

Field ID/WIN

G4SW0019

Site Name:

Tank Lake

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Tank Lake

Signature: *Ben [unclear]*

County: Hernando

Date: 06/28/2021

Lake units sampled (circle one group):

1, 4, 7, 10 2, 5, 8,

3, 6, 9, 12

Plants in bold = *Phragmites*

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 (A-F)	6	3	9	12	Collected? (✓)	SPECIES (G-L)	6	3	9	12	Collected? (✓)
Acer rubrum	✓	✓	✓	✓		Gordonia lasianthus	✓	✓	✓	✓	
Alternanthera philoxeroides	✓	✓	✓	✓		Habenaria repens	✓	✓	✓	✓	
Andropogon sp.	✓	✓	✓	✓		Hymenachne amplexicaulis	✓	✓	✓	✓	
Azolla filiculoides (A. caroliniana)	✓	✓	✓	✓		Hydrilla verticillata	✓	✓	✓	✓	
Baccharis sp.	✓	✓	✓	✓		Hydrocotyle sp.	✓	✓	✓	✓	
Bacopa caroliniana	✓	✓	✓	✓		Hygrophila polysperma	✓	✓	✓	✓	
Bacopa monnieri	✓	✓	✓	✓		*Hypericum fasciculatum	✓	✓	✓	✓	
Bidens laevis	✓	✓	✓	✓		*Hypericum hypericoides	✓	✓	✓	✓	
Bidens mitis	✓	✓	✓	✓		*Hypericum myrtifolium	✓	✓	✓	✓	
Blechnum serrulatum	✓	✓	✓	✓		Ilex cassine	✓	✓	✓	✓	
Boehmeria cylindrica	✓	✓	✓	✓		Ipomoea aquatica	✓	✓	✓	✓	
Brasenia schreberi	✓	✓	✓	✓		Ipomoea sagittata	✓	✓	✓	✓	
Cabomba caroliniana	✓	✓	✓	✓		Itea virginica	✓	✓	✓	✓	
Casuarina equisetifolia	D	C	C	D		Juncus effusus	✓	✓	✓	✓	
Centella asiatica	✓	✓	✓	✓		*Juncus marginatus	✓	✓	✓	✓	
Cephalanthus occidentalis	✓	✓	✓	✓		*Juncus megacephalus	✓	✓	✓	✓	
Ceratophyllum demersum	✓	✓	✓	✓		Juncus repens	✓	✓	✓	✓	
Chara sp.	✓	✓	✓	✓		*Juncus scirpoides	✓	✓	✓	✓	
Cladium jamaicense	✓	✓	✓	✓		Lachnanthes caroliniana	✓	✓	✓	✓	
Cliftonia monophylla	✓	✓	✓	✓		Leersia hexandra	✓	✓	✓	✓	
Colocasia esculenta	✓	✓	✓	✓		Landoltia punctata (Spirodela punctata)	✓	✓	✓	✓	
*Commelina	✓	✓	✓	✓		Lemna sp.	✓	✓	✓	✓	
Crinum americanum	✓	✓	✓	✓		Leucothoe racemosa (Eubotrys racemosa)	✓	✓	✓	✓	
* Cyperus alternifolius (C. involucratus)	✓	✓	✓	✓		Limnium spongia	✓	✓	✓	✓	
Cyperus articulatus	✓	✓	✓	✓		Limnophila sessiliflora	✓	✓	✓	✓	
Cyperus haspan	✓	✓	✓	✓		Liquidambar styraciflua	✓	✓	✓	✓	
*Cyperus lecontei	✓	✓	✓	✓		*Ludwigia arcuata	✓	✓	✓	✓	
*Cyperus polystachyos	✓	✓	✓	✓		*Ludwigia leptocarpa	✓	✓	✓	✓	
*Cyperus odoratus	✓	✓	✓	✓		*Ludwigia linearis	✓	✓	✓	✓	
*Cyperus surinamensis	✓	✓	✓	✓		*Ludwigia octovalvis	✓	✓	✓	✓	
Cyrtilla racemiflora	✓	✓	✓	✓		* Ludwigia peruviana	✓	✓	✓	✓	
Decodon verticillatus	✓	✓	✓	✓		*Ludwigia repens	✓	✓	✓	✓	
Diodia virginiana	✓	✓	✓	✓		*Ludwigia	✓	✓	✓	✓	
*Echinochloa crus-galli	✓	✓	✓	✓		Luziola fluitans (Hydrochloa carolinensis)	✓	✓	✓	✓	
*Echinochloa muricatum	✓	✓	✓	✓		Lyonia lucida	✓	✓	✓	✓	
Echinochloa walteri	✓	✓	✓	✓							
Eclipta prostrata (E. alba)	✓	✓	✓	✓							
Egeria densa	✓	✓	✓	✓							
Eichhornia crassipes	✓	✓	✓	✓							
*Eleocharis baldwinii	✓	✓	✓	✓							
*Eleocharis	✓	✓	✓	✓							
Eleocharis cellulosa	✓	✓	✓	✓							
Eleocharis equisetoides	✓	✓	✓	✓							
Eleocharis interstincta	✓	✓	✓	✓							
*Eriocaulon compressum	✓	✓	✓	✓							
*Eriocaulon decangulare	✓	✓	✓	✓							
Eupatorium capillifolium	✓	✓	✓	✓							
*Fuirena	✓	✓	✓	✓							
Fuirena scirpoidea	✓	✓	✓	✓							



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SPECIES (M-P)	6	3	9	12	Collected? (✓)	SPECIES (R-Z)	6	3	9	12	Collected? (✓)
Magnolia virginiana						*Rhexia					
Mayaca fluviatilis						*Rhynchospora corniculata					
Melaleuca quinquenervia						*Rhynchospora inundata					
Micranthemum glomeratum						Rhynchospora tracyi					
Micranthemum umbrosum						Ricciocarpus natans					
Mikania scandens						Sabal palmetto					✓
Mimosa pigra						Sacciolepis striata	✓				
Myrica cerifera						*Sagittaria filiformis					
Myriophyllum aquaticum						*Sagittaria graminea					
*Myriophyllum heterophyllum						*Sagittaria isoetiformis					
*Myriophyllum laxum						Sagittaria lancifolia	✓	✓	✓	✓	
*Myriophyllum pinnatum						Sagittaria latifolia			✓	✓	
Myriophyllum spicatum						Salix caroliniana	✓	✓	✓	✓	
*Najas filifolia						Salvinia minima	✓	✓	✓	✓	
*Najas guadalupensis						Sambucus canadensis					
*Najas minor						Sapium sebiferum					
Nelumbo lutea				✓		Saururus cernuus	✓				
Nitella spp.						Schinus terebinthifolius					
Nuphar sp.	✓	✓	✓	✓		*Schoenoplectus californicus (Cali bulrush)					
Nymphaea odorata			✓	✓		*Schoenoplectus pungens (three square)					
Nymphoides aquatica			✓	✓		*Schoenoplectus tabernaemontani (softstem)					
Nyssa sylvatica var. biflora	✓		✓	✓		Scirpus cubensis (Oxycaryon cubense)	✓	✓	✓	✓	
Orontium aquaticum						Scirpus cyperinus					
Osmunda cinnamomea						*Sesbania					
Osmunda regalis	✓					Solidago sp.					
Panicum hemitomon						Sparganium americanum					
Panicum repens						Spartina bakeri					
Paspalidium geminatum						Sphagneticola trilobata (Wedelia)					
*Paspalum repens						Spirodela polyrhiza					
Paspalum urvillei						Taxodium sp.					
Peltandra sp.						Thalia geniculata					
Persea sp.	✓					Thelypteris palustris					
Pennisetum purpureum						Triadenum virginicum	✓				
Phragmites australis						Typha sp.	✓	✓			
Pinus elliotii	✓					Urochloa mutica (Brachiaria mutica)					
Pistia stratioides						*Utricularia gibba (U. biflora)					
Pluchea sp.						*Utricularia floridana					
*Polygonum glabrum (densiflorum)						*Utricularia foliosa					
*Polygonum hydropiperoides						*Utricularia inflata					
*Polygonum punctatum						*Utricularia purpurea					
*Polygonum sp.						*Utricularia comuta					
Pontederia cordata						*Utricularia radiata					
*Potamogeton diversifolius						Vallisneria americana					
*Potamogeton illinoensis						*Websteria confervoides					
*Potamogeton pusillus						Wolffiella spp.					
*Potamogeton pectinatus						Woodwardia virginica	✓	✓	✓	✓	
Proserpinaca pectinata						Xyris sp.					
						Zizania aquatica					
						Zizaniopsis milacea					
											</

34 total

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Site Name:

Tank Lake

COUNTY: Hernando

LAKE SIZE: Medium

TIME: 1300

SAMPLING AGENCY: FLDEP SWROC

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)
60				20	10		
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	
13		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
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)	
16		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
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	
18		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:				Water Odors:			
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH<2 ☐ No				☐ Sewage ☐ Petroleum ☐ Other			
Color Sample Taken? ☒ Yes ☐ No Lot # Exp. Date:				Water Surface Oils:			
Alkalinity Sample Taken? ☒ Yes ☐ No				☐ Sheen/Slick ☐ Glob ☐ Other			
Water Level ☐ Low ☒ Normal ☐ High				Clarity:			
Meter				Color:			
Readings:				☐ Opaque ☐ Turbid ☐ Tannic ☒ Clear			
Top: 0.3 31.0 7.40 9.06 12.1 49.6 002				☐ Slightly Turbid			
Mid-Depth:				SECCHI (M) 1.0			
Bottom:				Total Station Depth (M) 2.2			
Meter ID: SWD				VOB			
Sediment Type: (may check more than one)				Sediment Odors:			
☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated				☒ Normal ☐ Other (Specify):			
☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify):				☐ Anaerobic			
Biological Communities:				Abundance:			
LVI Conducted? ☒ Yes ☐ No				Absent Rare Common Abundant			
Phytoplankton Sample Taken? ☐ Yes ☒ No				Periphyton ☐ ☐ ☐ ☒			
Sample Preserved? ☐ Yes ☐ No				Nuisance Plants ☐ ☐ ☐ ☒			
Lot #: Exp Date:				Submersed Plants ☐ ☐ ☐ ☒			
Algal Bloom/Algal ID Sample Taken? Yes ☐ No ☒				Exotic Apple Snails ☐ ☒ ☐ ☐			
Active Vegetation Mgmt? ☐ Yes ☐ No ☒ Don't Know				Additional Notes:			
Weather Conditions :							
SAMPLING TEAM: Ben Paswater, Kevin Grace				SIGNATURE: Ben Paswater		DATE: 6/28/21	