



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Lake Henry @ center

Date: 10/21/2020

WIN/Field ID: G3CE0040

WBID: 1504A

ENR:

Latitude: 28.09159

County: POLK

Org ID: 21FLCEN

Longitude: -81.667966

Receiving Body of Water: Sarasota Bay - Peace - Myakka

RQ- 2020-10-19-69

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Terry Riordan		x		x	x
☒	Victoria Schwartz	x		x		
☐						
☐						

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

Water Level: ☐ Normal ☐ Low ☒ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# CRAW DADDY					
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:											
SBIO ID Numbers: SBIO 81642 MACROPHYTE 11733						LIMS 2204131					
Notes:											

Duplicate Sample

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

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDDMMYYY)
DI Source: N/A		Location: N/A	
DI Type: N/A		Equipment ID: N/A	

LIMS EVENT ID: CEN-DIST-2020-10-22-01

WIN Import ID: 22872

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 11/12/20
(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: TR 11/12/2020
(Initials/Date)

Scan/Save Field Sheets KWM 11/20/20
(Initials/Date)

Migrate Data to WIN: KWM 11/20/20
(Initials/Date)

Verify Data In WIN:
(Initials/Date)



RQ-2020-10-19-69

Customer: WQAP

Project ID: SMP

Collected By: Terry Riordan, Victoria Schwartz

Field Report Prepared By: Terry Riordan

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G3CE0040

Location: Lake Henry @ 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 (PPTH)
10/21/2020	12:40 EST	7.39	91.2	26	6.9	0.3	0.4 ☐ VOB (S)	3.4	152.6	0.07

Central Lab please use top row for login purposes

	12:46 EST	7.27	89.4	25.9	6.77	2.88			152.6	0.07
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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 Lot # SA0038110 Exp: 02/07/21	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # NA9301040 Exp: 10/28/20	☒ Ice ☒ HNO3*	☒ <2	1	A
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 16930280 Syringe Lot # 9149785	☒ Ice		1	A
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			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			
		☐ Ice			

Name:
Terry Riordan
Victoria Schwartz

Signature:

Victoria Schwartz

Date:

10/21/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** 28.09159
COUNTY: Polk **STORET #:** _____ **LONGITUDE:** -81.667966
DATE: 10/21/20 **TIME:** 12:40 **SAMPLING AGENCY:** 21 PLCEN
SITE NAME: Lake Henry **WBID:** 1504A
FIELD ID/NAME: ⑤ Lake Henry G3CE0040 **LAKE SIZE:** 1.26592 **RQ:** 2020-10-19-69
Sq. miles

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> </u>	
<u>50</u>				<u>50</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>8</u>		20 19 18 17 16		15 14 13 12 11		10 9 <u>8</u> 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>8</u>		20 19 18 17 16		15 14 13 12 11		10 9 <u>8</u> 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>8</u>		20 19 18 17 16		15 14 13 12 11		10 9 <u>8</u> 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 # <u>SA0038110</u> Exp. Date: <u>02/07/21</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☐ Normal ☒ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____			
Meter Readings: Top: <u>0.3</u> <u>26.0</u> <u>6.9</u> <u>7.39</u> <u>91.2</u> <u>152.6</u> <u>0.07</u> Mid-Depth: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Bottom: <u>2.88</u> <u>25.9</u> <u>6.77</u> <u>7.27</u> <u>89.4</u> <u>152.6</u> <u>0.07</u> Meter ID: <u>Craw Daddy</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____			
Sediment Type: (may check more than one) <u>N/A</u> ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Clarity: ☐ Clear ☒ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>0.4</u> Total Station Depth (M) <u>3.4</u> VOB ☐			
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot #: <u>N/A</u> Exp Date: <u>N/A</u> Algal Bloom/Algal ID Sample Taken? Yes ☒ No Active Vegetation Mgmt? ☐ Yes ☐ No ☒ Don't Know								Sediment Odors: <u>N/A</u> ☐ Normal ☐ Other (Specify): _____ ☐ Anaerobic			
Abundance: Periphyton ☐ Absent ☒ Rare ☐ Common ☐ Abundant Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐ <u>not observed</u>								Additional Notes: <u>LVI Section 2 showed possible signs of reg. chopping or spraying</u>			
Weather Conditions: <u>Overcast w/ a breeze</u>											
SAMPLING TEAM: <u>Terry Riordan / Victoria Schwartz</u>								SIGNATURE: <u>Terry Riordan</u> <u>V. Schwartz</u>		DATE: <u>10/21/20</u>	

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Henry</u>		County: <u>Polk</u>		Date: <u>10/21/20</u>	
Analyst: <u>Terry Riordan / Victoria Schwartz</u>		Signature: <u>[Signature]</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 <u>2, 5, 8, 11</u> 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	2	5	8	11	Collected? (✓)
Acer rubrum	/	/	/	/	
Alternanthera philoxeroides	/	/	/	/	
Amaranthus australis	/	/	/	/	
Andropogon sp.	/	/	/	/	
Azolla filiculoides (A. caroliniana)	/	/	/	/	
Baccharis sp.	/	/	/	/	
Bacopa caroliniana	/	/	/	/	
Bacopa monnieri	/	/	/	/	
Bidens alba	/	/	/	/	
Bidens laevis	/	/	/	/	
Bidens mitis	/	/	/	/	
Blechnum serrulatum	/	/	/	/	
Boehmeria cylindrica	/	/	/	/	
Brasenia schreberi	/	/	/	/	
Cabomba caroliniana	/	/	/	/	
Canna	/	/	/	/	
Centella asiatica	/	/	/	/	
Cephalanthus occidentalis	/	/	/	/	
Ceratophyllum demersum	/	/	/	/	
Chara sp.	/	/	/	/	
Cinnamomum camphora	/	/	/	/	
Cladium jamaicense	/	/	/	/	
Colocasia esculenta	/	/	/	/	
*Commelina <u>diffusa</u>	/	/	/	/	
Crinum americanum	/	/	/	/	
*Cyperus alternifolius (C. involucratus)	/	/	/	/	
Cyperus articulatus	/	/	/	/	
Cyperus haspan	/	/	/	/	
*Cyperus lecontei	/	/	/	/	
*Cyperus polystachyos	/	/	/	/	
*Cyperus odoratus	/	/	/	/	
*Cyperus surinamensis	/	/	/	/	
Cyrtilla racemiflora	/	/	/	/	
Decodon verticillatus	/	/	/	/	
Diodia virginiana	/	/	/	/	
*Echinochloa crus-galli	/	/	/	/	
*Echinochloa muricatum	/	/	/	/	
Echinochloa walteri	/	/	/	/	
Eclipta prostrata (E. alba)	/	/	/	/	
Eichhornia crassipes	/	/	/	/	
*Eleocharis	/	/	/	/	
Eleocharis cellulosa	/	/	/	/	
*Eleocharis elongata	/	/	/	/	
Eleocharis equisetoides	/	/	/	/	
Eleocharis interstincta	/	/	/	/	
Eleocharis submersed viviparous	/	/	/	/	
*Eriocaulon compressum	/	/	/	/	
*Eriocaulon decangulare	/	/	/	/	
Eupatorium capillifolium	/	/	/	/	
Fraxinus	/	/	/	/	

SPECIES	2	5	8	11	Collected? (✓)
Fuirena scirpoides	/	/	/	/	
Gordonia lasianthus	/	/	/	/	
Habenaria repens	/	/	/	/	
Hibiscus coccineus	/	/	/	/	
Hibiscus grandiflora	/	/	/	/	
Hydrilla verticillata	/	/	/	/	
Hydrocotyle sp.	/	/	/	/	
Hygrophila polysperma	/	/	/	/	
Hymenocallis sp.	/	/	/	/	
*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)	/	/	/	/	
Limnium spongia	/	/	/	/	
Limnophila sessiliflora	/	/	/	/	
Liquidambar styraciflua	/	/	/	/	
*Ludwigia arcuata	/	/	/	/	
*Ludwigia grandiflora	/	/	/	/	
*Ludwigia hexapetala	/	/	/	/	
*Ludwigia leptocarpa	/	/	/	/	
Ludwigia (native)	/	/	/	/	
*Ludwigia octovalvis	/	/	/	/	
*Ludwigia peruviana	/	/	/	/	
*Ludwigia repens	/	/	/	/	
Ludwigia suffruticosa	/	/	/	/	
Luziola fluitans (Hydrochloa carolinensis)	/	/	/	/	
Magnolia virginiana	/	/	/	/	
Mayaca fluviatilis	/	/	/	/	
Melaleuca quinquenervia	/	/	/	/	
Micranthemum glomeratum	/	/	/	/	
Micranthemum umbrosum	/	/	/	/	
Mikania scandens	/	/	/	/	
Mimosa pigra	/	/	/	/	
Myrica cerifera	/	/	/	/	

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Henry</u>					Date: <u>10/21/20</u>						
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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 (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus					
Nymphaea mexicana						*Sesbania <u>herbacea</u>					
Nymphaea odorata						Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri					
Orontium aquaticum						Spirodela polyrrhiza					
Osmunda cinnamomea						Taxodium sp.					
Osmunda regalis						Thalia geniculata					
Panicum hemitomon						Thelypteris interrupta					
Panicum repens						Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia foliosa					
Persea sp.						*Utricularia gibba (U. biflora)					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vigna luteola					
Polygonum hirsutum						Vitis sp.					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum					✓	Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum <u>densiflorum</u>						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						<u>mystery sedge</u>					✓
Proserpinaca pectinata						↳ <u>Cyperus erythrorhizos</u>					
*Rhexia											
*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 , WBID 1504A Lake Henry

