



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

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March 2017

Date Qualified?

Yes / ☒ No

Location/STORET Station Name: Lake Lucy @ Center of lake

Date: 8/29/17

STORET # G1CE0070

WBID: 2839E

Latitude: 28.60217478

County: Lake RQ - 2017-08-28-27

ORG ID: 21PLCEN

Longitude: -81.85044385

Receiving Body of Water: _____

Field ID: G1CE0070

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Natalie Ayala		☒	☒	☒	☒	☒
Terry Riordan		☒	☒	☒	☒	☒

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other _____
Equipment ID _____	

Collection Method	
☐ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☒ Gasoline Motor

Water Level:	
Dry / Pooled / Low / <u>Normal</u> / High / Flooded	

Matrix:	
<u>Fresh</u> / Marine / DI	

Tide Falling:	
Yes / No / <u>NA</u>	

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)
EST	1225	0.3	3.7	5.4	88	6.1	0.05	1.2	100	29.6
CEN		3.2		4.7	61	5.0	0.05		100	28.9

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

SBIO ID Numbers: SBIO-ID: 78065 RPS-ID: N/A Macrophyte-ID: 10753 LIMS#: 192683

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	SA163030	6/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um 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-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QIDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Contains 1:1 Sulfuric Acid
Lot No.: SA7163030
Expires: 06/12/18
See Safety Data Sheet (SDS)

Contains 1:1 Sulfuric Acid
Lot No.: SA7163030
Expires: 06/12/18
See Safety Data Sheet (SDS)

Stickers Here

Notes:

Lake Lucy @ Center of Lake

Date: 08/29/17

RQ-2017-08-28-27

G1CE0070

Field ID ↑

STORET ↓

G1CE0070

Signature: _____

Field Parameters Entered into LIMS: NA 10/25/17

Date Migrated to STORET: LM 10/27/17

(Initials/Date)

Field Parameters QC in LIMS: 72 10/26/17

Field Sheets Scanned/Saved: 72 11/9/17

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78065 **MACROPHYTE ID:** _____ **LATITUDE:** 28.60217478
COUNTY: Lake **STORET #:** 6160070 **LONGITUDE:** -81.85044385
DATE: 8/29/17 **TIME:** _____ **SAMPLING AGENCY:** FDEP
SITE NAME: Lake Lox @ center of Lake **WBID:** 27395
FIELD ID/NAME: _____ **LAKE SIZE:** 1260219 m² **RQ:** 2017-08-28-27

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS): Forest/Natural <u>80</u> Silviculture _____ Field/Pasture _____ Agricultural <u>10</u> Residential <u>10</u> Commercial _____ Industrial _____ Other (Specify) _____				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>1.00 568</u>					
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: <u>2017</u>					
STORMWATER INPUTS <u>13</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 <u>13</u> 12 11		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6		Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1	
LAKESIDE ALTERATIONS <u>15</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16		Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) <u>15</u> 14 13 12 11		Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6		Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1	
BUFFER ZONE <u>10</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer <u>10</u> 9 8 7 6		< 29% of shoreline with >18m buffer 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: <u>0.3</u> <u>29.6</u> <u>6.1</u> <u>5.4</u> <u>71</u> <u>100</u> <u>29.6</u> Mid-Depth: _____ _____ _____ _____ _____ _____ _____ Bottom: <u>3.2</u> <u>28.9</u> <u>5.0</u> <u>4.7</u> <u>61</u> <u>100</u> <u>28.9</u>				Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____			
Meter ID: <u>Betty 67</u>				Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Tannic ☐ Clear ☐ Green			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____				SECCHI (M) <u>1.2</u> Total Station Depth (M) <u>3.7</u> VOB ☐			
Sediment Odors: ☐ Normal ☒ Other (Specify): <u>Not observed</u> ☐ 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:							
SAMPLING TEAM: <u>Natalie Ayala, Terry Riordan</u>				SIGNATURE: <u>Natalie Ayala</u>		DATE: <u>8/29/17</u>	

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Lucy a Center</u>		County: <u>Lake</u>		Date: <u>8/29/17</u>							
Analyst: <u>Natalie Ayala, Terry Riordan</u>		Signature: <u>Natalie Ayala</u>		STORET: <u>G1CE0070</u>							
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic.				Lake units sampled (circle one group): <u>1, 4, 7, 10</u> 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	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Acer rubrum	X	X	X			Fraxinus	X	X	X	X	
Alternanthera philoxeroides	X					Fuirena scirpoides					
Amaranthus australis						Gordonia lasianthus					
Andropogon sp.	X					Habenaria repens					
Azolla filiculoides (A. caroliniana)						Hibiscus coccineus					
Baccharis sp.						Hibiscus grandiflora					
Bacopa caroliniana	X		X	X		Hydrilla verticillata					
Bacopa monnieri						Hydrocotyle sp.					
Bidens alba		X				Hygrophila polysperma					
Bidens laevis						Hymenocallis sp.					
Bidens mitis						*Hypericum fasciculatum					
Blechnum serrulatum						*Hypericum hypericoides					
Boehmeria cylindrica						*Hypericum myrtifolium					
Brasenia schreberi						Ilex cassine	X	X			
Cabomba caroliniana						Ipomoea aquatica					
Canna						Ipomoea sagittata					
Centella asiatica						Itea virginica					
Cephalanthus occidentalis	X	X	X	X		Juncus effusus					
Ceratophyllum demersum						*Juncus marginatus					
Chara sp.						*Juncus megacephalus					
Cicuta maculata						Juncus repens					
Cinnamomum camphora						*Juncus scirpoides					
Cladium jamaicense		X	C	X		Lachnanthes caroliniana	X	X			
Colocasia esculenta						Leersia hexandra					
*Commelina						Landoltia punctata (Spirodela punctata)					
Crinum americanum						Lemna sp.					
*Cyperus alternifolius (C. involucratus)						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus articulatus						Limnobia spongia					
Cyperus haspan						Limnophila sessiliflora					
*Cyperus lecontei						Liquidambar styraciflua			X		
*Cyperus polystachyos	X					*Ludwigia arcuata					
*Cyperus odoratus	X	X		X		*Ludwigia grandiflora					
*Cyperus surinamensis						*Ludwigia hexapetala					
Cyrtilla racemiflora						*Ludwigia leptocarpa				X	
Decodon verticillatus						Ludwigia (native)					
Diodia virginiana						*Ludwigia octovalvis	X				
*Echinochloa crus-galli						*Ludwigia peruviana	X	X	X		
*Echinochloa muricatum						*Ludwigia repens					
Echinochloa walteri						Ludwigia suffruticosa					
Eclipta prostrata (E. alba)						Luziola fluitans (Hydrochloa carolinensis)			X	X	
Eichhornia crassipes						Magnolia virginiana		X			
*Eleocharis						Mayaca fluviatilis					
Eleocharis cellulosa						Melaleuca quinquenervia		X			
*Eleocharis elongata			X			Micranthemum glomeratum					
Eleocharis equisetoides						Micranthemum umbrosum					
Eleocharis interstincta			X	X	NA	Mikania scandens	X			X	
Eleocharis submersed viviparus	X	X	X			Mimosa pigra	X				
*Eriocaulon compressum						Myrica cerifera	X	X	X	X	
*Eriocaulon decangulare											
Eupatorium capillifolium		X									

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:						Date:					
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana		X		X	
*Myriophyllum heterophyllum						Salvinia minima				X	
*Myriophyllum laxum						Sambucus canadensis		X			
*Myriophyllum pinnatum						Sapium sebiferum		X			
Myriophyllum spicatum						Saururus cernuus		X			
*Najas filifolia						Schinus terebinthifolius	X	X			
*Najas guadalupensis	X			X		*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)	X	X			
Nuphar sp.	X	X	X	X		Scirpus cyperinus					
Nymphaea mexicana				X		*Sesbania sp.		X			
Nymphaea odorata	X			X	X	Solidago sp.					
Nymphoides aquatica	X	X	X	X	Ym	Sparganium americanum					
Nyssa sylvatica var. biflora			X			Spartina bakeri				X	
Orontium aquaticum						Spirodela polyrrhiza					
Osmunda cinnamomea						Taxodium sp.	X	X		X	
Osmunda regalis						Thalia geniculata					
Panicum hemitomon	X	X	C	X		Thelypteris interrupta					
Panicum repens	D	D	X	X		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum			X		Ym
*Paspalum repens						Typha sp.	X	X		X	
Paspalum urvillei	X					Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)				X	
Persea sp.						*Utricularia foliosa	X			X	
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea	X			X	
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vitis sp.	X	X	X		
Polygonum hirsutum						*Websteria confervoides					
*Polygonum hydropiperoides						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum punctatum						Wolffiella spp.					
*Polygonum						Woodwardia virginica				X	
Pontederia cordata	X	X	X	X		Xyris sp.					
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						Alimosa pgra	X				NA
*Potamogeton pectinatus (Stuckenia pectinatus)						Vrena lobata	X				
Proserpinaca pectinata						Cinnamomum camphora			X		
*Rhexia	X					Lantana (pink)			X		
*Rhynchospora serriculata sp.		X				Panicum virgatum			X		
*Rhynchospora inundata						Hibiscus grandiflora			X	X	X
Rhynchospora nitens						Utricularia floridana			X	X	X
Ricciocarpus natans			X			Quercus virginiana	X			X	
Sabal palmetto											
Sacciolepis striata	X										
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	X	X	X	X							
Sagittaria latifolia											