

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	Lake Peanut @ Center				Sample Date:	8/31/2022	
WIN / Field ID:	G1CE0124	ORG ID:	21FLCEN	ENR:	-		
County:	Lake	WBID:	2808X	LAKE	Latitude:	28.92822	
Receiving Body of Water:	-				Longitude:	-81.64543	
					RQ-	2022-07-25-15	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Leif Boman	x		x		
Katie March		x		x	x

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot#		1741330 8	Filter Lot# 2090604
Secchi Equipment ID:		Light	
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:	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 (PPT)
EST	1200	7.3	0.3	6.37	86.7	31.6	6.69	2.8	131.9	0.06
	1204		2	6.49	87.2	30.9	6.64		131.3	0.06
	1208		6.8	0.56	6.5	22.1	6.34		187.5	0.09

Biological Samples Collected:

LVI

SBIO Visit ID: 85661

HA ID:

RPS ID:

Macrophyte ID: 12286

LIMS ID : 2353690

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
	Type	Lot#	Expiration Date	pH Check			
Microbiology	E. coli			ICE			
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			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		Ice			
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, clear						
Comments on COC:							
Relinquish Date:	08/31/2022	Signature:					

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

WIN Import ID: 36551

Enter Field Parameters, Verify Station ID in LIMS DMT: KWM 10/14/22

(Initials/Date)

QC Station ID, Field Parameters in LIMS DMT: VLS 10/17/22

(Initials/Date)

Save Field Sheets on Network:

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Lake STORET #: GICE0124 LONGITUDE: _____
 DATE: 8/31/22 TIME: _____ SAMPLING AGENCY: _____
 SITE NAME: Peanut Lake WBID: _____
 FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: _____

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>45</u>		<u>5</u>	<u>45</u>	<u>5</u>						Land Use Source & Year: _____		
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>16</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>16</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>16</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 ☒ 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: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: _____ Mid-Depth: _____ Bottom: _____						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: _____						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 ☒ ☐ ☐ ☐					
Weather Conditions: _____						Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic					
SAMPLING TEAM: <u>Leif Boman, Katie March</u>						DATE: <u>8/31/22</u>					

Lots of orange groves but good buffer zone. Buffer not all native (lantana) but mostly.

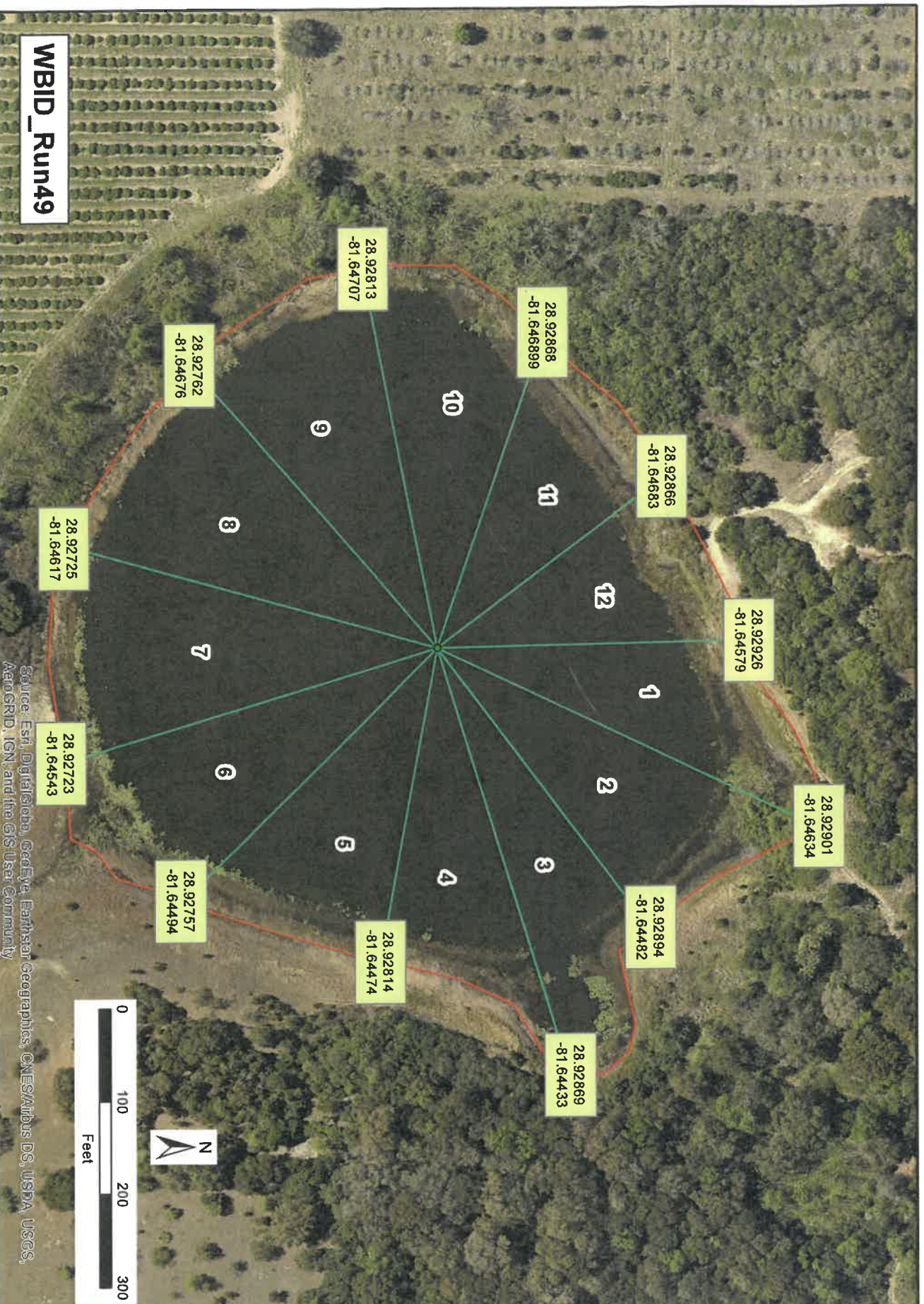
DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Peanut Lake</u>		County: _____		Date: <u>8/31/22</u>							
Analyst: <u>Leif Boman, Katie March</u>		Signature: <u>KMarch</u>		STORET: _____							
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 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 <u>sp</u>					
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	/	/	/	/	X
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					X	Limnophila sessiliflora					
*Cyperus polystachyos						Liquidambar styraciflua					
*Cyperus odoratus						*Ludwigia arcuata <u>erecta</u>	/	/	/	/	X
*Cyperus surinamensis						*Ludwigia grandiflora					
Cyrilla racemiflora						*Ludwigia hexapetala					
Decodon verticillatus						*Ludwigia leptocarpa	/	/	/	/	
Diodia virginiana						Ludwigia (native) <u>suffruticosa</u>	/	/	/	/	
*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 viviparous	/	/	/	/		Mikania scandens	/	/	/	/	
*Eriocaulon compressum						Mimosa pigra					
*Eriocaulon decangulare						Myrica cerifera					
Eupatorium capillifolium											
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:				Date:			
SPECIES			Collected? (✓)	SPECIES			Collected? (✓)
Myriophyllum aquaticum				<i>Salix caroliniana</i>	/	/	/
* <i>Myriophyllum heterophyllum</i>				Salvinia minima			
* <i>Myriophyllum laxum</i>				<i>Sambucus canadensis</i>			
* <i>Myriophyllum pinnatum</i>				Sapium sebiferum			
Myriophyllum spicatum				<i>Saururus cernuus</i>			
* <i>Najas filifolia</i>				Schinus terebinthifolius			/
* <i>Najas guadalupensis</i>				* <i>Schoenoplectus californicus</i>			
* <i>Najas minor</i>				* <i>Schoenoplectus pungens</i>			
<i>Nelumbo lutea</i>				* <i>Schoenoplectus tabernaemontani</i> (<i>Scirpus validus</i>)			
<i>Nitella</i> spp.	/			<i>Scirpus cubensis</i> (<i>Oxycaryon cubense</i>)			
<i>Nuphar</i> sp.	/			<i>Scirpus cyperinus</i>			
<i>Nymphaea mexicana</i>				* <i>Sesbania</i>			
<i>Nymphaea odorata</i>	/	/	/	<i>Solidago</i> sp.			
<i>Nymphoides aquatica</i>				<i>Sparganium americanum</i>			
<i>Nyssa sylvatica</i> var. <i>biflora</i>				<i>Spartina bakeri</i>			
<i>Orontium aquaticum</i>				<i>Spirodela polyrrhiza</i>			
<i>Osmunda cinnamomea</i>				<i>Taxodium</i> sp.			
<i>Osmunda regalis</i>				<i>Thalia geniculata</i>			
<i>Panicum hemitomon</i>	/	/	/	<i>Thelypteris interrupta</i>			
Panicum repens	/	/	/	<i>Thelypteris palustris</i>			
<i>Paspalidium geminatum</i>				<i>Triadenum virginicum</i>			
* <i>Paspalum repens</i>				<i>Typha</i> sp.			
<i>Paspalum urvillei</i>				Urochloa mutica (<i>Brachiaria mutica</i>)			
<i>Peltandra</i> sp.				* <i>Utricularia foliosa</i>			/
<i>Persea</i> sp.			/	* <i>Utricularia gibba</i> (<i>U. biflora</i>)			/
Pennisetum purpureum				* <i>Utricularia inflata</i>			
<i>Phragmites australis</i>				* <i>Utricularia purpurea</i>			
<i>Pinus elliotii</i>			/	* <i>Utricularia radiata</i>			
Pistia stratioides				* <i>Utricularia resupinata</i>			
<i>Pluchea</i> sp.			/	<i>Vallisneria americana</i>			
* <i>Polygonum glabrum</i> (<i>densiflorum</i>)				<i>Vigna luteola</i>			
<i>Polygonum hirsutum</i>				<i>Vitis</i> sp.			
* <i>Polygonum hydropiperoides</i>				* <i>Websteria confervoides</i>			
* <i>Polygonum punctatum</i>	/		X	Wedelia trilobata (<i>Sphagneticola trilobata</i>)			
* <i>Polygonum</i>				<i>Wolffiella</i> spp.			
<i>Pontederia cordata</i>				<i>Woodwardia virginica</i>			
* <i>Potamogeton diversifolius</i>				<i>Xyris</i> sp.		/	/
* <i>Potamogeton illinoensis</i>				<i>Zizania aquatica</i>			
* <i>Potamogeton pusillus</i>				<i>Zizaniopsis milacea</i>			
* <i>Potamogeton pectinatus</i> (<i>Stuckenia pectinatus</i>)				<i>Rhynchospora microcephala</i>	/	/	/
<i>Proserpinaca pectinata</i>				<i>Rhynchospora</i>	/	/	/
* <i>Rhexia</i> (VASE)	/	/	/	<i>Cyperus profler</i>	/	/	X
* <i>Rhynchospora corniculata</i>	/	/	/	<i>Sagittaria</i> sp.	/	/	/
* <i>Rhynchospora inundata</i>	/	/	/	<i>Solidago</i> sp. <i>sempervirens</i>	/	/	/
<i>Rhynchospora nitens</i>	/	/	/	<i>Scleria reticularis</i>	/	/	/
<i>Ricciocarpus natans</i>	/	/	/	<i>Mitreola</i> sp.	/	/	/
<i>Sabal palmetto</i>	/	/	/				
<i>Sacciolepis striata</i>	/	/	/				
* <i>Sagittaria filiformis</i>							
* <i>Sagittaria graminea</i>							
* <i>Sagittaria isoetiformis</i>							
<i>Sagittaria lancifolia</i>							
<i>Sagittaria latifolia</i>							

LVI Map for Peanut Lake, WBID 2808X



WBID_Run49