

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV☒ Yes / ☐ No

WIN Station Name:	Lake Conine @ Center				Sample Date:	9/21/2022		
WIN / Field ID:	G3CE0059	ORG ID:	21FLCEN	ENR:	-		Latitude:	28.05947
County:	Polk	WBID:	1488U	LAKE			Longitude:	-81.72444
Receiving Body of Water:	Lake Rochelle					RQ-	2022-07-25-12	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Katie March		x		x	x
Victoria Schwartz	x		x		

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
x	Syringe	Pole	
Syringe Lot# 2090604		Filter Lot# 17413308	
Secchi Equipment ID:		Light	
Collection Method			
	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
		x	Gasoline Motor
Depth Measured With Secchi			

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Shrimp Trap

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
EST	1140	4.7	0.3	7.07	94.1	30.3	7.43	1.3	181.7	0.08
	1145		2	7.16	94.2	29.6	7.37		181.6	0.08
	1148		4.2	3.66	48	29.2	6.96		182.3	0.08

Biological Samples Collected:

LVI

SBIO Visit ID: 85757

HA ID:

RPS ID:

Macrophyte ID:

12313

LIMS ID:

2358748

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
				Type	Lot#	Expiration Date	pH Check	
Microbiology								
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE				
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE				
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	132275	12/07/2022	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA1105100	6/7/2023	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates								
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise			
Molecular								
Periphyton								
Phytoplankton								
BOD								
Other(s)								
Field Comments:	Sunny							
Comments on COC:								
Relinquish Date:	09/21/2022	Signature:						

LIMS EVENT ID: CEN-DIST-2022-09-22-01

WIN Import ID: 36907

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 11/9/22

QC Station ID, Field Parameters In LIMS DMT: VLS 11/22/22

Save Field Sheets on Network: KWM 11/30/22 (Initials/Date)

Migrate Data to WIN: KWM 11/30/22 (Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.05947
 COUNTY: Polk STORET #: _____ LONGITUDE: -81.72444
 DATE: 9/21/22 TIME: 11:40 SAMPLING AGENCY: 21FLCEN
 SITE NAME: Lake Conine @ Center WBID: 1488U
 FIELD ID/NAME: G3CE0059 LAKE SIZE: _____ RQ: 2022-07-25-12

WATERSHED / LAKESIDE FEATURES

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

Forest/Natural 10 Silviculture _____ Field/Pasture 5 Agricultural 10 Residential 70 Commercial _____ Industrial _____ Other (Specify) 5

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy

Artificially Impounded

☐ Yes ☐ No

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

Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)

LDI: _____

Land Use Source & Year:

Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place

LAKESIDE ALTERATIONS

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)

BUFFER ZONE

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

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:

Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No

Color Sample Taken? ☒ Yes ☐ No Lot # 132275 Exp. Date: 12/7/22

Alkalinity Sample Taken? ☒ Yes ☐ No

Water Level ☐ Low ☒ Normal ☐ High

Water Odors:

☒ Normal

☐ Sewage ☐ Petroleum ☐ Other _____

Water Surface Oils:

☒ None

☐ Sheen/Slick ☐ Glob ☐ Other _____

Meter

Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT)

Top: 0.3 30.3 7.43 7.07 94.1 181.7 0.08

Mid-Depth: 2 29.6 7.37 7.16 94.2 181.6 0.08

Bottom: 4.2 29.2 6.96 3.66 48 182.3 0.08

Clarity:

☒ Clear

Color: ☐ Clear

☐ Opaque ☐ Turbid

☒ Tannic ☐ Green

☐ Slightly Turbid

SECCHI (M)

1.3

Total Station Depth (M)

VOB

☐

4.7

Meter ID:

Shrimp Trap

Sediment Type: (may check more than one)

☐ Sandy ☒ Organic fibrous (peaty, CPOM)

☐ Vegetated

☐ Sand/Silt ☐ Organic smooth (muck)

☐ Other (Specify): _____

Sample Taken? ☐ Yes ☒ No

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:

* wastewater facility located on South shore

Weather Conditions:

Sunny

SAMPLING TEAM:

Katie March/Victoria Schwab

SIGNATURE:

Katie March/Victoria Schwab

DATE:

9/21/22

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Conine</u>	County: <u>Polk</u>	Date: <u>9/21/22</u>
Analyst: <u>Katie March + Victoria Schwartz</u>	Signature: <u>K March / V Schwartz</u>	STORET: <u>G3CE0059</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): 1, 4, 7, 10 2, 5, 8, 11 <u>3, 6, 9, 12</u>
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	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	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					
Cladium jamaicense						*Juncus scirpoides					
Colocasia esculenta						Lachnanthes caroliniana					
*Commelina						Leersia hexandra					
Crinum americanum						Landoltia punctata (Spirodela punctata)					
*Cyperus alternifolius (C. involucratus)						Lemna sp.					
Cyperus articulatus						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus haspan						Limnium spongia					
*Cyperus lecontei						Limnophila sessiliflora					
*Cyperus polystachyos						Liquidambar styraciflua					
*Cyperus odoratus						*Ludwigia arcuata					
*Cyperus surinamensis						*Ludwigia grandiflora					
Cyrtilla racemiflora						*Ludwigia hexapetala					
Decodon verticillatus						*Ludwigia leptocarpa					
Diodia virginiana						Ludwigia (native)					
*Echinochloa crus-galli						*Ludwigia octovalvis					
*Echinochloa muricatum						*Ludwigia peruviana					
Echinochloa walteri						*Ludwigia repens					
Eclipta prostrata (E. alba)						Ludwigia suffruticosa					
Eichhornia crassipes						Luziola fluitans (Hydrochloa carolinensis)					
*Eleocharis <u>sp.</u>						Magnolia virginiana					
Eleocharis cellulosa						Mayaca fluviatilis					
*Eleocharis elongata						Melaleuca quinquenervia					
Eleocharis equisetoides						Micranthemum glomeratum					
Eleocharis interstincta						Micranthemum umbrosum					
Eleocharis submersed viviparous						Mikania scandens					
*Eriocaulon compressum						Mimosa pigra					
*Eriocaulon decangulare						Myrica cerifera					
Eupatorium capillifolium											
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Conine</u>					Date: <u>9/21/22</u>						
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	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.	/		/	/	
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 foliosa					
Persea sp.						*Utricularia gibba (U. biflora)					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii			/			*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.	/	/	/	/		Vallisneria americana	/	/	/	/	
*Polygonum glabrum (densiflorum)	/	/	/	/		Vigna luteola					
Polygonum hirsutum						Vitis sp.					
*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						<u>Luwigia erecta</u>				/	
*Rhynchospora corniculata											
*Rhynchospora inundata						<u>Fern → Thelypteris sp.</u>			/	/	✓
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	/			/							
Sagittaria latifolia											

LVI MAP FOR WBID 1488U LAKE CONINE

