FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter Passed End of Day CCV: (Yes) / No

WIN Station Name:	PLATT LAKE CENTER					**Sample Date:**	5/3/2023
WIN / Field ID:	G1SW0083	**ORG ID:**	21FLTPA	**ENR:**	-	**Latitude:**	28.0945
County:	HILLSBOROUGH	**WBID:**	1516C	LAKE	3F	**Longitude:**	-82.47881
Receiving Body of Water:	-					**RQ-**	2023-04-24-13

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater		x		x	x
Sarah Meyer	x		x		

Sampling Equipment					
x	Sample Container			Carboy	
	Dipper			Van Dorn	
	Syringe			Pole	
Syringe Lot#	*1145497*		**Filter Lot#**	*17232873*	
Secchi Equipment ID:	*Secchi #3*				

Collection Method			
	Wading		Canoe/Kayak
	From Shore	x	Electric Motor
			Gasoline Motor
Depth Measured With	*Sonar*		

Water Level:	*Normal*
Flow:	*NA*
Matrix:	*Fresh*
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	*Yes*
Meter ID:	*Leia*
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 (PPTh)
EST	1130	3.1	0.3	8.03	98.7	25.8	7.41	1.3	198	0.09

Biological Samples Collected: None

SBIO Visit ID: 86529 **HA ID:** 18279 **RPS ID:** **Macrophyte ID:** 12426 **LIMS Sample ID Entered Into The Macrophyte Module:**

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		Syring Lot#:1145497; Filter Lot#:17232873		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	*SA3013020*	*01/25/24*	*H2SO4 pH<2*
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/23	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates								
Organics (GC)				Ice				
	W-PSNP-TQ	W-TR-SQ-R						
Molecular								
Periphyton								
Phytoplankton								
BOD								
DOC								
					SyringLot#		FilterLot#	
Other(s)								

*2.0 ml of H2SO4 Used Unless Noted Otherwise
**2.0 ml of HNO3 Used Unless Noted Otherwise

Field Comments:	Sunny with wind. Too windy to take mid and bottom readings, sonde “dragging” with water flow, wouldn't sink below 1m
Comments on COC:	
Relinquish Date:	05/03/2023 **Signature:** Sarah Meyer

LIMS EVENT ID: SW-DIST-2023-05-04-01 **WIN Import ID:** 40966

Enter Field Parameters, Verify Station ID In LIMS DMT: DM 5/5/2023 (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: KT 05/18/2023 (Initials/Date)

Save Field Sheets on Network: MM 7/11/2023 (Initials/Date)

Migrate Data to WIN: MM 7/11/2023 (Initials/Date)

Field ID/WIN G1SW0083

Site Name: **Platt Lake @ Center**

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

COUNTY: Hillsborough

LAKE SIZE: mid

WBID:

MACROPHYTE ID:

WATERSHED / LAKESIDE FEATURES

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

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
25		10		65			

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)

LDI:

Land Use Source & Year:

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

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

Artificially Impounded ☐ Yes ☑ No

STORMWATER INPUTS 13	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				
	20	19	18	17	16	15	14	(13)	12	11	10	9	8	7	6	5	4	3	2	1
LAKESIDE ALTERATIONS 15	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)				
	20	19	18	17	16	(15)	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUFFER ZONE 14	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				
	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 _____

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	25.8	7.41	8.03	98.7	198	0.09
Mid-Depth:							
Bottom :							

Meter ID: Leica

Clarity: ☑ Clear ☐ Opaque ☐ Turbid ☑ Slightly Turbid

Color: ☑ Clear ☑ Tannic ☐ Green

SECCHI (M) 1.3

VOB ☐

Total Station Depth (M) 3.1

Sediment Type: (may check more than one)

☑ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Sand/Silt ☐ Organic smooth (muck)

Sample Taken? ☐ Yes ☑ No

☑ Vegetated ☐ Other (Specify):_____

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:

Visit: 86529

Weather Conditions : Sunny ~85°

SAMPLING TEAM: Ben Pasvater Sarah Meyer **SIGNATURE:** [signature] **DATE:** 5/3/2023

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: SEE STICKER UPPER RIGHT	FIELD ID / NAME: PUT STICKER A	LAKE NAME: See label		ECO-REGION:
	LAKE SIZE: mid	SAMPLING LOCATION/DESCRIPTION:		COUNTY: Hillsborough
PARAMETER				
HYDROLOGY	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☑	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	Impounded, hydrology of system artificially controlled ☐
Color	Very clear, uncolored water (benthic sampling appropriate) ☑	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☐

	Optimal					Suboptimal					Marginal					Poor				
Secchi 11	Secchi >3 m				Secchi(m)	3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	Or VOB	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Vegetation Quality 12	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa					Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants					Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats					Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Stormwater Inputs 13	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				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Bottom Substrate Quality 18	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present					Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present					Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom					Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Lakeside Adverse Human Alternations 15	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)					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)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Upland Buffer Zone 14	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				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Adverse Watershed Land Use 15	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial																			
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

TOTAL SCORE	98	COMMENTS:

ANALYSIS DATE:	5/3/2023	ANALYST:	Ben Paschwater, Sarah Meyer	SIGNATURE:	

Field ID/WIN: G1SW0083

Site Name: **Platt Lake @ Center**

Field ID/WIN G1SW0083

Site Name: **Platt Lake @ Center**

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody:

County: Hillsborough

Signature: Ben Painter

Date: 05/03/2023

required. *Genera that may require lab verification*

Lake units sampled (circle one group):

1, 4, 7, 10 — 2, 5, 8, 11 — 3, 6, 9, 12

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.

SPECIES (A-F)	2	5	8	11	Collected? (√)
Acer rubrum	✓	✓	✓		
Alternanthera philoxeroides	✓				
Andropogon sp.					
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana					
Bacopa monnieri					
Bidens laevis					
Bidens mitis					
Blechnum serrulatum					
Boehmeria cylindrica					
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisitifolia					
Centella asiatica					
Cephalanthus occidentalis		✓			
Ceratophyllum demersum		✓	✓		
Chara sp.					
Cladium jamaicense	✓				
Cliftonia monophylla			-		
Colocasia esculenta		✓	✓		
*Commelina					
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus	✓				
*Cyperus surinamensis	✓	✓			
Cyrilla racemiflora					
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
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	✓	✓		✓	

SPECIES (G-L)	2	5	8	11	Collected? (√)
Gordonia lasianthus					
Habenaria repens		✓			
Hymenachne amplexicaulis					
Hydrilla verticillata		✓		✓	
Hydrocotyle sp.	✓	✓	✓	✓	
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus	✓	✓			✓
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spirodela punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidamber styraciflua		✓	✓		
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis					
***Ludwigia peruviana**	✓	✓	✓		
*Ludwigia repens					
*Ludwigia	✓				
Luziola fluitans (Hydrochloa carolinensis)					
Lyonia lucida					
~~P.fittrum~~ Ptilimnium capillaceum		✓			
Hypericum cistifolium	✓				✓

secchi 1.3

Field ID/WIN G1SW0083

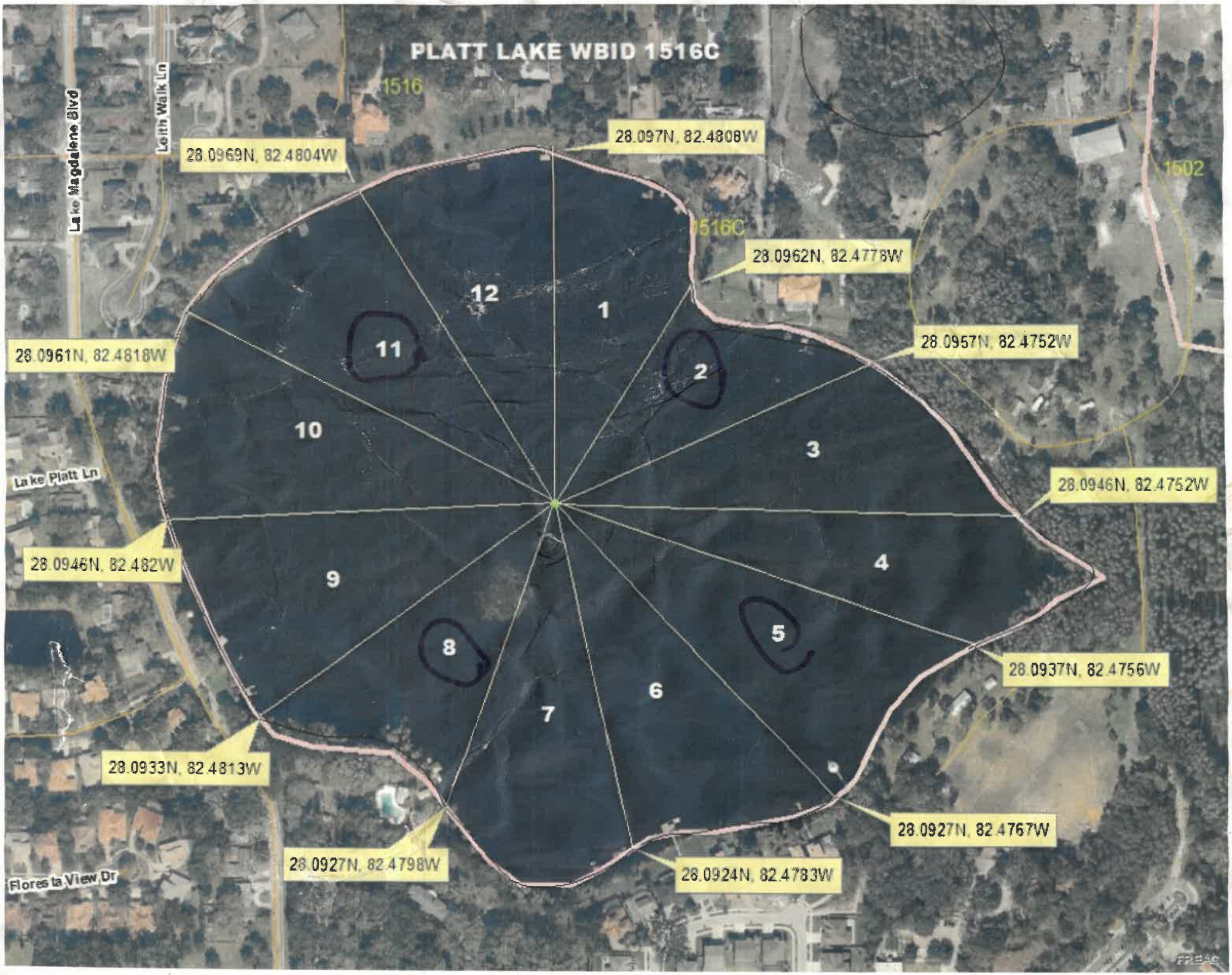
Site Name: **Platt Lake @ Center**

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Date: 05/03/2023

SPECIES (M-P)	2	5	8	11	Collected? (√)
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia	✓	✓	✓		
Micranthemum glomeratum	✓	✓		✓	
Micranthemum umbrosum					
Mikania scandens	✓	✓			
Mimosa pigra					
Myrica cerifera		✓			
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea					
Nitella spp.					
Nuphar sp.	✓	✓	✓	✓	
Nymphaea odorata	✓	✓	✓	✓	
Nymphoides aquatica					
Nyssa sylvatica var. biflora			✓		
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis		✓	✓		
Panicum hemitomon					
Panicum repens		✓	✓	✓	
Paspalidium geminatum		✓			
*Paspalum repens					
Paspalum urvillei					
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis					
Pinus elliottii		✓			
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)	✓	✓			
*Polygonum hydropiperoides					
*Polygonum punctatum				✓	
*Polygonum sp.				✓	
Pontederia cordata	✓	✓	✓	✓	
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus					
Proserpinaca pectinata					

SPECIES (R-Z)	2	5	8	11	Collected? (√)
*Rhexia		✓			
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynochospora tracyi					
Ricciocarpus natans					
Sabal palmetto			✓		
Sacciolepis striata		✓			
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia		✓	✓	✓	
Sagittaria latifolia		✓			
Salix caroliniana		✓	✓		
Salvinia minima					
Sambucus canadensis			✓		
Sapium sebiferum					
Saururus cernuus					
Schinus terebinthifolius			✓		
*Schoenoplectus californicus (Cali bulrush)					
*Schoenoplectus pungens (three square)					
*Schoenoplectus tabernaemontani (softsteam)					
Scirpus cubensis (Oxycaryon cubense)		✓	✓	✓	
Scirpus cyperinus					
*Sesbania					
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Sphagneticola trilobata (Wedelia)			✓		
Spirodela polyrhiza					
Taxodium sp.	✓	✓	✓	✓	
Thalia geniculata					
Thelypteris palustris					
Triadenum virginicum					
Typha sp.	✓	✓	✓		
Urochloa mutica (Brachiaria mutica)					
*Utricularia gibba (U. biflora)					
*Utricularia floridana					
*Utricularia foliosa					
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia cornuta					
*Utricularia radiata					
Vallisneria americana	C	D	C	D	
*Websteria confervoides					
Wolffiella spp.					
Woodwardia virginica					
Xyris sp.					
Zizania aquatica					
Zizaniopsis milacea					


PLATT LAKE WBID 1516C
1516
1502
1516C
Lake Magdalene Blvd
Loith Walk Ln
Lake Platt Ln
Floresta View Dr
28.0969N, 82.4804W
28.097N, 82.4808W
28.0962N, 82.4778W
28.0957N, 82.4752W
28.0946N, 82.4752W
28.0937N, 82.4756W
28.0927N, 82.4767W
28.0924N, 82.4783W
28.0927N, 82.4798W
28.0933N, 82.4813W
28.0946N, 82.482W
28.0961N, 82.4818W
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