



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

DO failed CCV

WIN Station Name: Lake Lindley @ Center of North Lobe **Date:** 7/26/2021
WIN/Field ID: G2CE0220 **WBID:** 2630E **ENR:** - **Latitude:** 29.05
County: VOLUSIA **Org ID:** 21FLCEN **Longitude:** -81.28
Receiving Body of Water: Lower St. Johns **RQ:** 2021-05-10-08

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Elizabeth Bates	x		x		
☒	Katie March		x		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: NO		Flow: NA		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:											
SBIO ID Numbers: SBIO ID: 82948 Macrophyte ID: 11922						LIMS ID: 2265191					
Notes:											

Duplicate Sample

Time Zone: EST	Time:	Field ID:	(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-2021-07-27-03 WIN Import ID: 28669
Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 8/10/21 QC Station ID, Field Parameters In LIMS DMT: EB 8/26/21
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets KWM 9/21/21 Migrate Data to WIN: KWM 9/21/21 Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-05-10-08

Customer: WQAP

Project ID: SMP

Collected By: Elizabeth Bates, Katie March

Field Report Prepared By: Elizabeth Bates

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G2CE0220

Location: Lake Lindley @ Center of North Lobe

Comments: Forgot photos

DO FAILED CCV

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)		
	1123 EST	7.66	102.5	30.7	6.85	0.3	2.3 ☐ VOB (S)	7.8	133.2	0.06		
7/26/2021	1126	7.77	103.6	30.4	6.78	2.0			132.9	0.06		
	1130 EST	0.25	2.9	23	6.11	7.3			189.9	0.09		
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 #	SA1105060		Exp:	4/30/2022						
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 #	17135566									
		Syringe Lot #	1091364									
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 Lot #			☐ 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				☐ Ice						
		☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice						
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI	W-E8321-MS	W-PSNP-TQ	W-CT-CL-R	☐ Ice						
Phytoplankton/Periphyton		W-PCL-TQ-R	W-CARB-AA (5 ml of MCAA** Buffer Solution)			☐ Ice						
				DTY-QN-C	PKD-QN-BV	☐ Ice						
Name: Elizabeth Bates Katie March					Signature:				Date: 07/26/2021			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lindley Lake</u>		County: <u>Volusia</u>		Date: <u>7/26/21</u>	
Analyst: <u>Katie March, Ocala</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. 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		Collected? (✓)		SPECIES	
2 5 8 11		2 5 8 11		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.				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	
Cyrilla 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 viviparous				Mikania scandens	/
Eriocaulon compressum				Mimosa pigra	
Eriocaulon decangulare	/	/	/	Myrica cerifera	/
Eriocaulon capillifolium	/	/	/	<i>Fuirena pumila</i>	/

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Indley</u>				Date: <u>11/26/21</u>					
SPECIES			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					
Nymphaea odorata				Solidago sp.					
Nymphoides aquatica				Sparganium americanum					
Nyssa sylvatica var. biflora				Spartina bakeri					
Orontium aquaticum				Spirodela polyrhiza					
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>punctatum</u>				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									
Sagittaria latifolia									



DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 29.05
 COUNTY: Volusia STORET #: _____ LONGITUDE: -81.28
 DATE: 7/26/21 TIME: 11:23 SAMPLING AGENCY: ZIFLCEN
 SITE NAME: Lake Lindley @ center of North Lobe WBID: 2630E
 FIELD ID/NAME: G2CE0220 LAKE SIZE: 21 acres RQ: 2021-05-10-08

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☒ <u>40</u> Agricultural ☐ Residential ☒ <u>60</u> Commercial ☐ Industrial ☐ Other (Specify) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>1/4.1/6.8</u>	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy				Artificially Impounded ☐ Yes ☒ No	
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy				Land Use Source & Year: <u>2013-2016</u>	
STORMWATER INPUTS <u>8</u>	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6
LAKESIDE ALTERATIONS <u>8</u>	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16		Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 12 11		Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6
BUFFER ZONE <u>8</u>	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6
				< 29% of shoreline with >18m buffer 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>SAIL05060</u> Exp. Date: <u>4/30/22</u> 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: Top: <u>0.3</u> <u>30.7</u> <u>6.85</u> <u>7.46</u> <u>102.5</u> <u>133.2</u> <u>0.06</u> Mid-Depth: <u>2.0</u> <u>30.4</u> <u>6.78</u> <u>7.77</u> <u>103.6</u> <u>132.9</u> <u>0.06</u> Bottom: <u>7.3</u> <u>23.0</u> <u>2.9</u> <u>0.25</u> <u>2.9</u> <u>184.9</u> <u>0.09</u>				Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☐ Tannic ☐ Green			
Meter ID: <u>Drawdaddy 6.11</u>				SECCHI (M) <u>2.3</u> Total Station Depth (M) <u>7.8</u> VOB ☐			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ 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 ☒ ☐ ☐ ☐			
Weather Conditions: <u>Sunny breezy</u>				Additional Notes: <u>WIN ID / Field ID → Lake Lindley @ Center of North Lobe</u>			
SAMPLING TEAM: <u>W. Bates, Katie March</u>				SIGNATURE: <u>W. Bates</u>		DATE: <u>7/26/21</u>	

LVI Map for Lindley Lake, WBID 2630E

