



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

February 2016

Data Qualified?
Yes / No

STORET Station Name: Lake Florence @ Center

Date:

STORET Station ID: 20020658

(mm/dd/yyyy)

Latitude: 28.5975

(Decimal Degrees)

WBID: 2865A RQ: 2016-05-16-65 ORG ID: ZIFLUEN

Longitude: -81.68249

(Decimal Degrees)

Receiving Body of Water:

Field ID: G1CE0006

County: Lake

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
<u>Kate Williams</u>						
<u>Leif Roman</u>						

Water Level:	Dry / Low / <u>Normal</u> / High / Flooded	Matrix:	<u>Fresh</u> / Marine / DI
Meter ID# <u>11E/11C</u>	Photos: Yes / <u>No</u>	Tide Falling: <td>Yes / No / <u>NA</u></td>	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°)
<u>EST</u>	<u>1120</u>	<u>0.3</u>	<u>6.5</u>	<u>8.6</u>	<u>109</u>	<u>8.6</u>	<u>0.15</u>	<u>0.7</u>	<u>320</u>	<u>27.9</u>
<u>CEN</u>		<u>6.0</u>		<u>3.9</u>	<u>48</u>	<u>7.7</u>	<u>0.15</u>		<u>321</u>	<u>26.3</u>

Biological Samples Collected:	None	HA	SCI	LVS	RPS	<u>LVI</u>	Other			
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			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP						☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter						☒ Ice			
Chlorophyll	☒ CHLSUITE-W						☒ Ice			
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS						☒ Ice			
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY						☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC						☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR						☐ Ice			
Periphyton	☐ ALGAE-ID						☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R						☐ Ice			
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH						☐ Other			

Notes: <u>Aerators on lake</u>	Date: <u>05/16/16</u>	G1CE0006 Field ID STORET 20020658
	Time:	
Signature: <u>K Williams</u>	RQ-2016-05-16-65	Date: <u>5/16/16</u>

Field Parameters Entered into LIMS: _____ (Initials/Date) _____
Date Migrated to STORET: _____ (Initials/Date) _____
Field Parameters QC in LIMS: _____ (Initials/Date) _____
Field Sheets Scanned/Saved: _____ (Initials/Date) _____

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 76109 MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Lake STORET #: 20020658 LONGITUDE: _____
 DATE: 5/16/16 TIME: _____ SAMPLING AGENCY: _____
 SITE NAME: Lake Florence WBID: 2865A
 FIELD ID/NAME: GICE0006 LAKE SIZE: _____ RQ: 2016-05-16-65

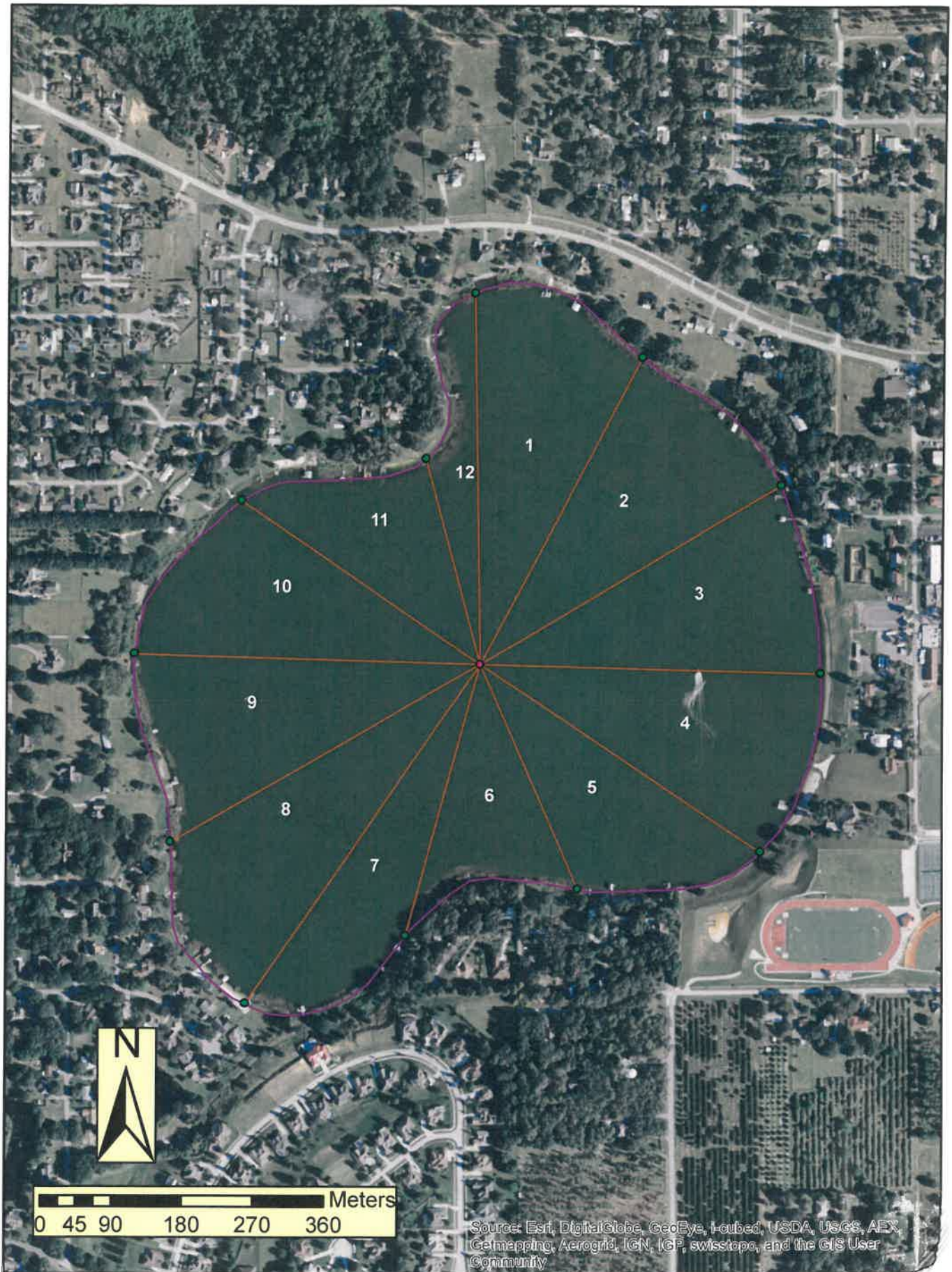
WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>3</u> Silviculture <u>2</u> Field/Pasture _____ Agricultural _____ Residential <u>90</u> Commercial _____ Industrial _____ School <u>5</u> 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 <u>2</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 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>2</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) 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>2</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 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 ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>5259020</u> Exp. Date: <u>9/16</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____					
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>27.9</u> <u>8.6</u> <u>8.6</u> <u>109</u> <u>320</u> <u>0.15</u> Mid-Depth: _____ Bottom: <u>6.0</u> <u>26.3</u> <u>7.7</u> <u>3.9</u> <u>48</u> <u>321</u> <u>0.15</u> Meter ID: <u>HE/11C</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____						Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>6.5</u> VOB ☐					
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						Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic					
Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐						Additional Notes: <u>Lots of veg removed and sandy beaches put in</u>					
Weather Conditions: <u>Sunny, hot</u>											
SAMPLING TEAM: <u>KMW/LGB</u>						SIGNATURE: <u>Williamis</u>			DATE: <u>5/16/16</u>		

Lake Florence (Lake County)



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

1, 4, 7, 10 2, 5, 8, 11
~~3, 6, 9, 12~~

SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
	1	2	3	4			1	2	3	4	
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 equisetifolia						*Juncus megacephalus					
Centella asiatica						Juncus repens					
Cephalanthus occidentalis						*Juncus scirpoides					
Ceratophyllum demersum						Lachnanthes caroliniana					
Chara sp.	✓					Leersia hexandra					
Cladium jamaicense						Landoltia punctata (Spirodela punctata)					
Cliftonia monophylla						Lemna sp.					
Colocasia esculenta						Leucothoe racemosa (Eubotrys racemosa)					
*Commelina	✓					Limnium spongia					
Crinum americanum						Limnophila sessiliflora					
*Cyperus alternifolius (C. involucratus)						Liquidambar 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					
Cynilla 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						Ridens alba	✓				
Eleocharis equisetoides						Ipomoea sp. talvassai	✓				
Eleocharis interstincta						Juncus spp				✓	
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena				✓							
Fuirena scirpoidea											
Gordonia lasianthus											

[illegible]