FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

| | | | |
|---|---|---|---|
| **Date**: | 6/30/2021 | **Collected By:** | Jeremy Parrish,Brian Davis |
| **Customer**: | NE-DIST | **Sampling Agency:** | FDEP |
| **RQ**: | RQ-2021-06-28-14 | **Project ID**: | SMP |

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

**Number of Coolers Shipped**: 1 **Delivery Method:** FedEx

**FIELD ID (Labels) submitted under this RQ for this collection date.**

| Site Location | Field ID/WIN ID |
|---|---|
| LAKE ALICE CENTER | 20020052 |
| FB | FB_06302021 |

**RELINQUISHED BY(SIGNATURE)**:

**DATE/TIME**: 6/30/2021 1600CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By**: **Rec'd/Inspected Date**:

# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
# STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

| Meter Passed End of Day CCV |
|---|
| Yes / No |

**WIN Station Name:** LAKE ALICE CENTER **Date:** 6/30/2021

**WIN/Field ID:** 20020052 **WBID:** 2719A **ENR:** - **Latitude:** 29.6427

**County:** ALACHUA **Org ID:** 21FLA **Longitude:** -82.36

**Receiving Body of Water:** Ocklawaha **RQ-** 2021-06-28-14

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|---|---|---|---|---|---|
| [x] Jeremy Parrish | x | | x | | |
| [x] Brian Davis | | x | | x | |
| [ ] | | | | | |
| [ ] | | | | | |

**Sampling Equipment**

- [x] Sample Container
- [ ] Dipper
- [ ] Syringe
- [ ] Carboy
- [ ] Van Dorn
- [ ] Pole

**Depth measured with:** Sonar

**Secchi Equipment ID:**

**Collection Method**

- [ ] **Wading**
- [ ] **From Shore**
- [ ] **Other** _____
- [x] **Canoe/Kayak**
- [ ] **Electric Motor**
- [ ] **Gasoline Motor**

**Water Level:** [ ] Normal [ ] Low [x] High [ ] Dry [ ] Pooled [ ] Flooded

**Meter ID#** BRUCE

**Photos:** NO **Flow:** NA **Tide:**

**Tide Times:** High: Low:

**Biological Samples Collected:** [x] None [ ] HA [ ] SCI [ ] RPS [ ] Algae ID [ ] LVS [ ] LVI Other:

**SBIO ID Numbers:**

**Notes:**

CLOUDY, RECENT RAIN

## Duplicate Sample

**Time Zone:** CEN **Time:** **Field ID:** N/A (WIN ID_DUP)

**WIN DMT Activity ID:**

## Blank

**Time Zone:** CEN **Time:** 1045 **Field ID:** FB_06302021 (Blank Type_DDMMYYYY)

**DI Source:** Neroc **Location:** Lake alice

**DI Type:** Field Blank **Equipment ID:** Container

**DI Container (Name/ID):** Cargirl **DI Container Type:** 9l carboy

**LIMS EVENT ID:** **WIN Import ID:**

**Enter Field Parameters, Verify Station ID In LIMS DMT:** (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** BD 07/07/2021 (Initials/Date)

**Scan/Save Field Sheets** (Initials/Date) **Migrate Data to WIN:** (Initials/Date) **Verify Data In WIN:** (Initials/Date)

**RQ-**2021-06-28-14
**Customer:** WQAP
**Project ID:** SMP

Collected By: Jeremy Parrish, Brian Davis
Field Report Prepared By: Jeremy Parrish
Sampling Agency: FDEP

Place Label Here

**WIN ID/Field ID:** 20020052

**Location:** LAKE ALICE CENTER

**Comments:**

**Matrix:** Fresh

(Check one) ☒ GRAB ☐ COMPOSITE

| Date | Time | DO (mg/L) | DO (%SAT) | Temp. (C⁰) | pH | Sample Depth (m) | Secchi Disk (m) | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTh) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1030 CEN | 4.4 | 54.8 | 27.1 | 6.86 | 0.3 | 1 ☐ VOB (S) | 2.6 | 169.4 | 0.08 |
| 6/30/2021 | 1032 | 0.27 | 3.4 | 25.3 | 6.62 | 2 | Central Lab please use top row for login purposes | | 168 | 0.08 |
| | 1034 CEN | 0.24 | 2.9 | 25.2 | 6.54 | 2.1 | | | 170.7 | 0.08 |

| Parameter Suite | Parameter Methods | Preservation | pH Check | # Bottles sent to Lab | Bottle Group |
|---|---|---|---|---|---|
| **Preserved Nutrients (P-500ML)** | ☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | ☒ Ice ☒ $H_2SO_4$* | ☒ <2 | 1 | A |
| | **Lot #** Sa0353110 **Exp:** | 1/11/22 | | | |
| **Metals (P-500ML)** | ☐ W-ICPMS ☐ W-ICP ☐ W-HARD | ☐ Ice ☐ $HNO_3$* | ☐ <2 | | |
| | **Lot #** **Exp:** | | | | |
| **Filtered Nutrients (P125ML)** | ☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter | ☒ Ice | | 1 | A |
| | **Filter Lot #** Ronb38756 | | | | |
| | **Syringe Lot #** | | | | |
| **Chlorophyll (BP-1L)** | ☒ CHLSUITE-W | ☒ Ice | | 1 | A |
| **Physical/Aggregate (Fresh) (P-1L)** | ☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | ☒ Ice | | 1 | A |
| **Physical/Aggregate (Marine) (P-1L)** | ☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY | ☐ Ice | | | |
| **Macroinvertebrates (PJ-2L)** | ☐ MI-FW-QLDC **Formalin Lot #** | ☐ Formalin | | | |
| **Periphyton (PT-50ML)** | ☐ ALGAE-ID | ☐ Ice | | | |
| **Microbiology (Contract Lab Bottle)** | ☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab | ☐ Ice | | | |
| **Molecular (QPCR-P-500ML)** | ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD | ☐ Ice | | | |
| **Tracers (BG-500ML)** | ☒ W-E8321-DI ☒ W-E8321-MS | ☒ Ice | | 1 | A |
| **Pesticides (BG-500ML) (BG-1L)** | W-E8321-DI WE8321-MS W-PSNP-TQ x W-CT-CL-R W-PCL-TQ-R W-CARB-AA ( 5 ml of MCAA** Buffer Solution) | ☒ Ice | | 4 | A |
| **Phytoplankton/Periphyton** | DTY-QN-C PKD-QN-BV | ☐ Ice | | | |

**Name:**
Jeremy Parrish
Brian Davis

**Signature:** Jeremy Parrish

**Date:** 6/30/2021

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution

**RQ-** 2021-06-28-14 **Collected By:** Jeremy Parrish, Brian Davis

**Customer:** WQAP **Field Report Prepared By:** Jeremy Parrish, Brian Davis

**Project ID:** SMP **Sampling Agency:** FDEP

# BLANK

**FieldID:** FB_06302021

**Comments:**

**Matrix:** Field Blank (Check one) ☐ COMPOSITE ☒ GRAB

| Date | Time | DI Source: Neroc |
|---|---|---|
| 6/30/2021 | 1045 CEN | |

| Parameter Suite | Parameter Methods | | | Preservation | pH Check | # Bottles sent to Lab | Bottle Group |
|---|---|---|---|---|---|---|---|
| **Preserved Nutrients (P-500ML)** | ☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | | | ☒ Ice ☒ H2SO4 | ☒ <2 | 1 | B |
| | **Lot #** | sa0353110 | **Exp:** | 1/11/22 | | | |
| **Metals (P-500ML)** | ☐ W-ICPMS ☐ W-ICP | | | ☐ Ice ☐ H2SO4 | ☐ <2 | | |
| | **Lot #** | | **Exp:** | | | | |
| **Filtered Nutrients (P125ML)** | ☒ W-PO4-F Filter ☒ Field Filtered 0.45 µm | | | ☒ Ice | | 1 | B |
| | **Filter Lot #** | Ronb38756 | | | | | |
| | **Syringe Lot #** | | | | | | |
| **Physical/Aggregate (Fresh) (P-1L)** | ☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-IC / TDS | | | ☒ Ice | | 1 | B |
| **Physical/Aggregate (Marine) (P-1L)** | ☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY | | | ☐ Ice | | | |
| **Tracers (BG-500ML)** | ☐ W-E8321-DI ☐ W-E8321-MS | | | ☐ Ice | | | |
| **Pesticides (BG-500ML) (BG-1L)** | ☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) | | | ☐ Ice | | | |
| | | | | | | | |

**Name:** Jeremy Parrish, Brian Davis

**Signature:** Jeremy Parrish

**Date:** 6/30/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

## CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: YSI Bruce RQ- 2021-06-28-14 Project: SMP Lake Alice WB

**Notes:** (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

**Temperature (Quarterly) FT 1400** Date of Last Temperature Verification 5/17/21

| DO DEP SOP FT 1500 | Name | Date | Time CT-ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | % DO | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibr. | ~~JParnell BP~~ | 6/30/21 | 743 | 21.1 | 765.2 | 9.0 | — | 100.7 | — | 1.03 | (P) / F | (L) / F |
| ICV | | | 745 | 21.3 | 765.3 | 8.9 | 8.93 | 100.8 | — | 1.03 | (P) / F | (L) / F |
| CCV | JParnell | 6/30/21 | 1445 | 22.3 | 764 | 8.7 | 8.67 | 99.7 | — | — | (P) / F | (L) / F |
| CCV | | | | | | | | | | | P / F | L / F |

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
**Optical:** DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

| Spec. Cond. FT 1200 | Name | Date | Time CT-ET | Lot # | Expir. Date | Standard µmhos/cm | Meter Reading µmhos/cm | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|---|---|
| Calibr. | ~~JParnell~~ BP | 6/30/21 | 740 | 21042688 | 5/22 | 1000 | 1000 | (P) / F | (L) / F |
| ICV | | | 742 | 21042684 | 5/22 | 100 | 99.4 | (P) / F | (L) / F |
| CCV | JParnell | 6/30/21 | 1490 | 21042684 | 5/22 | 1413 | 1405 | (P) / F | (L) / F |
| CCV | | | | | | | | P / F | L / F |

Conductivity Acceptance criteria ± 5%

| pH DEP SOP FT 1100 | Name | Date | Time CT-ET | Lot # | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibr. | ~~JParnell~~ BP | 6/30/21 | 748 | 2012E34 | 12/22 | 7.02 | 21.0 | 7.02 | -29.0 | (P) / F | (L) / F |
| Calibr. | | | 750 | 2103654 | 3/23 | 4.00 | 21.1 | 4.00 | 146.5 | (P) / F | (L) / F |
| Calibr. | | | 752 | 2103653 | 4/22 | 10.04 | 21.3 | 10.04 | -198.3 | (P) / F | (L) / F |
| ICV | | | 756 | 2103659 | 3/23 | 4.00 | 21.2 | 3.99 | 145.9 | (P) / F | (L) / F |
| CCV | JParnell | 6/30/21 | 1451 | 2103653 | 9/22 | 10.00 | 21.3 | 10.11 | -203.7 | (P) / F | (L) / F |
| CCV | | | | | | | | | | P / F | L / F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 169.3, slope from 4 to 7 175.5 (both must be between 165 and 180 mV)

**Does meter have a depth sensor that will be used to measure total depth & sample depth?** (YES) / NO / NA (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 5/17/21
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: _____; Date of last verification: _____

| Depth Sensor (Daily Calibration & ICV) | Name | Date | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|
| Pressure mode in air | Blair Davis | 6/30/21 | 800 | 0.00 | 0.00 | (P) / F | (L) / F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

**COMMENTS:**

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

SAMPLE ID: 82553 | MACROPHYTE ID: | LATITUDE: 29.64272
COUNTY: Alachua | STORET #: 20020052 | LONGITUDE: -82.36163
DATE: 6/30/21 | TIME: 1030 | SAMPLING AGENCY:
SITE NAME: Lake Alice Center | WBID: 2719A
FIELD ID/NAME: | LAKE SIZE: | RQ:

## WATERSHED / LAKESIDE FEATURES

**PREDOMINANT LAND-USE IN WATERSHED** (specify relative percent in each category – from GIS ):

| Forest/Natural | Silviculture | Field/Pasture | Agricultural | Residential | Commercial | Industrial | Other (Specify) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)**
LDI:
Land Use Source & Year:

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy
**Artificially Impounded** ☐ Yes ☐ No

| | | | | |
|---|---|---|---|---|
| STORMWATER INPUTS 10 | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 |
| LAKESIDE ALTERATIONS 10 | 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) |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 |
| BUFFER ZONE 10 | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer | < 29% of shoreline with >18m buffer |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 |

## WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

**Water:**
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No
Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____
Alkalinity Sample Taken? ☒ Yes ☐ No
Water Level ☐ Low ☐ Normal ☐ High

**Water Odors:** ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____

**Water Surface Oils:** ☒ None ☐ Sheen/Slick ☒ Glob ☐ Other Filamentous Algae

**Meter Readings:**

| | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat. (%) | Cond. (UMHO/CM) | Salinity (PPT) |
|---|---|---|---|---|---|---|---|
| Top: | 0.3 | 27.1 | 6.86 | 4.4 | 54.8 | 169.4 | 0.08 |
| Mid-Depth: | 2.0 | 25.3 | 6.02 | 0.27 | 3.4 | 108 | 0.08 |
| Bottom : | 2.21 | | | | | | |

Meter ID:

**Clarity:** ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid
**Color:** ☒ Clear ☐ Tannic ☐ Green

SECCHI (M) 1.0
VOB ☐
Total Station Depth (M) 2.6

**Sediment Type:** (may check more than one) Sample Taken? ☐ Yes ☐ No
☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated
☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify):_____

**Sediment Odors:** ☒ Normal ☐ Other (Specify):
☐ Anaerobic

**Biological Communities:**
LVI Conducted? ☒ Yes ☐ No
Phytoplankton Sample Taken? ☐ Yes ☒ No
Sample Preserved? ☒ Yes ☐ No
Lot #: _____ Exp Date: _____
Algal Bloom/Algal ID Sample Taken? Yes No
Active Vegetation Mgmt? ☒ Yes ☐ No ☐ Don't Know

**Abundance:**

| | Absent | Rare | Common | Abundant |
|---|---|---|---|---|
| Periphyton | ☐ | ☐ | ☐ | ☒ |
| Nuisance Plants | ☐ | ☒ | ☐ | ☐ |
| Submersed Plants | ☐ | ☐ | ☐ | ☒ |
| Exotic Apple Snails | ☐ | ☐ | ☒ | ☐ |

**Additional Notes:**

**Weather Conditions :** Overcast

SAMPLING TEAM: Jeremy Linn | SIGNATURE: Jeremy Linn | DATE: 6/30/21

sho 82553

# DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

| STORET STATION NUMBER: 2002052 | DATE (M/DAY/YR): 6/30/21 | LAKE NAME: Lake Alice central | FIELD ID / NAME: |
|---|---|---|---|
| ECO-REGION: | COUNTY: Alachua | SAMPLING LOCATION/DESCRIPTION: | LAKE SIZE: |

| PARAMETER | | | | |
|---|---|---|---|---|
| **HYDROLOGY** | 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 ☐ |
| **Color** | Very clear, uncolored water (benthic sampling appropriate) ☒ | Water somewhat tannin stained (benthic sampling appropriate) ☐ | Dark, discolored water (water color 20 PCU or higher) ☐ | Visibility extremely reduced due to high color ☐ |

| | Optimal | | | | | Suboptimal | | | | | Marginal | | | | | Poor | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Secchi** 10 | Secchi >3 m | | | | | 3 | 2.6 | 2.2 | 1.8 | 1.4 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 |
| | Or VOB | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Vegetation Quality** 13 | Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa | | | | | Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants | | | | | Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats | | | | | Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Stormwater Inputs** 10 | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation | | | | | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place | | | | | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place | | | | | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Bottom Substrate Quality** 13 | Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present | | | | | Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present | | | | | Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom | | | | | Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Lakeside Adverse Human Alternations** 10 | Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) | | | | | Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected | | | | | Many structures, roads or other human disturbance visible (50%-70%) lakeside affected) | | | | | Highly developed or disturbed (>70% of lakeside affected) | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Upland Buffer Zone** 10 | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer | | | | | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer | | | | | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer | | | | | < 29% of shoreline with >18m buffer | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Adverse Watershed Land Use** 8 | Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial | | | | | | | | | | | | | | | | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

| TOTAL SCORE | 74 | COMMENTS: |
|---|---|---|

| ANALYSIS DATE: 6/30/21 | ANALYST: Jerry Farr | SIGNATURE: Jerry Farr |
|---|---|---|

82553

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

| | | |
|---|---|---|
| Waterbody: LAKE Alice | County: Alachua | Date: 6/30/21 |
| Analyst: Glenn Bevis | Signature: Glenn Bevis | STORET: |

**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.**

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

| SPECIES | 2 | 5 | 8 | 11 | Collected? (√) | SPECIES | 2 | 5 | 8 | 11 | Collected? (√) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acer rubrum | √ | √ | √ | √ | | Habenaria repens | | | | | |
| **Alternanthera philoxeroides** | √ | √ | | √ | | **Hydrilla verticillata** | | | | | |
| Andropogon sp. | | | | | | Hydrocotyle sp. | √ | | √ | √ | |
| Azolla filiculoides (A. caroliniana) | | | | | | **Hygrophila polysperma** | | | | | |
| Baccharis sp. | | | | √ | | *Hypericum fasciculatum | | | | | |
| Bacopa caroliniana | | | | | | *Hypericum hypericoides | | | | | |
| Bacopa monnieri | | | | | | *Hypericum myrtifolium | | | | | |
| Bidens laevis | | | | | | Ilex cassine | | | | | |
| Bidens mitis | | | | | | **Ipomoea aquatica** | | | | | |
| Blechnum serrulatum | | | | | | Ipomoea sagittata | | | | | |
| Boehmeria cylindrica | | | | | | Itea virginica | | | | | |
| Brasenia schreberi | | | | | | Juncus effusus | | | | | |
| Cabomba caroliniana | | | | | | *Juncus marginatus | | | | | |
| **Casuarina equisitifolia** | | | | | | *Juncus megacephalus | | | | | |
| Centella asiatica | | | | | | Juncus repens | | | | | |
| Cephalanthus occidentalis | √ | √ | √ | √ | | *Juncus scirpoides | | | | | |
| Ceratophyllum demersum | D | D | D | D | | Lachnanthes caroliniana | | | | | |
| Chara sp. | | | | | | Leersia hexandra | | | | | |
| Cladium jamaicense | | | | | | **Landoltia punctata (Spirodela punctata)** | | | | | |
| Cliftonia monophylla | | | | | | Lemna sp. | √ | √ | √ | √ | |
| **Colocasia esculenta** | | | | | | Leucothoe racemosa (Eubotrys racemosa) | | | | | |
| *Commelina | | | | | | Limnobium spongia | | | | | |
| Crinum americanum | | | | | | **Limnophila sessiliflora** | | | | | |
| ***Cyperus alternifolius** (C. involucratus) | | | | | | Liquidamber styraciflua | | √ | | | |
| Cyperus articulatus | | | | | | *Ludwigia arcuata | | | | | |
| Cyperus haspan | √ | | | | | *Ludwigia leptocarpa | | | | | |
| *Cyperus lecontei | | | | | | *Ludwigia linearis | | | | | |
| *Cyperus polystachyos | | | | | | *Ludwigia octovalvis | | | | | |
| *Cyperus odoratus | √ | | | | | ***Ludwigia peruviana** | √ | | | | |
| *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 | | | | | | **Melaleuca quinquenervia** | | | | | |
| Eclipta prostrata (E. alba) | | | | | | Micranthemum glomeratum | | | | | |
| **Egeria densa** | | | | | | Micranthemum umbrosum | | | | | |
| **Eichhornia crassipes** | | | | | | Mikania scandens | | | √ | √ | |
| *Eleocharis baldwinii | | | | | | **Mimosa pigra** | | | | | |
| *Eleocharis | | | | | | Myrica cerifera | | | | √ | |
| Eleocharis cellulosa | | | | | | | | | | | |
| Eleocharis equisetoides | | | | | | Aster Carolinianus | √ | | | | |
| Eleocharis interstincta | | | | | | Pepper Vine | | | √ | | |
| *Eriocaulon compressum | | | | | | Bidens Alba | | | | √ | |
| *Eriocaulon decangulare | | | | | | | | | | | |
| Eupatorium capillifolium | √ | | | | | | | | | | |
| *Fuirena | | | | | | | | | | | |
| Fuirena scirpoidea | | | | | | | | | | | |
| Gordonia lasianthus | | | | | | | | | | | |

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

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