



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

☒ Yes / ☐ No

WIN Station Name:	Lake Waumpi @ Center				Sample Date:	9/20/2022	
WIN / Field ID:	G2CE0224	ORG ID:	21FLCEN	ENR:	-	Latitude:	28.6317
County:	Orange	WBID:	2997A1	LAKE		Longitude:	-81.32988
Receiving Body of Water:	-					RQ-	2022-08-15-21

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Terry Riordan		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:		Knothead	
Collection Method			
	Wading	x	Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Secchi	

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

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	1247	1.5	0.3	6.84	90.5	30	7.3	1.3	211.7	0.1
	1250		1	5.14	66.8	28.9	7.04		212.5	0.1

Biological Samples Collected:		LVI								
SBIO Visit ID:	85756	HA ID:		RPS ID:		Macrophyte ID:	12312	LIMS ID:	2358198	

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	06/07/2023	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:	09/20/2022	Signature:						

LIMS EVENT ID: CEN-DIST-2022-09-21-01

WIN Import ID: 36904

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: 28.6317
 COUNTY: Seminole STORET #: G2CF0224 LONGITUDE: -81.32988
 DATE: 9/20/22 TIME: 1247 SAMPLING AGENCY: 2IFCEN
 SITE NAME: Lake Waumpi WBID: 2997A1
 FIELD ID/NAME: Lake Waumpi @ Center LAKE SIZE: 9.9 ac RQ: 2022-08-15-21

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS):										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)											
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)	LDI:													
<u>3025</u>				<u>65</u>	<u>10</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:											
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			Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place										
<u>10</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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)										
<u>9</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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										
<u>12</u>		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 ☐ No pH < 2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>132275</u> Exp. Date: <u>12/07/22</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____							
Meter Readings: Top: <u>0.3</u> <u>30.0</u> <u>7.3</u> <u>6.84</u> <u>90.5</u> <u>211.7</u> <u>0.10</u> Mid-Depth: _____ Bottom: <u>1.0</u> <u>28.9</u> <u>7.04</u> <u>5.14</u> <u>66.8</u> <u>212.5</u> <u>0.10</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>Craw Daddy</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid							
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify): _____								Color: ☒ Clear ☐ Tannic ☐ Green							
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 ☒ ☐ ☐ ☐							
Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic								Additional Notes: <u>Recent herbicide treatment observed along shorelines (mostly of Parizum r. + Scirpus)</u>							

Weather Conditions: Sunny Local resident says there is talk of a dock being built behind police training center (Water Park Point)

SAMPLING TEAM: Terry Rixson / Victoria Shurtz **SIGNATURE:** [Signature] **DATE:** 9/20/22

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Waumpi</u>	County: <u>Seminole</u>	Date: <u>9/20/22</u>					
Analyst: <u>Terry Riordan / Victoria Schuch</u>	Signature: <u>[Signature]</u>	STORET: <u>G2CE0224</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.							
	1 4 7 10	Collected? (✓)			1 4 7 10	Collected? (✓)	
SPECIES			SPECIES				
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	/		Limnobium 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	/		Magnolia virginiana	/			
Eleocharis cellulosa	/		Mayaca fluviatilis	/			
*Eleocharis elongata	/		Melaleuca quinquenervia	/			
Eleocharis equisetoides	/		Micranthemum glomeratum	/			
Eleocharis interstincta	/		Micranthemum umbrosum	/			
Eleocharis submersed viviparus	/		Mikania scandens	/			
*Eriocaulon compressum	/		Mimosa pigra	/			
*Eriocaulon decangulare	/		Myrica cerifera	/			
Eupatorium capillifolium	/						
Fraxinus	/						
			No Dominant sec. 4				

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Wauipi					Date: 7/20/22						
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		X				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)						<i>Sword Fern, Nephrolepis sp</i>	/	/	/	/	
Proserpinaca pectinata						Moss Not on taxa list	/	/	/	/	
*Rhexia						<i>climbing after</i>	/	/	/	/	
*Rhynchospora comiculata						<i>Symphyotrichum carolinianum</i>	/	/	/	/	
*Rhynchospora inundata						<i>Lily</i> Not a genus or species, can't enter	/	/	/	/	
Rhynchospora nitens						<i>Cinnamon fern</i>	/	/	/	/	
Ricciocarpus natans											
Sabal palmetto	/	/	/	/							
Sacciolepis striata		/	/	/							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	/	/	/	/							
Sagittaria latifolia	/	/	/	/							

LVI Map for Lake Waumpi, WBID 2997A1

