



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: NEFF LAKE 2 CENTER Date: 6-5-19

WIN/ Field ID: G4SW0087 WBID: 13297 Latitude: 28.47655

County: HERMANO ORG ID: 21FLTPA Longitude: -82.32282

Receiving Body of Water: N/A RQ-2019- 06-03-15

| Sampling Team Members                  |  |  |  |  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  | Sampling Equipment                                   |                                                    |                               |
|----------------------------------------|--|--|--|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------|
| <u>Juan Ashton</u><br><u>BW Pasmun</u> |  |  |  |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn                  | <input type="checkbox"/> Pole |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe                   |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other                     |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | Depth Measured with: Secchi                          |                                                    |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | Equipment ID: Secchi #1                              |                                                    |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | Collection Method                                    |                                                    |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | <input type="checkbox"/> Wading                      | <input checked="" type="checkbox"/> Canoe/Kayak    |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | <input type="checkbox"/> From Shore                  | <input checked="" type="checkbox"/> Electric Motor |                               |
|                                        |  |  |  |  |                                     |                                     |                                     |                                     |                                     | <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor            |                               |

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# 8504 Matrix: Fresh Marine/ DI

Photos: Yes / No Flow: No Flow / Interstitial / Flowing (NA) Tide: Rising/ Falling/ Slack/ (NA) Tide Times: High Low

| Time Zone | Time | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L) | DO (%SAT) | pH   | Salinity (PPT <sub>h</sub> ) | Sp COND (μmhos/cm) | Temp. (C°) |
|-----------|------|-----------------|------------------|-----------------|-----------|-----------|------|------------------------------|--------------------|------------|
| EST       | 1215 | 3.9             | 0.3              | 0.7             | 5.73      | 76.4      | 6.72 | 0.03                         | 68                 | 31.35      |
|           |      |                 | 3.4              |                 | 0.27      | 3.4       | 6.03 | 0.04                         | 77                 | 26.07      |

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: 79830 HA-ID: 16072 RPS-ID: --- Macrophyte-ID: 11384 LIMS#: 2092192

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                       | Preservation                                                           | Lot#             | Expiration      | pH Check                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------|-----------------|----------------------------------------|
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                         | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> H2SO4 | <u>SA8344070</u> | <u>12/10/19</u> | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                         | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3             |                  |                 | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um Filter                                                                                                           | <input checked="" type="checkbox"/> Ice                                |                  |                 |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                          | <input checked="" type="checkbox"/> Ice                                |                  |                 |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                         | <input checked="" type="checkbox"/> Ice                                |                  |                 |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                 | <input type="checkbox"/> Ice                                           |                  |                 |                                        |
| Macroinvertebrates          | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                     | <input type="checkbox"/> Formalin                                      |                  |                 |                                        |
| Periphyton                  | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                       | <input type="checkbox"/> Ice                                           |                  |                 |                                        |
| Microbiology                | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                                                                                    | <input type="checkbox"/> Ice                                           |                  |                 |                                        |
| Molecular                   | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2<br><input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-DG3 <input type="checkbox"/> PCR-GFD        | <input type="checkbox"/> Ice                                           |                  |                 |                                        |
| Tracers                     | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                 | <input type="checkbox"/> Ice                                           |                  |                 |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R <input type="checkbox"/> W-E8321-DI<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-E8321-MS <input type="checkbox"/> W-CARB-AA | <input type="checkbox"/> Ice                                           |                  |                 |                                        |
| Phytoplankton               | <input type="checkbox"/> DTY-QN-C <input type="checkbox"/> PKD-QN-C                                                                                                                                                     |                                                                        |                  |                 |                                        |

Notes: RECEIVES WATER FROM MOUNTAIN LAKE - STAGGS LEVELS CONTROLLED BY SNTWARD

Field ID/WIN: G4SW0087

Site Name: Neff Center

Signature: [Signature] Date: 6-5-19

LIMS EVENT ID: 2019-06-06-01 WIN Import ID: 14196

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 06/18/2019 QC Station ID, Field Parameters In LIMS DMT: SM 08/26/2019

Scan/Save Field Sheets: SM 09/16/2019 Migrate Data to WIN: SM 08/26/2019 Verify Data In WIN: SM 09/16/2019

(Initials/Date)

(Initials/Date)

(Initials/Date)

|                                                   |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                              |                                                                                                                            |                                                                                                                                                                |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STORET STATION NUMBER:<br>SEE STICKER UPPER RIGHT | LAKE SIZE: <u>Varies</u>                                                                                                                                                                                                                                                                                                                       | LAKE NAME: <u>→</u>                                                                                                                                          | Site Name: <u>Neff Center</u>                                                                                              |                                                                                                                                                                |
| ECO-REGION:                                       | COUNTY: <u>Hernando</u>                                                                                                                                                                                                                                                                                                                        | SAMPLING LOCATION/DESCR:                                                                                                                                     |                                                                                                                            |                                                                                                                                                                |
| PARAMETER                                         | 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                                                                                                         |
| HYDROLOGY                                         | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/>                                                                                                                                     | <input checked="" type="checkbox"/>                                                                                        | <input checked="" type="checkbox"/>                                                                                                                            |
| Color                                             | Very clear, uncolored water (benthic sampling appropriate) <input type="checkbox"/>                                                                                                                                                                                                                                                            | Water somewhat tannin stained (benthic sampling appropriate) <input checked="" 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>                                                                                                                                                    |
| Secchi <u>7</u>                                   | Secchi > 3 m<br>Or VOB<br>20 19 18 17 16                                                                                                                                                                                                                                                                                                       | 3 2.6 2.2 1.8 1.4<br>15 14 13 12 11                                                                                                                          | 1.0 0.9 0.8 0.7 0.6<br>10 9 8 <u>7</u> 6                                                                                   | 0.5 0.4 0.3 0.2 0.1<br>5 4 3 2 1                                                                                                                               |
| Vegetation Quality <u>5</u>                       | Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa<br>20 19 18 17 16                                                                                                                                                                                                                                      | Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants<br>15 14 13 12 11 | Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats<br>10 9 8 7 6       | Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)<br><u>5</u> 4 3 2 1 |
| Stormwater Inputs <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 <u>14</u> 13 12 11                                  | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place<br>10 9 8 7 6   | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place<br>5 4 3 2 1                                 |
| Bottom Substrate Quality <u>12</u>                | Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present<br>20 19 18 17 16                                                                                                                                                                                                                                   | Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present<br>15 14 13 <u>12</u> 11                                        | Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom<br>10 9 8 7 6 | Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom<br>5 4 3 2 1                  |
| Lakeside Adverse Human Alterations <u>14</u>      | Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)<br>20 19 18 17 16                                                                                                                                                                                                                                            | Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected<br>15 <u>14</u> 13 12 11                                                | Many structures, roads or other human disturbance visible (50%-70%) lakeside affected<br>10 9 8 7 6                        | Highly developed or disturbed (>70% of lakeside affected)<br>5 4 3 2 1                                                                                         |
| Upland Buffer Zone <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                                                                                                                                                                                                                    | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer<br>15 14 13 <u>12</u> 11                                                                | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer<br>10 9 8 7 6                                      | < 29% of shoreline with >18m buffer<br>5 4 3 2 1                                                                                                               |
| Adverse Watershed Land Use <u>13</u>              | Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation/Silviculture/Pasture or Citrus/Low Density Residential/Row Crops/Commercial/High Density Residential/Urban/Industrial<br>20 19 18 17 16 15 14 <u>13</u> 12 11 10 9 8 7 6 5 4 3 2 1 |                                                                                                                                                              |                                                                                                                            |                                                                                                                                                                |
| TOTAL SCORE <u>77</u>                             | COMMENTS:                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                              |                                                                                                                            |                                                                                                                                                                |

ANALYSIS DATE: 6/5/19ANALYST: Ben PisswaterSIGNATURE: Ben Pisswater

SAMPLE ID: see sticker in upper right MACROPHYTE ID: 11384  
 COUNTY: Hernando WBID: 13292  
 LAKE SIZE: \_\_\_\_\_ TIME: 1215  
 SAMPLING AGENCY: FLDEP SW ROC

Site Name: Neff Center

## WATERSHED / LAKESIDE FEATURES

|                                                                                                                                                                                 |                                                                                                           |               |                                                                                                    |                                                                                             |                                                                                                            |            |                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category - from GIS):                                                                                |                                                                                                           |               |                                                                                                    | <b>LANDSCAPE DEVELOPMENT INTENSITY</b> (100 m buffer)                                       |                                                                                                            |            |                                                                                                                   |
| Forest/Natural                                                                                                                                                                  | Silviculture                                                                                              | Field/Pasture | Agricultural                                                                                       | Residential                                                                                 | Commercial                                                                                                 | Industrial | Other (Specify)                                                                                                   |
| <u>30</u>                                                                                                                                                                       |                                                                                                           | <u>50</u>     | <u>10</u>                                                                                          | <u>10</u>                                                                                   |                                                                                                            |            |                                                                                                                   |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |                                                                                                           |               |                                                                                                    | Artificially Impounded: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                                            |            |                                                                                                                   |
| Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |                                                                                                           |               |                                                                                                    | Land Use Source & Year:                                                                     |                                                                                                            |            |                                                                                                                   |
| <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 |
| <u>14</u>                                                                                                                                                                       | 20                                                                                                        | 19            | 18                                                                                                 | 17                                                                                          | 16                                                                                                         | 15         | 14                                                                                                                |
| <b>LAKESIDE ALTERATIONS</b>                                                                                                                                                     | Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)       |               | Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)              |                                                                                             | Many structures, roads or other human disturbance visible (50%-70% lakeside affected)                      |            | Highly developed or disturbed (>70% of lakeside affected)                                                         |
| <u>12</u>                                                                                                                                                                       | 20                                                                                                        | 19            | 18                                                                                                 | 17                                                                                          | 16                                                                                                         | 15         | 14                                                                                                                |
| <b>BUFFER ZONE</b>                                                                                                                                                              | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer |               | 89% of shoreline with >18m buffer or >75% with 10m to 18m buffer                                   |                                                                                             | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer                                    |            | < 29% of shoreline with >18m buffer                                                                               |
| <u>14</u>                                                                                                                                                                       | 20                                                                                                        | 19            | 18                                                                                                 | 17                                                                                          | 16                                                                                                         | 15         | 14                                                                                                                |

## 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 type="checkbox"/> Yes <input type="checkbox"/> No Lot # _____ Exp. Date: _____<br>Alkalinity Sample Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Water Level <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High                                                                                           |  |  |  |  |  | <b>Water Odors:</b> <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____                                                                                                                    |  |  |                            |  |  |
| <b>Meter Readings:</b><br>Top: <u>0.3</u> <u>31.35</u> <u>6.72</u> <u>5.73</u> <u>76.4</u> <u>68</u> <u>0.03</u><br>Mid-Depth: _____<br>Bottom: <u>3.4</u> <u>26.07</u> <u>6.03</u> <u>0.27</u> <u>3.4</u> <u>77</u> <u>0.04</u>                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  | <b>Water Surface Oils:</b> <input checked="" type="checkbox"/> None<br><input type="checkbox"/> Sheen/Slick <input type="checkbox"/> Glob <input type="checkbox"/> Other _____                                                                                                               |  |  |                            |  |  |
| Meter ID: <u>Busta</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 checked="" type="checkbox"/> Clear <input type="checkbox"/> Tannic <input type="checkbox"/> Green |  |  |                            |  |  |
| <b>Sediment Type:</b> (may check more than one)<br><input type="checkbox"/> Sandy <input checked="" type="checkbox"/> Organic fibrous (peaty, CPOM) <input type="checkbox"/> Vegetated<br><input checked="" type="checkbox"/> Sand/Silt <input type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                                            |  |  |  |  |  | <b>SECCHI (M)</b> <u>0.7</u> <b>Total Station Depth (M)</b> <u>3.9</u><br><b>VOB</b> <input type="checkbox"/>                                                                                                                                                                                |  |  |                            |  |  |
| <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 <input checked="" type="checkbox"/> Don't Know<br>Active Vegetation Mgmt? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't Know |  |  |  |  |  | <b>Sediment Odors:</b><br><input type="checkbox"/> Normal <input type="checkbox"/> Other (Specify): _____<br><input type="checkbox"/> Anaerobic                                                                                                                                              |  |  |                            |  |  |
| <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 checked="" type="checkbox"/> <input 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>Additional Notes:</b>                                                                                                                                                                                                                                                                     |  |  |                            |  |  |
| <b>Weather Conditions:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |                                                                                                                                                                                                                                                                                              |  |  |                            |  |  |
| <b>SAMPLING TEAM:</b> <u>Ben Paswater, Judy Ashton</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  | <b>SIGNATURE:</b> <u>Ben Paswater</u>                                                                                                                                                                                                                                                        |  |  | <b>DATE:</b> <u>6/5/19</u> |  |  |



Site Name: Neff Center

|                               |                        |
|-------------------------------|------------------------|
| Waterbody: <u>NEFF LAKE</u>   | County: <u>HELANDO</u> |
| Signature: <u>[Signature]</u> | Date: <u>6-5-19</u>    |

required. \*Genera that may require lab verification\*

 Lake units sampled (circle one group):  
 1, 4, 7, 10      2, 5, 8, 11  
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 (A-F)                            | 3 | 6 | 9 | 12 | Collected? (✓) | SPECIES (G-L)                              | 3 | 6 | 9 | 12 | Collected? (✓) |
|------------------------------------------|---|---|---|----|----------------|--------------------------------------------|---|---|---|----|----------------|
| Acer rubrum                              |   |   |   |    |                | Gordonia lasianthus                        |   |   |   |    |                |
| Alternanthera philoxeroides              | ✓ | ✓ | ✓ | ✓  |                | Habenaria repens                           |   |   |   |    |                |
| Andropogon sp.                           |   |   |   |    |                | Hymenachne amplexicaulis                   |   |   |   |    |                |
| Azolla filiculoides (A. caroliniana)     |   |   |   | ✓  |                | Hydrilla verticillata                      |   |   |   |    |                |
| Baccharis sp.                            |   |   |   |    |                | Hydrocotyle sp.                            |   |   |   |    |                |
| Bacopa caroliniana                       |   |   |   |    |                | Hygrophila polysperma                      |   |   |   |    |                |
| Bacopa monnieri                          |   |   |   |    |                | *Hypericum fasciculatum                    |   |   |   |    |                |
| Bidens laevis                            |   |   |   |    |                | *Hypericum hypericoides                    |   |   |   |    |                |
| Bidens mitis                             |   |   |   |    |                | *Hypericum myrtifolium                     |   |   |   |    |                |
| Blechnum serrulatum                      |   |   |   |    |                | Ilex cassine                               |   |   |   |    |                |
| Boehmeria cylindrica                     |   |   |   |    |                | Ipomoea aquatica                           |   |   |   |    |                |
| Brasenia schreberi                       |   |   |   |    |                | Ipomoea sagittata                          |   |   |   |    |                |
| Cabomba caroliniana                      |   |   |   |    |                | Itea virginica                             |   |   |   |    |                |
| Casuarina equisetifolia                  |   |   |   |    |                | Juncus effusus                             |   |   |   |    |                |
| Centella asiatica                        |   |   |   |    |                | *Juncus marginatus                         |   |   |   |    |                |
| Cephalanthus occidentalis                |   |   |   | ✓  |                | *Juncus megacephalus                       |   |   |   |    |                |
| Ceratophyllum demersum                   |   |   |   |    |                | Juncus repens                              |   |   |   |    |                |
| Chara sp.                                |   |   |   |    |                | *Juncus scirpoides                         |   |   |   |    |                |
| Cladium jamaicense                       |   |   |   |    |                | Lachnanthes caroliniana                    |   |   |   |    |                |
| Cliftonia monophylla                     |   |   |   |    |                | Leersia hexandra                           |   |   |   |    |                |
| Colocasia esculenta                      |   |   |   |    |                | Landoltia punctata (Spirodela punctata)    |   |   |   |    |                |
| *Commelina                               |   |   |   |    |                | Lemna sp.                                  |   |   |   |    |                |
| Crinum americanum                        |   |   |   |    |                | Leucothoe racemosa (Eubotrys racemosa)     |   |   |   |    |                |
| *Cyperus alternifolius (C. involucratus) |   |   |   |    |                | Limnium spongia                            |   |   |   |    |                |
| Cyperus articulatus                      |   |   |   |    |                | Limnophila sessiliflora                    |   |   |   |    |                |
| Cyperus haspan                           |   |   |   |    |                | Liquidambar styraciflua                    |   |   |   | ✓  |                |
| *Cyperus lecontei                        |   |   |   |    |                | *Ludwigia arcuata                          |   |   |   |    |                |
| *Cyperus polystachyos                    |   |   |   |    |                | *Ludwigia leptocarpa                       |   |   |   |    |                |
| *Cyperus odoratus                        |   |   |   |    |                | *Ludwigia linearis                         |   |   |   |    |                |
| *Cyperus surinamensis                    |   |   |   |    |                | *Ludwigia octovalvis                       |   |   |   |    |                |
| Cyrilla racemiflora                      |   |   |   |    |                | *Ludwigia peruviana                        |   |   |   |    |                |
| Decodon verticillatus                    |   |   |   |    |                | *Ludwigia repens                           |   |   |   |    |                |
| Diodia virginiana                        |   |   |   |    |                | *Ludwigia                                  |   |   |   |    |                |
| *Echinochloa crus-galli                  |   |   |   |    |                | Luziola fluitans (Hydrochloa carolinensis) |   |   |   |    |                |
| *Echinochloa muricatum                   |   |   |   |    |                | Lyonia lucida                              |   |   |   |    |                |
| Echinochloa walteri                      |   |   |   |    |                |                                            |   |   |   |    |                |
| Eclipta prostrata (E. alba)              |   |   |   |    |                |                                            |   |   |   |    |                |
| Egeria densa                             |   |   |   |    |                |                                            |   |   |   |    |                |
| Eichhornia crassipes                     |   |   |   |    |                |                                            |   |   |   |    |                |
| *Eleocharis baldwinii                    |   |   |   |    |                |                                            |   |   |   |    |                |
| *Eleocharis                              |   |   |   |    |                |                                            |   |   |   |    |                |
| Eleocharis cellulosa                     |   |   |   |    |                |                                            |   |   |   |    |                |
| Eleocharis equisetoides                  |   |   |   |    |                |                                            |   |   |   |    |                |
| Eleocharis interstincta                  |   |   |   |    |                |                                            |   |   |   |    |                |
| *Eriocaulon compressum                   |   |   |   |    |                |                                            |   |   |   |    |                |
| *Eriocaulon decangulare                  |   |   |   |    |                |                                            |   |   |   |    |                |
| Eupatorium capillifolium                 |   |   |   | ✓  |                |                                            |   |   |   |    |                |
| *Fuirena                                 |   |   |   |    |                |                                            |   |   |   |    |                |
| Fuirena scirpoidea                       |   |   |   |    |                |                                            |   |   |   |    |                |



Request Number: RQ-2019-06-03-15

# Florida Department of Environmental Protection Central Laboratory Submittal Form

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last revised Jan 25, 2018

LVIs

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By:

Collected By: Ben Paswater, Judy Ashton

Sampling Agency:

|              |                                                             |                                                                           |                                                             |                    |                                                                            |                               |                               |
|--------------|-------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------|--------------------|----------------------------------------------------------------------------|-------------------------------|-------------------------------|
| Location     |                                                             | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 6/5/19 Time 1215    | Eastern<br>Central | Composite end<br>Date                                                      | Time                          | Bottle Group(s)<br>(See pg 2) |
| Field ID/WIN | G4SW0087                                                    | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen       | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) | A                             |
| WIN          |                                                             | Temp (C)                                                                  | 31.35                                                       | pH                 | 6.72                                                                       | Sample Depth                  |                               |
| Site Name:   | Neff Center                                                 | Salinity (ppt)                                                            | 0.03                                                        | Comments           |                                                                            |                               |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |                                                                           |                                                             |                    |                                                                            |                               |                               |
| Location     | Field ID/WIN                                                | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 6/5/19 Time 1011    | Eastern<br>Central | Composite end<br>Date                                                      | Time                          | Bottle Group(s)               |
| Field ID     | G2SW0079                                                    | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen       | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) | A                             |
| WIN          |                                                             | Temp (C)                                                                  | 31.88                                                       | pH                 | 7.56                                                                       | Sample Depth                  |                               |
| Site Name:   | Lake Joyce @ Center                                         | Salinity (ppt)                                                            | 0.27                                                        | Comments           |                                                                            |                               |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |                                                                           |                                                             |                    |                                                                            |                               |                               |
| Location     | Field ID                                                    | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date                     | Eastern<br>Central | Composite end<br>Date                                                      | Time                          | Bottle Group(s)               |
| Field ID     |                                                             | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen       | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            | Total Res. Chlorine<br>(mg/L) |                               |
| WIN/STORET # |                                                             | Temp (C)                                                                  |                                                             | pH                 |                                                                            | Sample Depth                  |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt)     | Comments                                                                   |                               |                               |
| Location     | Field ID                                                    | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date                     | Eastern<br>Central | Composite end<br>Date                                                      | Time                          | Bottle Group(s)               |
| Field ID     |                                                             | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen       | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            | Total Res. Chlorine<br>(mg/L) |                               |
| WIN/STORET # |                                                             | Temp (C)                                                                  |                                                             | pH                 |                                                                            | Sample Depth                  |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt)     | Comments                                                                   |                               |                               |

|                  |             |                 |                            |              |           |
|------------------|-------------|-----------------|----------------------------|--------------|-----------|
| Relinquished By: | Date/Time   | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
| Ben Paswater     | 6/5/19 1600 | Fed Ex          | 1                          |              |           |

|          |                                                                                                    |         |                 |                             |                                              |
|----------|----------------------------------------------------------------------------------------------------|---------|-----------------|-----------------------------|----------------------------------------------|
| Group: A | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | P-1L    | # of Bottles: 2 | Preservative: ICE           | Enter Number of Bottles Sent to Lab <u>2</u> |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                                         | BP-1L   | # of Bottles: 2 | Preservative: ICE           | Enter Number of Bottles Sent to Lab <u>2</u> |
| Group: A | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    | P-500ML | # of Bottles: 2 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab <u>2</u> |
| Group: A | Bottle Type:<br>W-PO4-F                                                                            | P-125ML | # of Bottles: 2 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab <u>2</u> |