| *Cyperus odoratus                                                                                                                                          |   |                               |   |                                                                                         |                | Ludwigia hex-grand-uruguayensis complex**      |   |   |   |    |                |
| *Cyperus surinamensis                                                                                                                                      |   |                               |   |                                                                                         |                | *Ludwigia leptocarpa                           |   |   |   |    |                |
| Cyrilla racemiflora                                                                                                                                        |   |                               |   |                                                                                         |                | Ludwigia (native)                              |   |   |   |    |                |
| Decodon verticillatus                                                                                                                                      |   |                               |   |                                                                                         |                | *Ludwigia octovalvis                           |   |   |   |    |                |
| Diodia virginiana                                                                                                                                          |   |                               |   |                                                                                         |                | <b>*Ludwigia peruviana</b>                     |   | / |   |    |                |
| *Echinochloa crus-galli                                                                                                                                    |   |                               |   |                                                                                         |                | *Ludwigia repens                               |   |   |   |    |                |
| *Echinochloa muricatum                                                                                                                                     |   |                               |   |                                                                                         |                | Ludwigia suffruticosa                          |   |   |   |    |                |
| Echinochloa walteri                                                                                                                                        |   |                               |   |                                                                                         |                | Luziola fluitans (Hydrochloa carolinensis)     | / | / | / | /  |                |
| Eclipta prostrata (E. alba)                                                                                                                                |   |                               |   |                                                                                         |                | Magnolia virginiana                            |   |   |   |    |                |
| <b>Eichhornia crassipes</b>                                                                                                                                | D | D                             | D | D                                                                                       |                | Mayaca fluviatilis                             |   |   |   |    |                |
| *Eleocharis                                                                                                                                                |   |                               |   |                                                                                         |                | <b>Melaleuca quinquenervia</b>                 |   |   |   |    |                |
| Eleocharis cellulosa                                                                                                                                       |   |                               |   |                                                                                         |                | Micranthemum glomeratum                        |   |   |   |    |                |
| *Eleocharis elongata                                                                                                                                       |   |                               |   |                                                                                         |                | Micranthemum umbrosum                          |   |   |   |    |                |
| Eleocharis equisetoides                                                                                                                                    |   |                               |   |                                                                                         |                | Mikania scandens                               |   | / | / | /  |                |
| Eleocharis interstincta                                                                                                                                    |   |                               |   |                                                                                         |                | <b>Mimosa pigra</b>                            |   | / | / | /  |                |
| Eleocharis submersa viviparous                                                                                                                             |   |                               |   |                                                                                         |                | Myrica cerifera                                | / | / | / | /  |                |
| *Eriocaulon compressum                                                                                                                                     |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| *Eriocaulon decangulare                                                                                                                                    |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| Eupatorium capillifolium                                                                                                                                   |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| Fraxinus                                                                                                                                                   | / | /                             | / | /                                                                                       |                |                                                |   |   |   |    |                |

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

Site: LK. Charles

Date: 9/28/16

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

Lake Charles

