



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes / ☐ No

WIN Station Name: Harbor Lake @ Center

Date: 5/3/2022

WIN/Field ID: G1SW0126

WBID: 1603E

ENR: -

Latitude: 27.99741

County: PINELLAS

Org ID: 21FLTPA

Longitude: -82.74769

Receiving Body of Water: -

RQ- 2022-05-09-40

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Ben Paswater	x		x		x
☒	Jacob Yodzis		x		X	
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Sonar	
Secchi Equipment ID: Secchi #3	
Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SWD					
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:											
SBIO ID Numbers: Visit ID: 84212 LVI: 12142											
Notes:											

Duplicate Sample

Time Zone: EST	Time:	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDMMYYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: 2022-05-04-02

WIN Import ID: 34595

Enter Field Parameters, Verify Station ID In LIMS DMT: MM 5/12/2022

QC Station ID, Field Parameters In LIMS DMT: KG 5/24/2022

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets NA 08/30/2022
(Initials/Date)

Migrate Data to WIN: NA 08/24/2022
(Initials/Date)

Verify Data In WIN: NA 08/24/2022
(Initials/Date)



RQ-2022-05-09-40
Customer: SW-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Ben Paswater, Jacob Yodzis
Field Report Prepared By: Ben Paswater
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G1SW0126 Location: Harbor Lake @ Center						Comments:				
Matrix: Fresh						(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
5/3/2022	1300 EST	7.83	100.6	28.4	7.71	0.3	4.8 ☒ VOB (S)	4.8	297.4	0.14
	1300	7.98	101.6	27.9	7.73	2.0	Central Lab please use top row for login purposes		297.3	0.14
	1300 EST	10.13	128.6	27.6	8.35	4.3			296.9	0.14
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4*		☐ <2	1	A
		Lot # SA1308030		Exp:		12/1/2022				
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2		
		Lot #		Exp:						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☐ Ice			1	A
		Filter Lot # 17232873				Syringe Lot #		1145497		
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☐ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☐ Ice			1	A
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab				☐ Ice				
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp. 2/4/2023		
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI	☒ WE8321-MS	☒ W-PSNP-TQ	☒ W-CT-CL-R	☒ Ice		MCAA Lot#	10	A
		☒ W-PCL-TQ-R	☒ W-CARB-AA (5 ml of MCAA** Buffer Solution)		128343					
		☒ W-PCB-TQ-R								
Phytoplankton/Periphyton				DTY-QN-C	PKD-QN-C	☐ Ice				
Name: Ben Paswater Jacob Yodzis				Signature:					Date: 05/03/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name:

Harbor Lake @ Center

COUNTY:

Pinellas

LAKE SIZE:

Mid

WBID:

1603 E

MACROPHYTE ID:

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:													
10				90	10			Land Use Source & Year:													
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy										Artificially Impounded ☐ Yes ☒ No											
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy																					
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										
12		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)										
12		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										
9		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: Depth (M) 0.3 Temp. (°C) 28.4 pH (SU) 7.71 D.O. (MG/L) 7.83 D.O. Sat. (%) 100.6 Cond. (UMHO/CM) 297.4 Salinity (PPT) .14 Mid-Depth: 2.0 27.9 7.73 7.98 101.6 297.3 .14 Bottom: 4.3 27.6 8.25 10.13 128.6 296.9 .14										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Meter ID: SWD										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) 4.8 Total Station Depth (M) 4.8 VOB ☒									
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____										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 ☐ ☒ ☐ ☐									
Weather Conditions: Sunny w 90°										Additional Notes: Recently veg sprayed									
SAMPLING TEAM: Ben Paswater, Jacob Yodzis										SIGNATURE: Ben Paswater									
DATE: 5/3/2022																			



Site Name: Harbor Lake @ Center

Date: 5/3/22

Name: Harbor Lake @ Center		Date: 10/1/2014				Collec ted? (✓)	Name: Harbor Lake @ Center		Date: 10/1/2014				Collec ted? (✓)
SPECIES (M-P)							SPECIES (R-Z)						
Magnolia virginiana							*Rhexia						
Mayaca fluviatilis	CD	✓					*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	CD	✓	✓	✓	✓	
*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.	CD	CD	CD	CD	CD	
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 cornuta						
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						
							Thelypteris (most common)	✓		✓	✓		
				</									



Site Name:

Harbor Lake @ Center

Waterbody: ←

County: Pinellas

Signature: *Be. D...*

Date: 5/3/2022

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

SPECIES (A-F)	1	4	7	10	Collected? (✓)	SPECIES (G-L)	1	4	7	10	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						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)						Limnobia 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											

Harbor Lake

