



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Lake Eckles

Date: 06/06/2019

WIN/ Field ID: G2SW0082

WBID: 1523D

Latitude: 28.05480

(mm/dd/yyyy)

County: Hillsborough

ORG ID: 21FLTPA

Longitude: -82.47190

(Decimal Degrees)

Receiving Body of Water: NA

RQ-2019- 05-06-15

(Decimal Degrees)

Sampling Team Members

Ben Paswater
Sarah Meyer

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☐ Syringe
☐ Dipper ☐ Other

Depth Measured with: Secchi

Equipment ID Secchi #1

Collection Method

☐ Wading ☒ Canoe/Kayak
☐ From Shore ☐ Electric Motor
☐ Other ☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# Cherry

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)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1400</u>	<u>1.7</u>	<u>0.3</u>	<u>0.9</u>	<u>7.46</u> <u>0.08</u>	<u>97.9</u> <u>179.5</u>	<u>7.59</u>	<u>0.08</u>	<u>179.5</u>	<u>29.5</u>
			<u>1.2</u>		<u>7.27</u>	<u>92.7</u>	<u>7.47</u>	<u>0.08</u>	<u>178.1</u>	<u>27.9</u>

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

SBIO ID Numbers: SBIO-ID: 79664 HA-ID: 15942 RPS-ID: Macrophyte-ID: 11312 LIMS#: 2084062

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	<u>SA8344070</u>	<u>12/19</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Place Preservative Sticker(s) Here
(If Available)

Notes:

Field ID/WIN

G2SW0082

Site Name: Lake Eckles @ Center

Signature: Sarah Meyer

Date: 05/06/2019

LIMS EVENT ID: 2019-05-07-02

WIN Import ID: 12740 13223

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 05/22/2019

QC Station ID, Field Parameters In LIMS DMT: SM 06/13/2019

Scan/Save Field Sheets SM 09/16/2019

Migrate Data to WIN: SM 07/31/2019

Verify Data In WIN: SM 09/16/2019

(Initials/Date)

(Initials/Date)

(Initials/Date)

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

STATION NUMBER: K/ER UPPER RIGHT	FIELD ID / NAME: PUT STICKER ^	LAKE NAME <u>Lake Eckles</u>		ECO-REGION: <u>7524</u>
PARAMETER	LAKE SIZE: <u>Medium</u>	SAMPLING LOCATION/DESCRIPTION: <u>Lake Center</u>		COUNTY: <u>Hillsborough</u>
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 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	Secchi >3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 11	1.0 0.9 0.8 0.7 0.6 10 9 8 7 6	0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality	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 20 19 18 17 16	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 15 14 13 12 11	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 10 9 8 7 6
Stormwater Inputs	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 20 19 18 17 16	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 15 14 13 12 11	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 10 9 8 7 6
Bottom Substrate Quality	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 20 19 18 17 16	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 15 14 13 12 11	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 10 9 8 7 6
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) ☒	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 20 19 18 17 16	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 15 14 13 12 11	Highly developed or disturbed (>70% of lakeside affected) 10 9 8 7 6
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18m buffer ☒	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 20 19 18 17 16	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 15 14 13 12 11	< 29% of shoreline with >18m buffer 10 9 8 7 6
Adverse Watershed Land Use	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	50			
COMMENTS:				

ANALYSIS DATE:

05/06/2019

ANALYST:

Ben Paswater

SIGNATURE:

Site Name: Lake Eckles @ Center

COUNTY: Hillsborough

LAKE SIZE: Medium

TIME: 1400

SAMPLING AGENCY: FLDEP SWROC

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural ☐ Silviculture ☐ Field/Pasture ☒ 20 Agricultural ☐ Residential ☒ 80 Commercial ☐ Industrial ☐ Other (Specify) ☐										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:				
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy										Artificially Impounded ☐ Yes ☒ No				
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy										Land Use Source & Year:				
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 8		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 3		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 _____															
Meter Readings: Top: Depth (M) 0.3 Temp. (°C) 29.5 pH (SU) 7.59 D.O. (MG/L) 6.08 D.O. Sat. (%) 97.9 Cond. (UMHO/CM) 179.5 Salinity (PPT) 0.08 Mid-Depth: _____ Bottom: 1.2 27.9 7.47 7.27 92.7 178.1 0.08								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____															
Meter ID: _____								Clarity: ☒ Clear ☐ Opaque ☒ Turbid ☐ Slightly Turbid Color: ☒ Clear ☒ Tannic ☐ Green															
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								SECCHI (M) 0.9 Total Station Depth (M) 1.7 VOB ☐															
Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____								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 :																							
SAMPLING TEAM: Ben Paswater Sarah Meyer								SIGNATURE:				DATE: 03-01-2014											

Paswater S Meyer

Waterbody: Lake Eckles

County: Hillsborough

ID: G2SW0082

Signature: Sarah Meyer

Date: 05/06/2019

pt where noted as "sp." species level identification required. *Genera that may require lab verification*

nts in bold = FLEPPC invasive exotic.

Lake units sampled (circle one group):

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.

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					
Alternanthera philoxeroides		✓	✓			Hymenachne amplexicaulis					
Andropogon sp.						Hydrilla verticillata					
Azolla filiculoides (A. caroliniana)						Hydrocotyle sp.	✓	✓	✓	✓	
Baccharis sp.						Hygrophila polysperma					
Bacopa caroliniana						*Hypericum fasciculatum					
Bacopa monnieri						*Hypericum hypericoides					
Bidens laevis						*Hypericum myrtifolium					
Bidens mitis						Ilex cassine					
Blechnum serrulatum						Ipomoea aquatica					
Boehmeria cylindrica						Ipomoea sagittata					
Brasenia schreberi			✓			Itea virginica					
Cabomba caroliniana						Juncus effusus					
Casuarina equisetifolia			✓			*Juncus marginatus	✓				
Centella asiatica						*Juncus megacephalus					
Cephalanthus occidentalis						Juncus repens					
Ceratophyllum demersum						*Juncus scirpoides					
Chara sp.						Lachnanthes caroliniana					
Cladium jamaicense						Leersia hexandra					
Cliftonia monophylla						Landoltia punctata (Spirodela punctata)					
Colocasia esculenta						Lemna sp.					
*Commelina						Leucothoe racemosa (Eubotrys racemosa)					
Crinum americanum						Limnium spongia					
* Cyperus alternifolius (C. involucratus)		✓				Limnophila sessiliflora					
Cyperus articulatus						Liquidambar styraciflua					
Cyperus haspan						*Ludwigia arcuata					
*Cyperus lecontei						*Ludwigia leptocarpa					
*Cyperus polystachyos						*Ludwigia linearis					
*Cyperus odoratus						*Ludwigia octovalvis					
*Cyperus surinamensis						* Ludwigia peruviana	✓				
Cyrilla racemiflora						*Ludwigia repens					
Decodon verticillatus						*Ludwigia					
Diodia virginiana						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa crus-galli						Lyonia lucida					
*Echinochloa muricatum											
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											
Gordonia lasianthus											

Field ID/WIN

G2SW0082



Site Name:

Lake Eckles @ Center

G2SW0082

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET



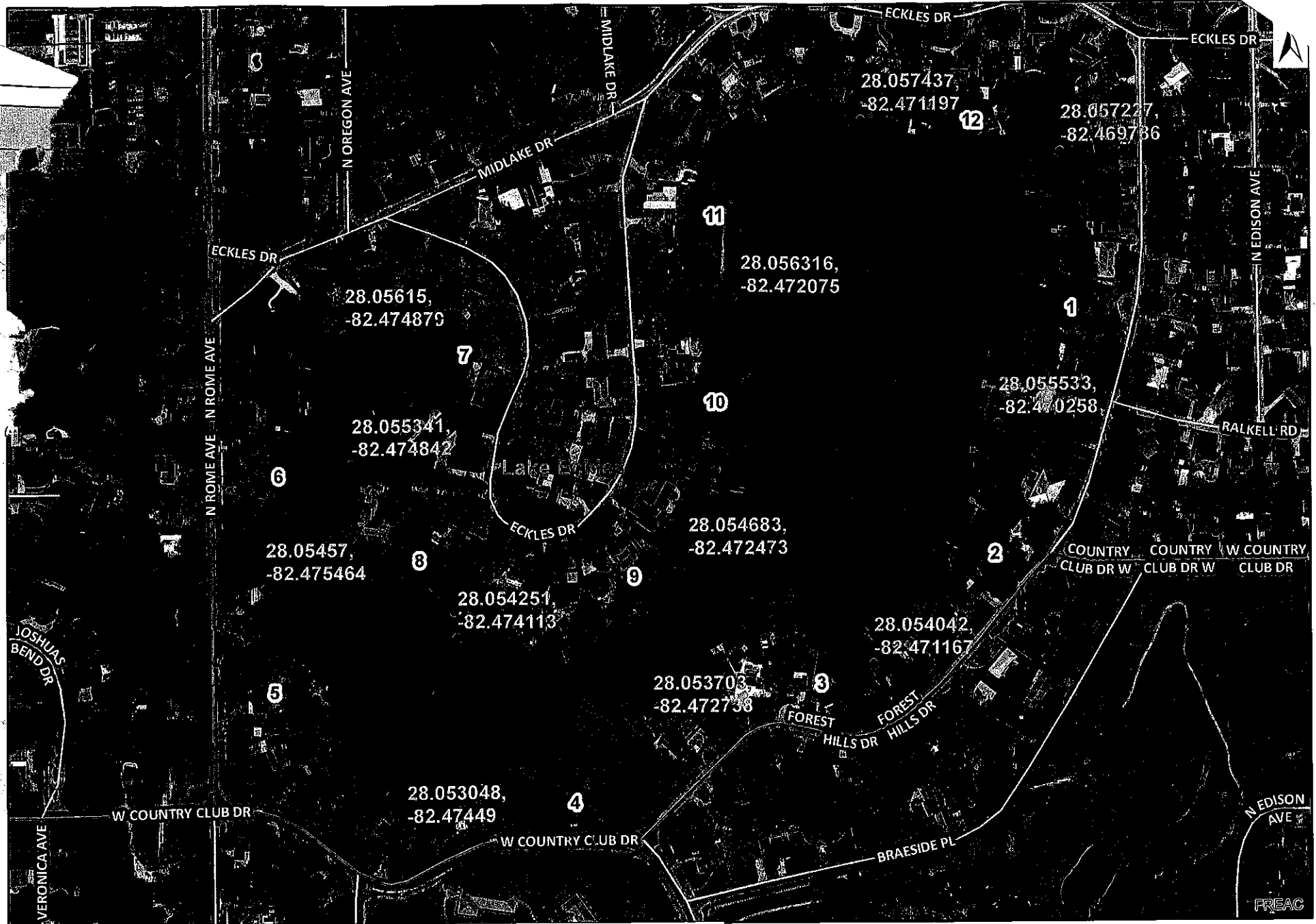
Date: 05/06/2019

Lake Eckles @ Center

SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
<i>Magnolia virginiana</i>						<i>Sabal palmetto</i>					
<i>Mayaca fluviatilis</i>						<i>Sacciolepis striata</i>					
<i>Melaleuca quinquenervia</i>	✓	✓	✓	✓		<i>*Sagittaria filiformis</i>					
<i>Micranthemum glomeratum</i>						<i>*Sagittaria graminea</i>					
<i>Micranthemum umbrosum</i>						<i>*Sagittaria isoetiformis</i>					
<i>Mikania scandens</i>						<i>Sagittaria lancifolia</i>	✓	✓	✓	✓	
<i>Mimosa pigra</i>						<i>Sagittaria latifolia</i>					
<i>Myrica cerifera</i>						<i>Salix caroliniana</i>	✓	✓			
<i>Myriophyllum aquaticum</i>						<i>Salvinia minima</i>					
<i>*Myriophyllum heterophyllum</i>	✓					<i>Sambucus canadensis</i>					
<i>*Myriophyllum laxum</i>						<i>Sapium sebiferum</i>					
<i>*Myriophyllum pinnatum</i>						<i>Saururus cernuus</i>					
<i>Myriophyllum spicatum</i>						<i>Schinus terebinthifolius</i>					
<i>*Najas filifolia</i>						<i>*Schoenoplectus californicus</i> (Cali bulrush)					
<i>*Najas guadalupensis</i>						<i>*Schoenoplectus pungens</i> (three square)					
<i>*Najas minor</i>						<i>*Schoenoplectus tabernaemontani</i> (softstem)					
<i>Nelumbo lutea</i>						<i>Scirpus cubensis</i> (Oxycaryon cubense)					
<i>Nitella</i> spp.						<i>Scirpus cyperinus</i>					
<i>Nuphar</i> sp.	✓	✓	✓	✓		<i>*Sesbania</i>					
<i>Nymphaea odorata</i>	✓	✓	✓	✓		<i>Solidago</i> sp.					
<i>Nymphoides aquatica</i>						<i>Sparganium americanum</i>					
<i>Nyssa sylvatica</i> var. <i>biflora</i>						<i>Spartina bakeri</i>					
<i>Orontium aquaticum</i>						<i>Sphagneticola trilobata</i> (Wedelia)	✓		✓	✓	
<i>Osmunda cinnamomea</i>						<i>Spirodela polyrrhiza</i>					
<i>Osmunda regalis</i>						<i>Taxodium</i> sp.		✓	✓		
<i>Panicum hemitomon</i>						<i>Thalia geniculata</i>					
<i>Panicum repens</i>	✓	✓	✓	✓		<i>Thelypteris palustris</i>					
<i>Paspalidium geminatum</i>						<i>Triadenum virginicum</i>					
<i>*Paspalum repens</i>						<i>Typha</i> sp.	✓	✓	✓	✓	
<i>Paspalum urvillei</i>						<i>Urochloa mutica</i> (<i>Brachiaria mutica</i>)					
<i>Peltandra</i> sp.						<i>*Utricularia gibba</i> (U. <i>biflora</i>)					
<i>Persea</i> sp.						<i>*Utricularia floridana</i>					
<i>Pennisetum purpureum</i>						<i>*Utricularia foliosa</i>					
<i>Phragmites australis</i>						<i>*Utricularia inflata</i>					
<i>Pinus elliotii</i>						<i>*Utricularia purpurea</i>					
<i>Pistia stratioides</i>						<i>*Utricularia cornuta</i>					
<i>Pluchea</i> sp.						<i>*Utricularia radiata</i>	✓	✓	✓	✓	
<i>*Polygonum glabrum</i> (densiflorum)	✓			✓		<i>Vallisneria americana</i>	✓	✓	✓	✓	
<i>*Polygonum hydropiperoides</i>						<i>*Websteria confervoides</i>					
<i>*Polygonum punctatum</i>						<i>Wolffiella</i> spp.					
<i>*Polygonum</i> sp.	✓	✓	✓	✓		<i>Woodwardia virginica</i>					
<i>Pontederia cordata</i>	✓	✓	✓	✓		<i>Xyris</i> sp.					
<i>*Potamogeton diversifolius</i>						<i>Zizania aquatica</i>					
<i>*Potamogeton illinoensis</i>						<i>Zizaniopsis milacea</i>					
<i>*Potamogeton pusillus</i>											
<i>*Potamogeton pectinatus</i>											
<i>Proserpinaca pectinata</i>											
<i>*Rhexia</i>	✓										
<i>*Rhynchospora corniculata</i>											
<i>*Rhynchospora inundata</i>											
<i>Rhynchospora tracyi</i>											
<i>Ricciocarpus natans</i>											

LVI Map for , WBID 1523D

Lake Eckle



Florida Department of Environmental Protection
Central Laboratory Submittal Form

LVIs_Eckles, Dorset & Pine

last revised Jan 25, 2018

Customer: SW-DIST

Requester: Judy Ashton

Field Report Prepared By: S Meyer

Project ID: SMP

Collected By: B Paswater & S Meyer

Sampling Agency: FDEP SW ROC

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/06/2019 Time 1010	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID/WIN G2SW0083 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 4.19	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Site Name: Dorset Lake @ Center		Temp (C) 27.6	pH 6.68	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 210.0
☐ dd ☐ dms		Salinity (ppt) 0.10	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/06/2019 Time 1140	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID/WIN G2SW0084 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 9.20	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Site Name: Pine Lake @ Center		Temp (C) 28.8	pH 8.90	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 199.6
☐ dd ☐ dms		Salinity (ppt) 0.09	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/06/2019 Time 1400	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID/WIN G2SW0082 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.46	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Site Name: Lake Eckles @ Center		Temp (C) 29.5	pH 7.59	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 179.5
☐ dd ☐ dms		Salinity (ppt) 0.08	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date _____ Time _____	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		

Relinquished By:

Sarah Meyer

Date/Time

1700
05/06/2019

Shipping Method

FedEx

Number of Coolers Shipped:

1

Received By:

Date/Time

Group: A Bottle Type: P-1L # of Bottles: 3 Preservative: ICE Enter Number of Bottles Sent to Lab 3

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Group: A Bottle Type: BP-1L # of Bottles: 3 Preservative: ICE Enter Number of Bottles Sent to Lab 3

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 3 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 3

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Group: A Bottle Type: P-125ML # of Bottles: 3 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 3

W-PO4-F

Group B Bloom-ID

1