



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

**WIN Station Name:** Pearl Lake @ Center **Date:** 9/22/2020  
**WIN/Field ID:** G4SD0137 **WBID:** 1932D **ENR:** **Latitude:** 27.28361  
**County:** HIGHLANDS **Org ID:** 21FLFTM **Longitude:** -81.361223  
**Receiving Body of Water:** Kissimmee River **RQ:** 2020-09-21-43

| Sampling Team Members               |                 | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|-----------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | John Barrington |                 | x                 |               | x            | x                  |
| <input checked="" type="checkbox"/> | Miranda Carroll | x               |                   | x             |              |                    |
| <input type="checkbox"/>            |                 |                 |                   |               |              |                    |
| <input type="checkbox"/>            |                 |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy                 |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn               |
| <input checked="" type="checkbox"/> Syringe          | <input type="checkbox"/> Pole                   |
| Depth measured with: Secchi                          |                                                 |
| Secchi Equipment ID: DEEP BLUE                       |                                                 |
| Collection Method                                    |                                                 |
| <input type="checkbox"/> Wading                      | <input checked="" type="checkbox"/> Canoe/Kayak |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor         |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor         |

|                                                                                                                                                                                                                                                                        |  |                 |  |              |  |                                  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|--------------|--|----------------------------------|--|--|--|--|--|
| <b>Water Level:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                |  |                 |  |              |  | <b>Meter ID#</b><br>PRO MOVE     |  |  |  |  |  |
| <b>Photos:</b> NO                                                                                                                                                                                                                                                      |  | <b>Flow:</b> NA |  | <b>Tide:</b> |  | <b>Tide Times:</b><br>High: Low: |  |  |  |  |  |
| <b>Biological Samples Collected:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> HA <input type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> Algae ID <input type="checkbox"/> LVS <input type="checkbox"/> LVI Other: |  |                 |  |              |  |                                  |  |  |  |  |  |
| <b>SBIO ID Numbers:</b>                                                                                                                                                                                                                                                |  |                 |  |              |  |                                  |  |  |  |  |  |
| <b>Notes:</b>                                                                                                                                                                                                                                                          |  |                 |  |              |  |                                  |  |  |  |  |  |

## Duplicate Sample

|                             |                  |                      |              |
|-----------------------------|------------------|----------------------|--------------|
| <b>Time Zone:</b> EST       | <b>Time:</b> N/A | <b>Field ID:</b> N/A | (WIN ID_DUP) |
| <b>WIN DMT Activity ID:</b> |                  |                      |              |

## Blank

|                       |                  |                          |                       |
|-----------------------|------------------|--------------------------|-----------------------|
| <b>Time Zone:</b>     | <b>Time:</b> N/A | <b>Field ID:</b> N/A     | (Blank Type_DDMMYYYY) |
| <b>DI Source:</b> N/A |                  | <b>Location:</b> N/A     |                       |
| <b>DI Type:</b> N/A   |                  | <b>Equipment ID:</b> N/A |                       |

LIMS EVENT ID: WIN Import ID:  
Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:  
(Initials/Date) (Initials/Date)  
Scan/Save Field Sheets Migrate Data to WIN: Verify Data In WIN:  
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2020-09-21-43

Customer: WQAP

Project ID: SMP

Collected By: John Barrington, Miranda Carroll

Field Report Prepared By: John Barrington

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4SD0137

Location: Pearl Lake @ Center

Comments: Lake deeper than secchi line, bottom read is as deep as sonde cable

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

| Date      | Time         | DO (mg/L) | DO (%SAT) | Temp. (C°) | pH   | Sample Depth (m) | Secchi Disk (m)                         | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTH) |
|-----------|--------------|-----------|-----------|------------|------|------------------|-----------------------------------------|-----------------|--------------------|-----------------|
| 9/22/2020 | 12:50<br>EST | 7.27      | 94.1      | 28.7       | 6.62 | 0.3              | 4.5<br><input type="checkbox"/> VOB (S) |                 | 101.7              | 0.05            |

Central Lab please use top row for login purposes

|  |              |     |    |      |      |     |  |  |       |      |
|--|--------------|-----|----|------|------|-----|--|--|-------|------|
|  | 12:55<br>EST | 7.2 | 93 | 28.6 | 6.49 | 8.5 |  |  | 101.7 | 0.05 |
|--|--------------|-----|----|------|------|-----|--|--|-------|------|

| Parameter Suite                    | Parameter Methods                                                                                                                                                                                                                                        | Preservation                                                                            | pH Check                               | # Bottles sent to Lab | Bottle Group |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP<br>Lot # SA9354050 Exp: 12/20/20                                                                                                                                         | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> H2SO4*                 | <input checked="" type="checkbox"/> <2 | 1                     | A            |
| Metals (P-500ML)                   | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP <input type="checkbox"/> W-HARD<br>Lot # Exp:                                                                                                                                            | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3* <input type="checkbox"/> <2 |                                        |                       |              |
| Filtered Nutrients (P125ML)        | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter<br>Filter Lot # 17024971<br>Syringe Lot # 0007557                                                                                          | <input checked="" type="checkbox"/> Ice                                                 |                                        | 1                     | A            |
| Chlorophyll (BP-1L)                | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Ice                                                 |                                        | 1                     | A            |
| Physical/Aggregate (Fresh) (P-1L)  | <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                                                 |                                        | 1                     | A            |
| Physical/Aggregate (Marine) (P-1L) | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Macroinvertebrates (PJ-2L)         | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                      | <input type="checkbox"/> Formalin                                                       |                                        |                       |              |
| Periphyton (PT-50ML)               | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                        | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Microbiology (Contract Lab Bottle) | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                                                                            | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Molecular (QPCR-P-500ML)           | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                             | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Tracers (BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA ( 5 ml of MCAA** Buffer Solution) | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
|                                    |                                                                                                                                                                                                                                                          | <input type="checkbox"/> Ice                                                            |                                        |                       |              |

Name:  
John Barrington  
Miranda Carroll

Signature:

John Barrington

Date:

09/22/2020

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Pearl Lake County: Highlands Date: 9/22/20  
 Analyst: Miranda Carroll John Burryton Signature: [Signature]  
 Except where noted as "sp." species level identification required. \*Genera that may require lab verification\*  
 Plants in bold= FLEPPC invasive exotic.  
 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.

STORET:  
 Lake units sampled (circle one group):  
 1, 4, 7, 10 2, 5, 8, 11  
 3, 6, 9, 12

| SPECIES                                          | 1 | 4 | 7 | 10 | Collected? (✓) | SPECIES                                        | 1 | 4 | 7 | 10 | Collected? (✓) |
|--------------------------------------------------|---|---|---|----|----------------|------------------------------------------------|---|---|---|----|----------------|
| Acer rubrum                                      |   |   |   |    |                | Habenaria repens                               |   |   |   |    |                |
| <b>Alternanthera philoxeroides</b>               |   |   |   |    |                | <b>Hydrilla verticillata</b>                   |   |   |   |    |                |
| Andropogon sp.                                   |   |   |   |    |                | Hydrocotyle sp.                                |   |   |   |    |                |
| Azolla filiculoides (A. caroliniana)             |   |   |   |    |                | <b>Hygrophila polysperma</b>                   |   |   |   |    |                |
| Baccharis sp.                                    |   |   |   |    |                | *Hypericum fasciculatum                        |   |   |   |    |                |
| Bacopa caroliniana                               |   |   |   |    |                | *Hypericum hypericoides                        |   |   |   |    |                |
| Bacopa monnieri                                  |   |   |   |    |                | *Hypericum myrtifolium                         |   |   |   |    |                |
| Bidens laevis                                    |   |   |   |    |                | Ilex cassine                                   |   |   |   |    |                |
| Bidens mitis                                     |   |   |   |    |                | <b>Ipomoea aquatica</b>                        |   |   |   |    |                |
| Blechnum serrulatum                              |   |   |   |    |                | Ipomoea sagittata                              |   |   |   |    |                |
| Boehmeria cylindrica                             |   |   |   |    |                | Itea virginica                                 |   |   |   |    |                |
| Brasenia schreberi                               |   |   |   |    |                | Juncus effusus                                 |   |   |   |    |                |
| Cabomba caroliniana                              |   |   |   |    |                | *Juncus marginatus                             |   |   |   |    |                |
| <b>Casuarina equisetifolia</b>                   |   |   |   |    |                | *Juncus megacephalus                           |   |   |   |    |                |
| Centella asiatica                                |   |   |   |    |                | Juncus repens                                  |   |   |   |    |                |
| Cephalanthus occidentalis                        |   |   |   |    |                | *Juncus scirpoides                             |   |   |   |    |                |
| Ceratophyllum demersum                           |   |   |   |    |                | Lachnanthes caroliniana                        |   |   |   |    |                |
| Chara sp.                                        |   |   |   |    |                | Leersia hexandra                               |   |   |   |    |                |
| Cladium jamaicense                               |   |   |   |    |                | <b>Landoltia punctata (Spirodela punctata)</b> |   |   |   |    |                |
| Cliftonia monophylla                             |   |   |   |    |                | Lemna sp.                                      |   |   |   |    |                |
| <b>Colocasia esculenta</b>                       |   |   |   |    |                | Leucothoe racemosa (Eubotrys racemosa)         |   |   |   |    |                |
| *Commelina                                       |   |   |   |    |                | Limnium spongia                                |   |   |   |    |                |
| Crinum americanum                                |   |   |   |    |                | <b>Limnophila sessiliflora</b>                 |   |   |   |    |                |
| * <b>Cyperus alternifolius</b> (C. involucratus) |   |   |   |    |                | Liquidambar styraciflua                        |   |   |   |    |                |
| Cyperus articulatus                              |   |   |   |    |                | *Ludwigia arcuata                              |   |   |   |    |                |
| Cyperus haspan                                   |   |   |   |    |                | *Ludwigia leptocarpa                           |   |   |   |    |                |
| *Cyperus lecontei                                |   |   |   |    |                | *Ludwigia linearis                             |   |   |   |    |                |
| *Cyperus polystachyos                            |   |   |   |    |                | *Ludwigia octovalvis                           |   |   |   |    |                |
| *Cyperus odoratus                                |   |   |   |    |                | * <b>Ludwigia peruviana</b>                    |   |   |   |    |                |
| *Cyperus surinamensis                            |   |   |   |    |                | Ludwigia repens                                |   |   |   |    |                |
| Cyrilla racemiflora                              |   |   |   |    |                | *Ludwigia                                      |   |   |   |    |                |
| Decodon verticillatus                            |   |   |   |    |                | Luziola fluitans (Hydrochloa carolinensis)     |   |   |   |    |                |
| Diodia virginiana                                |   |   |   |    |                | Lyonia lucida                                  |   |   |   |    |                |
| *Echinochloa crus-galli                          |   |   |   |    |                | Magnolia virginiana                            |   |   |   |    |                |
| *Echinochloa muricatum                           |   |   |   |    |                | Mayaca fluviatilis                             |   |   |   |    |                |
| Echinochloa walteri                              |   |   |   |    |                | <b>Melaleuca quinquenervia</b>                 |   |   |   |    |                |
| Eclipta prostrata (E. alba)                      |   |   |   |    |                | Micranthemum glomeratum                        |   |   |   |    |                |
| <b>Egeria densa</b>                              |   |   |   |    |                | Micranthemum umbrosum                          |   |   |   |    |                |
| <b>Eichhornia crassipes</b>                      |   |   |   |    |                | Mikania scandens                               |   |   |   |    |                |
| *Eleocharis baldwinii                            |   |   |   |    |                | <b>Mimosa pigra</b>                            |   |   |   |    |                |
| *Eleocharis                                      |   |   |   |    |                | Myrica cerifera                                |   |   |   |    |                |
| Eleocharis cellulosa                             |   |   |   |    |                | <u>BIDGNS ALBA</u>                             |   |   |   |    |                |
| Eleocharis equisetoides                          |   |   |   |    |                |                                                |   |   |   |    |                |
| Eleocharis interstincta                          |   |   |   |    |                |                                                |   |   |   |    |                |
| *Eriocaulon compressum                           |   |   |   |    |                |                                                |   |   |   |    |                |
| *Eriocaulon decangulare                          |   |   |   |    |                |                                                |   |   |   |    |                |
| Eupatorium capillifolium                         |   |   |   |    |                |                                                |   |   |   |    |                |
| *Fuirena                                         |   |   |   |    |                |                                                |   |   |   |    |                |
| Fuirena scirpoidea                               |   |   |   |    |                |                                                |   |   |   |    |                |
| Gordonia lasianthus                              |   |   |   |    |                |                                                |   |   |   |    |                |



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

| Site: LAKE PEARL                               |   |   |   |                | Date: 9/22/20                                     |  |  |   |                |
|------------------------------------------------|---|---|---|----------------|---------------------------------------------------|--|--|---|----------------|
| SPECIES                                        |   |   |   | Collected? (v) | SPECIES                                           |  |  |   | Collected? (v) |
| Myriophyllum aquaticum                         |   |   |   |                | Salix caroliniana                                 |  |  |   |                |
| *Myriophyllum heterophyllum                    |   |   |   |                | Salvinia minima                                   |  |  |   |                |
| *Myriophyllum laxum                            |   |   |   |                | Sambucus canadensis                               |  |  |   |                |
| *Myriophyllum pinnatum                         |   |   |   |                | Sapium sebiferum                                  |  |  |   |                |
| Myriophyllum spicatum                          |   |   |   |                | Saururus cernuus                                  |  |  |   |                |
| *Najas filifolia                               |   |   |   |                | Schinus terebinthifolius                          |  |  | P |                |
| *Najas guadalupensis                           |   |   |   |                | *Schoenoplectus californicus                      |  |  |   |                |
| *Najas minor                                   |   |   |   |                | *Schoenoplectus pungens                           |  |  |   |                |
| Nelumbo lutea                                  |   |   |   |                | *Schoenoplectus tabernaemontani (Scirpus validus) |  |  |   |                |
| Nitella spp.                                   |   |   |   |                | Scirpus cubensis (Oxycaryon cubense)              |  |  |   |                |
| Nuphar sp.                                     |   | P | P |                | Scirpus cyperinus                                 |  |  |   |                |
| Nymphaea odorata                               | P |   | P |                | *Sesbania                                         |  |  |   |                |
| Nymphoides aquatica                            |   |   |   |                | Solidago sp.                                      |  |  |   |                |
| Nyssa sylvatica var. biflora                   |   |   |   |                | Sparganium americanum                             |  |  |   |                |
| Orontium aquaticum                             |   |   |   |                | Spartina bakeri                                   |  |  |   |                |
| Osmunda cinnamomea                             |   |   |   |                | Spirodela polyrhiza                               |  |  |   |                |
| Osmunda regalis                                |   |   |   |                | Taxodium sp.                                      |  |  |   |                |
| Panicum hemitomon                              | P | P | P |                | Thalia geniculata                                 |  |  |   |                |
| Panicum repens                                 | P | P | P | P              | Thelypteris palustris                             |  |  |   |                |
| Paspalidium geminatum                          |   |   |   |                | Triadenum virginicum                              |  |  |   |                |
| *Paspalum repens                               | X | X |   |                | Typha sp.                                         |  |  |   | P              |
| Paspalum urvillei                              |   |   |   |                | Urochloa mutica (Brachiaria mutica)               |  |  |   |                |
| Peltandra sp.                                  |   |   |   |                | *Utricularia gibba (U. biflora)                   |  |  |   |                |
| Persea sp.                                     |   |   |   |                | *Utricularia floridana                            |  |  |   |                |
| Pennisetum purpureum                           |   |   |   |                | *Utricularia foliosa                              |  |  |   |                |
| Phragmites australis                           |   |   |   |                | *Utricularia inflata                              |  |  |   |                |
| Pinus elliotii                                 |   |   |   |                | *Utricularia purpurea                             |  |  |   |                |
| Pistia stratioides                             |   |   |   |                | *Utricularia cornuta                              |  |  |   |                |
| Pluchea sp.                                    |   |   |   |                | *Utricularia radiata                              |  |  |   |                |
| *Polygonum glabrum (densiflorum)               |   |   |   |                | Vallisneria americana                             |  |  |   |                |
| *Polygonum hydropiperoides                     |   |   |   |                | *Websteria confervoides                           |  |  |   |                |
| *Polygonum punctatum                           |   |   |   |                | Wedelia trilobata (Sphagneticola trilobata)       |  |  | P |                |
| *Polygonum                                     |   |   |   |                | Wolffiella spp.                                   |  |  |   |                |
| Pontederia cordata                             | P | P | P | P              | Woodwardia virginica                              |  |  |   |                |
| *Potamogeton diversifolius                     |   |   |   |                | Xyris sp.                                         |  |  |   |                |
| *Potamogeton illinoensis                       |   |   |   |                | Zizania aquatica                                  |  |  |   |                |
| *Potamogeton pusillus                          |   |   |   |                | Zizaniopsis milacea                               |  |  |   |                |
| *Potamogeton pectinatus (Stuckenia pectinatus) |   |   |   |                | SGRENOA REGENS                                    |  |  | P |                |
| Proserpinaca pectinata                         |   |   |   |                | QUERCUS SP                                        |  |  | P |                |
| *Rhexia                                        |   |   |   |                | Zizania aquatica                                  |  |  | P |                |
| *Rhynchospora corniculata                      |   |   |   |                | Vitis spp.                                        |  |  |   | P              |
| *Rhynchospora inundata                         |   |   |   |                | Hemlock (Picea maculata)                          |  |  |   | P              |
| Rhynchospora tracyi                            |   |   |   |                | Urtica lobata                                     |  |  |   |                |
| Ricciocarpus natans                            |   |   |   |                |                                                   |  |  |   |                |
| Sabal palmetto                                 |   |   |   |                |                                                   |  |  |   |                |
| Sacciolepis striata                            |   |   |   |                |                                                   |  |  |   |                |
| *Sagittaria filiformis                         |   |   |   |                |                                                   |  |  |   |                |
| *Sagittaria graminea                           |   |   |   |                |                                                   |  |  |   |                |
| *Sagittaria isoetiformis                       |   |   |   |                |                                                   |  |  |   |                |
| Sagittaria lancifolia                          | P | P | P | P              |                                                   |  |  |   |                |
| Sagittaria latifolia                           |   |   |   |                |                                                   |  |  |   |                |