



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes ☐ No

WIN Station Name: Lake Leonore @ Center **Date:** 5/25/2021
WIN/Field ID: G4CE0184 **WBID:** 1619C **ENR:** - **Latitude:** 27.7953
County: POLK **Org ID:** 21FLCEN **Longitude:** -81.51
Receiving Body of Water: Kissimmee River **RQ:** 2021-04-05-15

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Leif Boman		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 82456 MACROPHYTE 11820						LIMS 2250143					
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_DDDMMYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: CEN-DIST-2021-05-26-03 WIN Import ID: 27966
Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 6/18/21 QC Station ID, Field Parameters In LIMS DMT: EB 7/13/21
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets KWM 8/6/21 Migrate Data to WIN: KWM 8/6/21 Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-04-05-15

Customer: WQAP

Project ID: SMP

Collected By: Leif Boman, Victoria Schwartz

Field Report Prepared By: Leif Boman

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4CE0184

Location: Lake Leonore @ 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)
5/25/2021	1222 EST	9.82	124.1	27.5	8.53	0.3	0.5 ☐ VOB (S)	2.8	333.7	0.16
	1224	8.44	103.4	25.4	8.13	2.0	Central Lab please use top row for login purposes		333.6	0.16
	1227 EST	6.75	81.2	24.6	7.52	2.3			333.2	0.16

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 # SA120053 Exp: 10/5/21	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3*	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 17135566 Syringe Lot # 1091364	☒ 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) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C DTM-QN-C PRN-QN-C PKD-QN-BV	☐ Ice			

Name:
Leif Boman
Victoria Schwartz

Signature:

Victoria Schwartz

Date:

5/25/21

*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:** 27.79530
COUNTY: Polk **STORET #:** G4CE0184 **LONGITUDE:** -81.51232
DATE: 5/25/21 **TIME:** 12:22 **SAMPLING AGENCY:** 212CEN
SITE NAME: Lake Leonore @ Center **WBID:** 1619C
FIELD ID/NAME: G4CE0184 **LAKE SIZE:** 0.61 **sq miles** **RQ:** 2021-04-05-15

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)							
<u>25</u>			<u>75</u>											
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>5</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>10</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>11</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 ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>SA120053</u> Exp. Date: <u>10/5/21</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>27.5</u> <u>8.53</u> <u>9.82</u> <u>124.1</u> <u>333.7</u> <u>0.16</u> Mid-Depth: <u>2.0</u> <u>25.4</u> <u>8.13</u> <u>8.44</u> <u>103.4</u> <u>333.6</u> <u>0.16</u> Bottom: <u>2.3</u> <u>24.6</u> <u>7.52</u> <u>6.75</u> <u>81.2</u> <u>333.2</u> <u>0.16</u> Meter ID: <u>Craw Daddy</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Sediment Type: (may check more than one) ☐ 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>0.5</u> Total Station Depth (M) <u>2.8</u> VOB ☐							
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? <u>N/A</u> ☐ Yes ☐ No Lot #: _____ Exp Date: _____ 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: Absent Rare Common Abundant Periphyton ☒ ☐ ☐ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐								Additional Notes: <u>Surrounded by orange groves</u>							
Weather Conditions: <u>Sunny/hot</u>															
SAMPLING TEAM: <u>Leif Boman + Victoria Schwarz</u>												SIGNATURE: <u>Leif Boman</u>		DATE: <u>5/25/21</u>	

WBID: 1619C

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Leonore</u>	County: <u>Polk</u>	Date: <u>5/25/21</u>									
Analyst: <u>Leif Boman + Victoria Schwartz</u>	Signature: <u>Leif Boman</u>	STORET: <u>G4CE0184</u>									
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): <u>1, 4, 7, 10</u> 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					
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.	D	D	C	D		Juncus repens					
Cladium jamaicense	/	/	/	/		*Juncus scirpoides					
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						Limnophila sessiliflora					
*Cyperus polystachyos						Liquidambar styraciflua					
*Cyperus odoratus						*Ludwigia arcuata					
*Cyperus surinamensis						*Ludwigia grandiflora					
Cyrtilla racemiflora						*Ludwigia hexapetala					
Decodon verticillatus						*Ludwigia leptocarpa					
Diodia virginiana						Ludwigia (native)					
*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 viviparus						Mikania scandens					
*Eriocaulon compressum						Mimosa pigra	/	/	/	/	
*Eriocaulon decangulare						Myrica cerifera	/	/	/	/	
Eupatorium capillifolium											
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Leonore</u>		Date: <u>5/25/21</u>	
SPECIES	Collected? (✓)	SPECIES	Collected? (✓)
Myriophyllum aquaticum	1 4 7 10	Salix caroliniana	1 4 7 10
*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.	1 4 7 10	Scirpus cyperinus	
Nymphaea mexicana		*Sesbania	
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	1 4 7 10	Thelypteris palustris	
Paspalidium geminatum		Triadenum virginicum	
*Paspalum repens		Typha sp.	1 4 7 10
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		Wolffiella spp.	
Pontederia cordata		Woodwardia virginica	
*Potamogeton diversifolius		Xyris sp.	
*Potamogeton illinoensis		Zizania aquatica	
*Potamogeton pusillus		Zizaniopsis milacea	
*Potamogeton pectinatus (Stuckenia pectinatus)			
Proserpinaca pectinata			
*Rhexia			
*Rhynchospora corniculata			
*Rhynchospora inundata			
Rhynchospora nitens			
Ricciocarpus natans			
Sabal palmetto			
Sacciolepis striata			
*Sagittaria filiformis			
*Sagittaria graminea			
*Sagittaria isoetiformis			
Sagittaria lancifolia	1 4 7 10		
Sagittaria latifolia			

LVI Map for Lake Leonore, WBID 1619C

1, 4, 7, 10

