



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

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March 2017

Data Qualified?

Yes / No

Location/STORET Station Name: Lake Susan @ Center

Date: 9/5/2017

STORET # G1CE0071

WBID: 2839

Latitude: 28.51481264

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

ORG ID: 2IFLCEN

Longitude: -81.75728164

Receiving Body of Water: _____

Field ID: G1CE0071

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Natalie Ayala				X	X				☒ Sample Container	☐ Van Dorn	☐ Pole	
Terry Rorden					X	X	X		☐ 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			
Meter ID# <u>Betty 67</u>				Photos: <u>Yes</u> / No				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 (µmhos/cm)	Temp. (C°)		
EST	1440	0.4	3.9	4.6	62.8	4.9	0.03	0.4	73	31.7		
CEN		3.4		5.2	0.4	4.9	0.03		73	28.6		

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____
 SBIO ID Numbers: SBIO-ID: 78066 RPS-ID: N/A Macrophyte-ID: 10754 LIMS#: 1927559

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	SA716303D	6/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ 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.: SA716303D
 Expires: 06/12/18
 See Safety Data Sheet (SDS)

Notes:

Date: 09/05/2017

Time: _____

G1CE0071

Field ID

STORET

RQ-2017-08-28-28

G1CE0071

Signature: Natalie Ayala

Date: 9/5/17

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

Field Parameters QC in LIMS: 2R 10/26/17

Date Migrated to STORET: 2M 10/27/17

Field Sheets Scanned/Saved: 2R 11/9/17

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78066 MACROPHYTE ID: _____ LATITUDE: 28.51481264
 COUNTY: Lake STORET #: 6ICE0071 LONGITUDE: -81.75728164
 DATE: 9/5/2017 TIME: 1440 SAMPLING AGENCY: FDEP
 SITE NAME: Lake Susan @ Center WBID: 2839Y
 FIELD ID/NAME: 6ICE0071 LAKE SIZE: 331,117 sq m RQ: 2017-08-28-28

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>90</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>10</u> Commercial _____ Industrial _____ Other (Specify) _____				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>1.02</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>18</u>	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 <u>18</u> 17 16	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 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>17</u>	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 <u>17</u> 16	Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 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>16</u>	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 <u>16</u>	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 10 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>31.7</u> <u>4.9</u> <u>4.6</u> <u>62.8</u> <u>73</u> <u>0.03</u> Mid-Depth: _____ Bottom: <u>3.4</u> <u>28.6</u> <u>4.9</u> <u>5.2</u> <u>0.4</u> <u>73</u> <u>0.03</u>						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) <u>0.4</u> Total Station Depth (M) <u>3.9</u> VOB ☐											
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 :																	
SAMPLING TEAM: <u>Terry Riordan, Natalie Ayala</u>						SIGNATURE: <u>Natalie Ayala</u>			DATE: <u>9/6/17</u>								

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Susan</u>		County: <u>Lake</u>		Date: <u>9/5/17</u>							
Analyst: <u>Natalie Ayala, Terry Riordan</u>		Signature: <u>Natalie Ayala</u>		STORET: <u>CE0071</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						Fuirena scirpoides					
Alternanthera philoxeroides		/	/	/		Gordonia lasianthus					
Amaranthus australis						Habenaria repens					
Andropogon sp.	/					Hibiscus coccineus					
Azolla filiculoides (A. caroliniana)						Hibiscus grandiflora					
Baccharis sp.						Hydrilla verticillata					
Bacopa caroliniana						Hydrocotyle sp.					
Bacopa monnieri						Hygrophila polysperma					
Bidens alba						Hymenocallis sp.					
Bidens laevis						*Hypericum fasciculatum					
Bidens mitis						*Hypericum hypericoides					
Blechnum serrulatum		/	/			*Hypericum myrtifolium					
Boehmeria cylindrica						Ilex cassine	/	/	/	/	
Brasenia schreberi						Ipomoea aquatica					
Cabomba caroliniana						Ipomoea sagittata					
Canna						Itea virginica					
Centella asiatica						Juncus effusus					
Cephalanthus occidentalis	/	/		/		*Juncus marginatus					
Ceratophyllum demersum						*Juncus megacephalus					
Chara sp.						Juncus repens					
Cinnamomum camphora						*Juncus scirpoides					
Cladium jamaicense		/	/			Lachnanthes caroliniana					
Colocasia esculenta	/	/	/	/		Leersia hexandra					
*Commelina						Landoltia punctata (Spirodela punctata)					
Crinum americanum						Lemna sp.	/	/	/	/	
*Cyperus alternifolius (C. involucratus)						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus articulatus						Limnium spongia	/	/	/	/	
Cyperus haspan						Limnophila sessiliflora					
*Cyperus lecontei						Liquidambar styraciflua					
*Cyperus polystachyos						*Ludwigia arcuata					
*Cyperus odoratus						Ludwigia hex-grand-uruguayensis complex**					
*Cyperus surinamensis						*Ludwigia leptocarpa					
Cyrilla racemiflora	/			/		Ludwigia (native)					
Decodon verticillatus						*Ludwigia octovalvis	/	/	/	/	
Diodia virginiana						*Ludwigia peruviana	/	/	/	/	
*Echinochloa crus-galli						*Ludwigia repens					
*Echinochloa muricatum						Ludwigia suffruticosa					
Echinochloa walteri						Luziola fluitans (Hydrochloa carolinensis)					
Eclipta prostrata (E. alba)						Magnolia virginiana					
Eichhornia crassipes			/			Mayaca fluviatilis					
*Eleocharis						Melaleuca quinquenervia					
Eleocharis cellulosa						Micranthemum glomeratum					
*Eleocharis elongata						Micranthemum umbrosum					
Eleocharis equisetoides						Mikania scandens		/		/	
Eleocharis interstincta						Mimosa pigra					
Eleocharis submersed viviparous	/			/		Myrica cerifera	/	/	/	/	
*Eriocaulon compressum						<u>Urena lobata</u>	/	/	/	/	
*Eriocaulon decangulare						<u>Boehmeria</u>	/	/	/	/	
Eupatorium capillifolium	/	/				**Enter in SBIO as Ludwigia (unknown nativity) and note in comments that it was the hexapetala-grandiflora-uruguayensis complex					
Fraxinus											
<u>Eupatorium ceribonum</u>	/										

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	/	/			
*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 mexicana						*Sesbania					
Nymphaea odorata		/				Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora	/	/	/	/		Spartina bakeri					
Orontium aquaticum						Spirodela polyrhiza					
Osmunda cinnamomea						Taxodium sp.	/	e	/	e	
Osmunda regalis						Thalia geniculata					
Panicum hemitomon	/	/	/	/		Thelypteris interrupta					
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 foliosa					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.	/	/				Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vitis sp.			/		
Polygonum hirsutum						*Websteria confervoides					
*Polygonum hydropiperoides						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum punctatum						Wolffiella spp.	/	/	/	/	
*Polygonum						Woodwardia virginica	/	/	/	/	
Pontederia cordata	/	/		/		Xyris sp.					
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						Asteraceae caroliniana	/	/	/	/	NA
*Potamogeton pectinatus (Stuckenia pectinatus)						Risonia	/	/	/	/	NA
Proserpinaca pectinata						Climbing fern Lygodium japonicum	/	/	/	/	
*Rhexia						Mint	/	/	/	/	NA
*Rhynchospora corniculata						Quercus virginia	/	/	/	/	
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto	/										
Sacciolepis striata	/	/	/	/							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	/	/	/	/							
Sagittaria latifolia					NA						