

Site Name Z1-LL-11015 Deer Point Lake Date 08/18/2017

Field ID Z1-LL-11015 Storet

Visit ID

RPS ID

VPDB ID

HA ID

☐ LVI

☐ RPS/LVS Only

☐ Sample Site Created in SBIO

☐ Phys/chem entered in SBIO

☐ HA entered in SBIO Initial

☐ Date and Initial QA:

☐ RPS entered in SBIO Initial

☐ Date and Initial QA:

☐ LVI entered in SBIO Initial

☐ Date and Initial QA:

☐ < 2 m<sup>2</sup> vegetation

☐ Plants getting verified

Date submitted:

☐ Plants verified

Date returned:

LVI, HA, and YSI. Project Ambient Status Monitoring.

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

|                                   |                       |                                        |
|-----------------------------------|-----------------------|----------------------------------------|
| SAMPLE ID: _____                  | MACROPHYTE ID: _____  | LATITUDE: <u>N 30.297411389</u>        |
| COUNTY: <u>Bay</u>                | STORET #: _____       | LONGITUDE: <u>W 85.57178289</u>        |
| DATE: <u>8/18/17</u>              | TIME: _____           | SAMPLING AGENCY: <u>FL DEP - NWROC</u> |
| SITE NAME: <u>Deer Point Lake</u> | WBID: <u>553A</u>     |                                        |
| FIELD ID/NAME: <u>Z1-LL-11015</u> | LAKE SIZE: <u>2kt</u> | RQ: <u>N/A</u>                         |

## WATERSHED / LAKESIDE FEATURES

|                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                             |                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category – from GIS) :<br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |                                                                                                                             | <b>LANDSCAPE DEVELOPMENT INTENSITY</b> (100 m buffer)<br><br><b>LDI:</b> <input type="text"/>                        |
| Local Watershed Erosion (select one) : <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Heavy<br>Local Watershed NPS Pollution : <input type="checkbox"/> No evidence <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                  |                                                                                                                             | <b>Artificially Impounded</b><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                 |
| <b>STORMWATER INPUTS</b><br><u>14</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 |
| <b>LAKESIDE ALTERATIONS</b><br><u>13</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              |
| <b>BUFFER ZONE</b><br><u>12</u>                                                                                                                                                                                                                                                                                                                                                                                       | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer<br>20 19 18 17 16 | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer<br>10 9 8 7 6                                |

## WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Water:</b><br>Nutrient Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> pH<2 <input type="checkbox"/> No<br>Color Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Lot # _____ Exp. Date: _____<br>Alkalinity Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Water Level <input type="checkbox"/> Low <input type="checkbox"/> Normal <input checked="" 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 _____<br><b>Water Surface Oils:</b> <input checked="" type="checkbox"/> None<br><input type="checkbox"/> Sheen/Slick <input type="checkbox"/> Glob <input type="checkbox"/> Other _____                                                                                                                                                                                                                                         |  |
| <b>Meter Readings:</b><br>Top: <u>13</u> <u>32.4</u> <u>6.7</u> <u>6.6</u> <u>92</u> <u>60</u> <u>0.0</u><br>Mid-Depth: _____<br>Bottom: <u>2.0</u> <u>28.2</u> <u>6.0</u> <u>3.8</u> <u>49</u> <u>57</u> <u>0.0</u><br>Meter ID: <u>132237</u>                                                                                                                                                                                                                                                                                                                                    |  | <b>Clarity:</b> <input type="checkbox"/> Clear <input type="checkbox"/> Opaque <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Slightly Turbid<br><b>Color:</b> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Tannic <input type="checkbox"/> Green<br><b>SECCHI (M)</b> <u>1.2</u> <b>Total Station Depth (M)</b> <u>2.5</u><br><b>VOB</b> <input type="checkbox"/>                                                                                                                                                                                       |  |
| <b>Sediment Type:</b> (may check more than one)<br><input type="checkbox"/> Sandy <input type="checkbox"/> Organic fibrous (peaty, CPOM) <input checked="" type="checkbox"/> Vegetated<br><input type="checkbox"/> Sand/Silt <input checked="" type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                             |  | <b>Sediment Odors:</b><br><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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Lot #: _____ Exp Date: _____<br>Algal Bloom/Algal ID Sample Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Active Vegetation Mgmt? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't Know |  | <b>Abundance:</b><br>Absent Rare Common Abundant<br>Periphyton <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/><br>Nuisance Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Submersed Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Exotic Apple Snails <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |
| <b>Weather Conditions:</b> <u>Sunny, Lot.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Additional Notes:</b><br><u>Pomacea canaliculata eggs</u><br><u>Corbicula</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>SAMPLING TEAM:</b> Frank Butera, Stopher Slade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>SIGNATURE:</b> <u>[Signature]</u> <b>DATE:</b> <u>8/18/2017</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**Lake Habitat Assessment Field Sheet**

|                                           |                                                                                                                                                                                                                                                                                           |                                                                                                                                            |                                                                                                                     |                                                                                                                                            |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| STORET STATION NUMBER:                    | DATE (M/D/Y) <u>08/17/2017</u>                                                                                                                                                                                                                                                            | LAKE NAME: SDeer Point Lake (Z1-LL-11015)                                                                                                  |                                                                                                                     | FIELD ID / NAME: Z1-LL-11015                                                                                                               |
| ECO-REGION:                               | COUNTY: Bay                                                                                                                                                                                                                                                                               | SAMPLING LOCATION/DESCRIPTION: Panama City                                                                                                 |                                                                                                                     | LAKE SIZE: <u>7200 acres?</u>                                                                                                              |
| <b>PARAMETER</b>                          | No surface inflow or outflow present, very long water residence time, groundwater seepage dominates                                                                                                                                                                                       | Surface water inflow present, but flow is rare, moderate to long water residence time                                                      | Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time | Impounded, hydrology of system artificially controlled                                                                                     |
| <b>HYDROLOGY</b>                          | <input type="checkbox"/>                                                                                                                                                                                                                                                                  | <input type="checkbox"/>                                                                                                                   | <input type="checkbox"/>                                                                                            | <input checked="" type="checkbox"/>                                                                                                        |
| <b>Color</b>                              | Very clear, uncolored water (benthic sampling appropriate) <input type="checkbox"/>                                                                                                                                                                                                       | Water somewhat tannin stained (benthic sampling appropriate) <input type="checkbox"/>                                                      | Dark, discolored water (water color 20 PCU or higher) <input type="checkbox"/>                                      | Visibility extremely reduced due to high color <input type="checkbox"/>                                                                    |
|                                           | <b>Optimal</b>                                                                                                                                                                                                                                                                            | <b>Suboptimal</b>                                                                                                                          | <b>Marginal</b>                                                                                                     | <b>Poor</b>                                                                                                                                |
| <b>Secchi</b>                             | Secchi > 3 m<br>Or VOB                                                                                                                                                                                                                                                                    | 3 2.6 2.2 1.8 1.4                                                                                                                          | 1.0 0.9 0.8 0.7 0.6                                                                                                 | 0.5 0.4 0.3 0.2 0.1                                                                                                                        |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>Vegetation Quality</b>                 | Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa                                                                                                                                                                                                   | Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants | Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats              | Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>Stormwater Inputs</b>                  | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation                                                                                                                                                                                                     | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place                                         | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place          | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place                          |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>Bottom Substrate Quality</b>           | Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present                                                                                                                                                                                                | Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present                                               | Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom        | Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom           |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>Lakeside Adverse Human Alterations</b> | Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)                                                                                                                                                                                                         | Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected                                                       | Many structures, roads or other human disturbance visible (50%-70%) lakeside affected                               | Highly developed or disturbed (>70% of lakeside affected)                                                                                  |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>Upland Buffer Zone</b>                 | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer                                                                                                                                                                                 | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer                                                                       | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer                                             | < 29% of shoreline with >18m buffer                                                                                                        |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>Adverse Watershed Land Use</b>         | Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial |                                                                                                                                            |                                                                                                                     |                                                                                                                                            |
|                                           | 20 19 18 17 16                                                                                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                             | 10 9 8 7 6                                                                                                          | 5 4 3 2 1                                                                                                                                  |
| <b>TOTAL SCORE</b>                        | <b>76</b>                                                                                                                                                                                                                                                                                 | <b>COMMENTS:</b>                                                                                                                           |                                                                                                                     |                                                                                                                                            |

ANALYSIS DATE:

08/18/2017

ANALYST: Frank Butera, Stopher Slade

SIGNATURE:

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

|                                                                                                                                                                                                                                                                                                                         |   |   |   |             |                |                                             |   |                                                                                         |   |    |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------------|----------------|---------------------------------------------|---|-----------------------------------------------------------------------------------------|---|----|----------------|
| Waterbody: Deer Point Lake (Z1-LL-11015)                                                                                                                                                                                                                                                                                |   |   |   | County: Bay |                |                                             |   | Date: 8/15/2017                                                                         |   |    |                |
| Analyst: F. Butera                                                                                                                                                                                                                                                                                                      |   |   |   | Signature:  |                |                                             |   | 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 <b>2, 5, 8, 11</b><br>3, 6, 9, 12 |   |    |                |
| SBIO ID _____                                                                                                                                                                                                                                                                                                           | 2 | 5 | 8 | 11          | Collected? (v) | Macro ID _____                              | 2 | 5                                                                                       | 8 | 11 | Collected? (v) |
| SPECIES                                                                                                                                                                                                                                                                                                                 | 1 | 1 | 1 | 1           |                | SPECIES                                     | 1 |                                                                                         |   |    |                |
| Acer rubrum                                                                                                                                                                                                                                                                                                             |   |   |   |             |                | Habenaria repens                            |   |                                                                                         |   |    |                |
| <b>Alternanthera philoxeroides</b>                                                                                                                                                                                                                                                                                      |   |   |   |             |                | <b>Hydrilla verticillata</b>                |   |                                                                                         |   |    |                |
| Andropogon sp.                                                                                                                                                                                                                                                                                                          |   |   |   |             |                | Hydrocotyle sp.                             | 1 | 1                                                                                       | 1 | 1  |                |
| Azolla filiculoides (A. caroliniana)                                                                                                                                                                                                                                                                                    |   |   |   |             |                | <b>Hygrophila polysperma</b>                |   |                                                                                         |   |    |                |
| Baccharis sp. <i>halimifolia</i>                                                                                                                                                                                                                                                                                        |   |   |   |             |                | *Hypericum fasciculatum                     |   |                                                                                         |   |    |                |
| Bacopa caroliniana                                                                                                                                                                                                                                                                                                      | D | D | D | D           |                | *Hypericum hypericoides                     |   |                                                                                         |   |    |                |
| Bacopa monnieri                                                                                                                                                                                                                                                                                                         |   |   |   |             |                | *Hypericum myrtifolium                      |   |                                                                                         |   |    |                |
| Bidens laevis                                                                                                                                                                                                                                                                                                           |   |   |   |             |                | Ilex cassine                                |   |                                                                                         |   |    |                |
| Bidens mitis                                                                                                                                                                                                                                                                                                            |   |   |   |             |                | <b>Ipomoea aquatica</b>                     |   |                                                                                         |   |    |                |
| Blechnum serrulatum                                                                                                                                                                                                                                                                                                     |   |   |   |             |                | Ipomoea sagittata                           |   |                                                                                         |   |    |                |
| Boehmeria cylindrica                                                                                                                                                                                                                                                                                                    | 1 | 1 | 1 | 1           |                | Itea virginica                              |   |                                                                                         |   |    |                |
| Brasenia schreberi                                                                                                                                                                                                                                                                                                      | 1 | 1 | 1 | 1           |                | Juncus effusus                              |   |                                                                                         |   |    |                |
| Cabomba caroliniana                                                                                                                                                                                                                                                                                                     |   |   |   |             |                | *Juncus marginatus                          |   |                                                                                         |   |    |                |
| <b>Casuarina equisetifolia</b>                                                                                                                                                                                                                                                                                          |   |   |   |             |                | *Juncus megacephalus                        |   |                                                                                         |   |    |                |
| Centella asiatica                                                                                                                                                                                                                                                                                                       |   |   |   |             |                | Juncus repens                               |   |                                                                                         |   |    |                |
| Cephalanthus occidentalis                                                                                                                                                                                                                                                                                               | 1 | 1 | 1 | 1           |                | *Juncus scirpoides                          |   |                                                                                         |   |    |                |
| Ceratophyllum demersum                                                                                                                                                                                                                                                                                                  |   |   |   |             |                | Lachnanthes caroliniana                     |   |                                                                                         |   |    |                |
| Chara sp.                                                                                                                                                                                                                                                                                                               |   |   |   |             |                | Leersia hexandra                            |   |                                                                                         |   |    |                |
| Cladium jamaicense                                                                                                                                                                                                                                                                                                      | 1 | 1 | 1 | 1           |                | <b>Landoltia punctata (Spiro. punctata)</b> |   |                                                                                         |   |    |                |
| Cliftonia monophylla                                                                                                                                                                                                                                                                                                    | 1 | 1 | 1 | 1           |                | Lemna sp.                                   |   |                                                                                         |   |    |                |
| <b>Colocasia esculenta</b>                                                                                                                                                                                                                                                                                              | 1 | 1 | 1 | 1           |                | Leucothoe racemosa (Eubotrys racemosa)      |   |                                                                                         |   |    |                |
| *Commelina                                                                                                                                                                                                                                                                                                              |   |   |   |             |                | Limnium spongia                             |   |                                                                                         |   |    |                |
| Crinum americanum                                                                                                                                                                                                                                                                                                       |   |   |   |             |                | <b>Limnophila sessiliflora</b>              |   |                                                                                         |   |    |                |
| * <b>Cyperus alternifolius</b> (C. involucratus)                                                                                                                                                                                                                                                                        |   |   |   |             |                | Liquidambar styraciflua                     |   |                                                                                         |   |    |                |
| Cyperus articulatus                                                                                                                                                                                                                                                                                                     |   |   |   |             |                | *Ludwigia arcuata                           |   |                                                                                         |   |    |                |
| Cyperus haspan                                                                                                                                                                                                                                                                                                          |   |   |   |             |                | *Ludwigia leptocarpa                        |   |                                                                                         |   |    |                |
| *Cyperus lecontei                                                                                                                                                                                                                                                                                                       |   |   |   |             |                | *Ludwigia linearis                          |   |                                                                                         |   |    |                |
| *Cyperus polystachyos                                                                                                                                                                                                                                                                                                   |   |   |   |             |                | *Ludwigia octovalvis                        |   |                                                                                         | 1 | 1  | ✓              |
| *Cyperus odoratus                                                                                                                                                                                                                                                                                                       |   |   |   |             |                | * <b>Ludwigia peruviana</b>                 |   |                                                                                         |   |    |                |
| *Cyperus surinamensis                                                                                                                                                                                                                                                                                                   |   |   |   |             |                | *Ludwigia repens                            |   |                                                                                         | 1 |    |                |
| Cyrtilla racemiflora                                                                                                                                                                                                                                                                                                    | 1 | 1 | 1 | 1           |                | *Ludwigia                                   |   |                                                                                         |   |    |                |
| Decodon verticillatus                                                                                                                                                                                                                                                                                                   |   |   |   |             |                | Luziola fluitans (Hydrochloa carolinensis)  |   |                                                                                         |   |    |                |
| Diodia virginiana                                                                                                                                                                                                                                                                                                       |   |   |   |             |                | Lyonia lucida                               |   |                                                                                         |   |    |                |
| *Echinochloa crus-galli                                                                                                                                                                                                                                                                                                 |   |   |   |             |                | Magnolia virginiana                         | 1 | 1                                                                                       | 1 | 1  |                |
| *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                                                                                                                                                                                                                                                                                                             |   |   |   |             |                | Myrica cerifera                             | 1 | 1                                                                                       | 1 | 1  |                |
| *Eleocharis cellulosa                                                                                                                                                                                                                                                                                                   |   |   |   |             |                | <i>Ludwigia peruviana</i>                   |   |                                                                                         |   |    | ✓              |
| Eleocharis equisetoides                                                                                                                                                                                                                                                                                                 |   |   |   |             |                | <i>B. alba</i>                              |   |                                                                                         |   |    | ✓              |
| Eleocharis interstincta                                                                                                                                                                                                                                                                                                 |   |   |   |             |                | <i>Tree Unk. Shrub</i>                      |   |                                                                                         |   |    | ✓              |
| *Eriocaulon compressum                                                                                                                                                                                                                                                                                                  |   |   |   |             |                | <i>Hypericum leucopetalum</i>               | 1 | 1                                                                                       | 1 | 1  | ✓              |
| *Eriocaulon decangulare                                                                                                                                                                                                                                                                                                 |   |   |   |             |                | <i>Wild Olive (Antennaria americana)</i>    |   |                                                                                         |   |    |                |
| Eupatorium capillifolium                                                                                                                                                                                                                                                                                                | 1 | 1 | 1 | 1           |                |                                             |   |                                                                                         |   |    |                |
| *Fuirena <i>sp</i>                                                                                                                                                                                                                                                                                                      |   |   |   |             |                |                                             |   |                                                                                         |   |    |                |
| Fuirena scirpoidea                                                                                                                                                                                                                                                                                                      |   |   |   |             |                |                                             |   |                                                                                         |   |    |                |
| Gordonia lasianthus                                                                                                                                                                                                                                                                                                     |   |   |   |             |                |                                             |   |                                                                                         |   |    |                |

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

| Site: Deer Point Lake (Z1-LL-11015). Storet. |   |   |   |    |                | Date: _____ SBIO ID _____ Macro ID _____          |   |   |   |    |                |
|----------------------------------------------|---|---|---|----|----------------|---------------------------------------------------|---|---|---|----|----------------|
| 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                        | 1 | 1 | 1 | 1  |                | Saururus cernuus                                  | 1 |   | 1 | 1  |                |
| *Najas filifolia                             |   |   |   |    |                | Schinus terebinthifolius                          |   |   |   |    |                |
| *Najas guadalupensis                         |   |   |   |    |                | *Schoenoplectus californicus                      |   |   |   |    |                |
| *Najas minor                                 |   |   |   |    |                | *Schoenoplectus pungens                           |   |   |   |    |                |
| Nelumbo lutea                                |   |   | 1 |    |                | *Schoenoplectus tabernaemontani (Scirpus validus) |   |   |   |    |                |
| Nitella spp.                                 |   |   |   |    |                | Scirpus cubensis (Oxycaryon cubense)              |   |   |   |    |                |
| Nuphar sp.                                   | 1 | 1 | 1 | 1  |                | Scirpus cyperinus                                 |   |   |   |    |                |
| Nymphaea odorata                             | 1 | 1 | 1 | 1  |                | *Sesbania                                         |   |   |   |    |                |
| Nymphoides aquatica cork-like                | 1 | 1 | 1 | 1  | ✓              | Solidago sp.                                      |   |   |   |    |                |
| Nyssa sylvatica var. biflora                 | 1 |   |   |    |                | Sparganium americanum                             |   |   |   |    |                |
| Orontium aquaticum                           |   |   |   |    |                | Spartina bakeri                                   |   |   |   |    |                |
| Osmunda cinnamomea                           | 1 | ✓ | 1 | 1  |                | Spirodela polyrhiza                               |   |   |   |    |                |
| Osmunda regalis                              |   |   |   |    |                | Taxodium sp.                                      | 1 | 1 | 1 | 1  |                |
| Panicum hemitomon                            |   |   |   |    |                | Thalia geniculata                                 |   |   |   |    |                |
| Panicum repens                               |   |   | 1 | 1  |                | Thelypteris palustris                             |   |   |   |    |                |
| Paspalidium geminatum                        |   |   |   |    |                | Triadenum virginicum                              |   |   |   | 1  | 1              |
| *Paspalum repens                             |   |   |   |    |                | Typha sp.                                         | 1 | 1 | 1 | 1  |                |
| Paspalum urvillei                            | 1 | 1 | 1 | 1  | ✓              | Urochloa mutica (Brachiaria mutica)               |   |   |   |    |                |
| Peltandra sp.                                |   |   |   |    |                | *Utricularia gibba (U. biflora)                   |   |   |   |    |                |
| Persea sp.                                   |   |   |   |    |                | *Utricularia floridana                            | 1 | 1 |   | 1  |                |
| 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 (Sphag. trilobata)              |   |   |   |    |                |
| *Polygonum                                   |   |   |   |    |                | Wolffiella spp.                                   |   |   |   |    |                |
| Pontederia cordata                           | 1 | 1 | 1 | 1  |                | Woodwardia virginica                              |   |   |   |    |                |
| *Potamogeton diversifolius                   |   |   |   |    |                | Xyris sp.                                         |   |   |   |    |                |
| *Potamogeton illinoensis                     |   |   |   |    |                | Zizania aquatica                                  |   |   |   |    |                |
| *Potamogeton pusillus                        |   |   |   |    |                | Zizaniopsis milacea                               |   |   |   |    |                |
| *Potamogeton pectinatus (Stuck. pectinatus)  |   |   |   |    |                | <del>Utricularia sp.</del>                        |   |   |   |    | +              |
| Proserpinaca pectinata                       |   |   |   |    |                | Amaranthus serotenus                              | 1 | 1 | 1 | 1  |                |
| *Rhexia                                      |   |   |   | 1  |                | Nymphoides cork-like                              |   |   |   |    | 1              |
| *Rhynchospora corniculata                    | 1 |   |   | 1  | ✓              | Long Leaf Pine                                    | 1 | 1 |   | 1  |                |
| *Rhynchospora inundata                       |   |   |   | 1  |                | Hibiscus grandiflorus                             |   |   |   |    | 1              |
| Rhynchospora tracyi so.                      |   |   |   | 1  |                | Albizia                                           |   |   |   |    | 1              |
| Ricciocarpus natans                          |   |   |   |    |                | Ipomoea (mossy)                                   |   |   |   | 1  | 1              |
| Sabal palmetto                               | 1 | 1 |   | 1  |                | Canna Lillie                                      |   |   | 1 | 1  | 1              |
| Sacciolepis striata                          |   |   |   | 1  |                | Potamogeton sp (cork-like)                        |   |   |   |    | 1              |
| *Sagittaria filiformis                       |   |   |   |    |                |                                                   |   |   |   |    |                |
| *Sagittaria graminea                         |   |   |   |    |                |                                                   |   |   |   |    |                |
| Sagittaria isoetiformis                      |   |   |   |    |                |                                                   |   |   |   |    |                |
| Sagittaria lancifolia                        | 1 | 1 | 1 | 1  |                |                                                   |   |   |   |    |                |
| Sagittaria latifolia                         | 1 | 1 | 1 | 1  |                |                                                   |   |   |   |    |                |
| Oil Tree (Alseodaphne ferdii)                |   |   |   | 1  |                |                                                   |   |   |   |    |                |

| Waterbody: Deer Point Lake (Z1-LL-11015)                                                                                                                   |   | County: Bay |   | Date:                                                                             |                |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------|---|-----------------------------------------------------------------------------------|----------------|---------------------|
| Analyst: F. Butera                                                                                                                                         |   | Signature:  |   | STORET:                                                                           |                |                     |
| 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, 2, 5, 8, 11<br>3, 6, 9, 12 |                |                     |
| It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa. |   |             |   |                                                                                   |                |                     |
| SBIO ID<br>SPECIES                                                                                                                                         | 2 | 5           | 8 | 11                                                                                | Collected? (✓) | Macro ID<br>SPECIES |
| <del>Orange Vine</del><br>(Invasive?)                                                                                                                      | 1 |             | 1 | 1                                                                                 |                |                     |
| <i>Sacchara gigantea</i>                                                                                                                                   |   |             |   | 1                                                                                 |                |                     |
| <i>Mentha grandifolia</i>                                                                                                                                  | 1 | 1           |   | 1                                                                                 |                |                     |
| <i>Lycopus</i> sp                                                                                                                                          | 1 | 1           |   | 1                                                                                 | ✓              |                     |
| <del>Long leaf</del><br>(Mock Bishop Weed)?                                                                                                                |   |             |   |                                                                                   |                |                     |
| <i>Phyllanthus capillaris</i>                                                                                                                              | 1 | 1           | 1 |                                                                                   |                |                     |
| <i>Hypericum brachyphyllum</i>                                                                                                                             | 1 | 1           |   |                                                                                   | ✓              |                     |
| Unk grass                                                                                                                                                  | 1 | 1           | 1 |                                                                                   | ✓              |                     |
| <del>Honey suckle</del>                                                                                                                                    |   |             |   |                                                                                   |                |                     |
| <i>Rhododendron viscosum</i>                                                                                                                               | 1 | 1           |   |                                                                                   |                |                     |
| <i>Laropendron Poplar</i>                                                                                                                                  |   | 1           |   |                                                                                   |                |                     |
| <i>Mexican petunia</i>                                                                                                                                     |   | 1           |   |                                                                                   |                |                     |
| <i>Oxypholis</i> f. l. form?                                                                                                                               |   | 1           |   |                                                                                   |                |                     |
| <i>Vitis</i>                                                                                                                                               | 1 | 1           | 1 | 1                                                                                 |                |                     |
| <del>Ginger (White)</del>                                                                                                                                  |   |             | 1 |                                                                                   |                |                     |
| <del>Ginger (Orange)</del>                                                                                                                                 |   | 1           | 1 |                                                                                   |                |                     |
| * <i>Max. petunia</i> (Ruellia Simplex)                                                                                                                    |   |             |   |                                                                                   |                |                     |

DEP-SOP-001/01  
FS 7000 General Biological Community Sampling

Form FD 9000-2: COMPOSITE LAKE SAMPLING SHEET (< 1000 ACRES)

| Date: 8/18/2017 | Name of Lake: Deer Point Lake, Z1-LL-11015 | Gear used: PONAR                      | EKMAN  | OTHER     |                                       |
|-----------------|--------------------------------------------|---------------------------------------|--------|-----------|---------------------------------------|
| Comments:       |                                            |                                       |        |           |                                       |
| Drop #          | Depth (m)                                  | Sediment Type (circle all that apply) | Drop # | Depth (m) | Sediment Type (circle all that apply) |
| 1               |                                            | sand, silt/clay, CPOM, muck, SAV      | 7      |           | sand, silt/clay, CPOM, muck, SAV      |
| 2               | 2.7                                        | sand, silt/clay, CPOM, muck, SAV      | 8      |           | sand, silt/clay, CPOM, muck, SAV      |
| 3               |                                            | sand, silt/clay, CPOM, muck, SAV      | 9      |           | sand, silt/clay, CPOM, muck, SAV      |
| 4               |                                            | sand, silt/clay, CPOM, muck, SAV      | 10     |           | sand, silt/clay, CPOM, muck, SAV      |
| 5               | 2.5                                        | sand, silt/clay, CPOM, muck, SAV      | 11     | 2.7       | sand, silt/clay, CPOM, muck, SAV      |
| 6               |                                            | sand, silt/clay, CPOM, muck, SAV      | 12     |           | sand, silt/clay, CPOM, muck, SAV      |

CPOM = coarse particulate organic matter; SAV = submerged aquatic vegetation

Storet  
WBID 553A

Field ID Z1LL11015 Project: Status Large 2017

SBIO ID:

Paste map here and show location of each dredge drop and where water chemistry parameters were collected.

Revision Date: February 1, 2004

Photo Log

Storet

Station Name: Z1-LL-11015 / Deer Point Lake

Date:

Samplers. F. Butera, S. Slade

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

7 \_\_\_\_\_

8 \_\_\_\_\_

9 \_\_\_\_\_

10 \_\_\_\_\_

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12 \_\_\_\_\_

13 \_\_\_\_\_

14 \_\_\_\_\_

15 \_\_\_\_\_

16 \_\_\_\_\_

17 \_\_\_\_\_

Notes.

# Z1-LL-11015 / Deer Point Lake

Receiving Water St. Andrew's Bay  
 Basin. St. Andrew's Bay

Lake Acreage 2021  
 Perimeter (M) 29030  
 Seg. length (M) 2419.166667

## Low-Water Conditions

| Location    | DMS                             | Dec Deg.                    |
|-------------|---------------------------------|-----------------------------|
| Status Lake | N30°17' 50.68" X W85°34' 18.42" | 30.297411389 x -85.57178289 |
| A           | N30°19' 00.16" X W85°34' 39.33" | 30.316711 x -85.577592      |
| B           | N30°18' 17.38" X W84°34' 29.17" | 30.304828 x -85.574769      |
| C           | N30°17' 16.12" X W85°34' 0.00"  | 30.287811 x -85.566667      |
| D           | N30°16' 30.42" X W85°33' 09.32" | 30.275117 x -85.552589      |
| E           | N30°16' 51.78" X W85°33' 48.53" | 30.28105 x -85.563481       |
| F           | N30°17' 55.77" X W85°34' 19.64" | 30.298825 x -85.572122      |
| G           | N30°17' 23.31" X W85°35' 10.92" | 30.289808 x -85.586367      |
| H           | N30°16' 20.06" X W85°35' 36.97" | 30.272239 x 85.593603       |
| I           | N30°15' 47.69" X W85°35' 30.77" | 30.263247 x -85.591881      |
| J           | N30°16' 20.55" X W85°36' 31.59" | 30.272375 x -85.608775      |
| K           | N30°16' 52.56" X W85°35' 55.87" | 30.281267 x -85.598853      |
| L           | N30°18' 01.01" X W85°35' 41.73" | 30.300281 x -85.594925      |
| M           | N30°18' 50.25" X W85°35' 36.12" | 30.313958 x 85.593367       |
| 32030109    | N30°17' 22.2" X W85°35' 33.6"   | 30.2895 x -85.592667        |

# Deer Point Lake (Z1-LL-11015) Low Water 2021 Acres

Status GPS (Triangle)

30.297411389 x -85.57178289



## RQ- NO RQ Number.

### Status Large Lakes. Z1-LL-10015. Deer Point Lake

#### Data Management (to be completed by field personnel)

- ☐ Date sampled Date: 08/18/2017
- ☐ Entered into MAT Date: 08/24/2017
- ☐ In SMP Tracker Date: N/A
- ☐ RQ Sheet – from LIMS (display/print request)
- ☐ Field Sheets scanned into local folder and  
initialed/dated on Field Sheets Date: \_\_\_\_\_
- ☐ Field Pictures in picture directory Date: \_\_\_\_\_
- ☐ Date submitted for LIMS data entry Date: \_\_\_\_\_

#### LIMS / STORET processing

- ☐ Field parameters entered into LIMS Date: \_\_\_\_\_
- ☐ Date submitted for QA/QC Date: \_\_\_\_\_
- ☐ Update "Data Entry Status" tracker
- ☐ Field parameters QA/QC in LIMS
- ☐ Data migrated to STORET Date: \_\_\_\_\_

#### Archiving

- ☐ Digital field Sheets put into archive
- ☐ Photos put into archive
- ☐ RQ put into archive
- ☐ Calibration log put into archive
- ☐ Lab results put into archive

Notes: LVI and YSI only. Status Large Lakes