



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV☒ Yes ☐ No

WIN Station Name:	BUCK LAKE (NEAR GENEVA)AT CENTER				Sample Date:	6/13/2023	
WIN / Field ID:	G2CE0272	ORG ID:	21FLCEN	ENR:	-	Latitude:	28.71783
County:	SEMINOLE	WBID:	2991B	LAKE		Longitude:	-81.12489
Receiving Body of Water:	-				RQ-	2023-06-12-30	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Leif Boman		x		x	x
Victoria Schwartz	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe		Pole
	Syringe Lot# 2327923		Filter Lot# 17769663
	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
Depth Gauge ID:	depth_gauge

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	1242	3.5	0.3	7.37	98.4	30.5	6.31	2	104.3	0.05
	1247		2	7.21	95.8	30.1	6.45		104.3	0.05
	1249		3	3.35	43.8	29.1	6.4		105.1	0.05

Biological Samples Collected:

LVI

SBIO Visit ID:

87126

HA ID:

RPS ID:

Macrophyte ID:

LIMS Sample ID Entered

Into The Macrophyte Module:

2417146

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
	Type	Lot#	Expiration Date	pH Check				
Microbiology								
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE				
Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syringe Lot#:2327923; Filter Lot#:17769663			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA3013020	1/25/24	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	9/1/23	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								
DOC								
Other(s)					SyringeLot#		FilterLot#	
Field Comments:	Sunny							
Comments on COC:								
Relinquish Date:	06/13/2023	Signature:						

LIMS EVENT ID: CEN-DIST-2023-06-14-03

WIN Import ID: 41616

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 6/27/23

QC Station ID, Field Parameters In LIMS DMT: VLS 6/30/23

Save Field Sheets on Network: KWM 7/20/23 (Initials/Date)

Migrate Data to WIN: KWM 7/20/23

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** 28.71783
COUNTY: Seminole **STORET #:** G2CE0272 **LONGITUDE:** -81.12489
DATE: 6/13/23 **TIME:** 12:42 **SAMPLING AGENCY:** 21FLCEN
SITE NAME: Buck Lake (near Geneva) @ center **WBID:** 2991B
FIELD ID/NAME: G2CE0272 **LAKE SIZE:** _____ **RQ:** 2023-06-12-30

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)														
<u>70</u>				<u>30</u>																	
Local Watershed Erosion (select one) : ☒ None ☐ Slight ☐ Moderate ☐ Heavy										Artificially Impounded											
Local Watershed NPS Pollution : ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy										☐ 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			Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place										
<u>19</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>17</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>15</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 # _____ 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>30.5</u> <u>6.31</u> <u>7.37</u> <u>98.4</u> <u>104.3</u> <u>0.05</u> Mid-Depth: <u>2</u> <u>30.1</u> <u>6.45</u> <u>7.21</u> <u>95.8</u> <u>104.3</u> <u>0.05</u> Bottom: <u>3</u> <u>29.1</u> <u>6.4</u> <u>3.35</u> <u>43.8</u> <u>105.1</u> <u>0.05</u>										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Meter ID: <u>Shrimp Trap</u>										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>2</u> Total Station Depth (M) <u>3.5</u> VOB ☐									
Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____										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 : <u>Sunny/hot</u>																			
SAMPLING TEAM: <u>Leif Boman/Victoria Schwartz</u>										SIGNATURE: <u>[Signature]</u>					DATE: <u>6/13/23</u>				

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Buck Lake</u>	County: <u>Seminole</u>	Date: <u>6/13/23</u>
Analyst: <u>Leif Boman/Victoria Schwartz</u>	Signature: <u>[Signature]</u>	STORET: <u>6/13/23</u>
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold= FLEPPC invasive exotic. 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.		Lake units sampled (circle one group): 1, 4, 7, 10 2, 5, 8, 11 3, 6, 9, 12
Collected? (✓) 1 4 7 10		Collected? (✓) 1 4 7 10
SPECIES		SPECIES
Acer rubrum	/	Fraxinus
Alternanthera philoxeroides	/	Fuirena scirpoidea
Amaranthus australis	/	Gordonia lasianthus
Andropogon sp.	/	Habenaria repens
Azolla filiculoides (A. caroliniana)	/	Hibiscus coccineus
Baccharis sp.	/	Hibiscus grandiflorus
Bacopa caroliniana	/	Hydrilla verticillata
Bacopa monnieri	/	Hydrocotyle sp.
Bidens alba	/	Hygrophila polysperma
Bidens laevis	/	Hymenocallis sp.
Bidens mitis	/	*Hypericum fasciculatum
Boehmeria cylindrica	/	*Hypericum hypericoides
Brasenia schreberi	/	*Hypericum myrtifolium
Cabomba caroliniana	/	Ilex cassine
Canna sp.	/	Ipomoea aquatica
Centella asiatica	/	Ipomoea sagittata
Cephalanthus occidentalis	/	Itea virginica
Ceratophyllum demersum	/	Juncus effusus
Chara sp.	/	*Juncus marginatus
Cicuta maculata	/	*Juncus megacephalus
Cinnamomum camphora	/	Juncus repens
Cladium jamaicense	/	*Juncus scirpoides
Colocasia esculenta	/	Lachnanthes caroliniana
*Commelina	/	Leersia hexandra
Crinum americanum	/	Landoltia punctata (Spirodela punctata)
Cyperus articulatus	/	Lemna sp.
Cyperus blepharoleptos (Scirpus cubensis)	/	Leucothoe racemosa (Eubotrys racemosa)
Cyperus haspan	/	Limnobia spongia
*Cyperus involucratus	/	Limnophila sessiliflora
*Cyperus lecontei	/	Liquidambar styraciflua
*Cyperus odoratus	/	*Ludwigia arcuata
*Cyperus polystachyos	/	*Ludwigia grandiflora
*Cyperus surinamensis	/	*Ludwigia hexapetala
Cyrtia racemiflora	/	*Ludwigia leptocarpa
Decodon verticillatus	/	Ludwigia (native)
Diodia virginiana	/	*Ludwigia octovalvis
*Echinochloa crus-galli	/	*Ludwigia peruviana
*Echinochloa muricata	/	*Ludwigia repens
Echinochloa walteri	/	Ludwigia suffruticosa
Eclipta prostrata	/	Luziola fluitans (Hydrochloa carolinensis)
Eichhornia crassipes	/	Magnolia virginiana
*Eleocharis	/	Mayaca fluviatilis
Eleocharis cellulosa	/	Melaleuca quinquenervia
*Eleocharis elongata	/	Micranthemum glomeratum
Eleocharis equisetoides	/	Micranthemum umbrosum
Eleocharis interstincta	/	Mikania scandens
Eleocharis vivipara (submersed)	/	Mimosa pigra
*Eriocaulon compressum	/	Myrica cerifera
*Eriocaulon decangulare	/	
Eupatorium capillifolium	/	

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Buck Lake</u>					Date: <u>6/13/23</u>						
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					
Nitella spp.						Scirpus cyperinus					
Nuphar sp.						*Sesbania					
Nymphaea mexicana						Solidago sp.					
Nymphaea odorata						Sparganium americanum					
Nymphoides aquatica						Spartina bakeri					
Nyssa sylvatica var. biflora						Spirodela polyrhiza					
Orontium aquaticum						Taxodium sp.					
Osmunda cinnamomea						Thalia geniculata					
Osmunda regalis						Thelypteris interrupta					
Panicum hemitomon						Thelypteris palustris					
Panicum repens						Triadenum virginicum					
Paspalidium geminatum						Typha sp.					
*Paspalum repens						Urochloa mutica (Brachiaria mutica)					
Paspalum urvillei						*Utricularia gibba (U. biflora)					
Peltandra sp.						*Utricularia foliosa					
Persea sp.						*Utricularia inflata					
*Persicaria glabra (densiflora)						*Utricularia purpurea					
Persicaria hirsuta						*Utricularia radiata					
*Persicaria hydropiperoides						*Utricularia resupinata					
*Persicaria punctata						Vallisneria americana					
*Persicaria						Vitis sp.					
Pennisetum purpureum						*Websteria confervoides					
Phragmites australis						Wedelia trilobata (Sphagneticola trilobata)					
Pinus elliotii						Wolffiella spp.					
Pistia stratiotes						Woodwardia virginica					
Pluchea sp.						Xyris sp.					
Pontederia cordata						Zizania aquatica					
*Potamogeton diversifolius						Zizaniopsis milacea					
*Potamogeton illinoensis											
*Potamogeton pusillus											
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata						Fungus Rhynchospora microcephala					
*Rhexia						Cyperus					
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

LVI Map for BUCK LAKE, WBID 2991B

