



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Lake Minnie @ Center

Date: 6/21/2021

WIN/Field ID: G2CE0108

WBID: 2962C

ENR: -

Latitude: 28.7542

County: SEMINOLE

Org ID: 21FLCEN

Longitude: -81.29

Receiving Body of Water: Middle St. Johns

RQ- 2021-06-14-37

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 82555				MACROPHYTE 11843			LIMS 2256266		
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_DDDMMYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: CEN-DIST-2021-06-22-01

WIN Import ID: 27976

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 7/2/21

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: EB 7/14/21

(Initials/Date)

Scan/Save Field Sheets KWM 8/6/21

(Initials/Date)

Migrate Data to WIN: KWM 8/6/21

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2021-06-14-37

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:



G2CE0108

Location: Lake Minnie @ 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)
6/21/2021	1312 EST	6.94	92	30.1	7.3	0.3	0.7 ☐ VOB (S)	2.7	255.6	0.12
	1315	0.21	2.7	28.1	6.59	2.0	Central Lab please use top row for login purposes		253	0.12
	1318 EST	0.13	1.7	27.6	6.68	2.2			265.3	0.12

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 # Sa1105060 Exp: 4/30/22	☒ 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-TQ-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:
Elizabeth Bates
Katie March

Signature:

Date:

06/21/21

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Waterbody: <u>Lake Minnie</u>		County: <u>Seminole</u>		Date: <u>6/21/21</u>	
Analyst: <u>Kate Varch, Liz Bates</u>		Signature: <u>[Signature]</u>		STORET: <u>G2CE0108</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): 1, 4, 7, 10 2, 5, 8, 11 <u>3, 6, 9, 12</u>	
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	
3 6 9 12				3 4 9 12	
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.	<u>///</u>
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	<u>///</u>			*Juncus marginatus	
Ceratophyllum demersum				*Juncus megacephalus	
Chara sp.				Juncus repens	
Cinnamomum camphora				*Juncus scirpoides	
Cladium jamaicense	<u>///</u>			Lachnanthes caroliniana	
Colocasia esculenta	<u>///</u>			Leersia hexandra	
*Commelina				Landoltia punctata (Spirodela punctata)	
Crinum americanum				Lemna sp.	
*Cyperus alternifolius (C. involucratus)				Leucothoe racemosa (Eubotrys racemosa)	
Cyperus articulatus				Limnium spongia	
Cyperus haspan				Limnophila sessiliflora	
*Cyperus lecontei				Liquidambar styraciflua	
*Cyperus polystachyos				*Ludwigia arcuata	
*Cyperus odoratus				*Ludwigia grandiflora	
*Cyperus surinamensis				*Ludwigia hexapetala	
Cyrilla racemiflora				*Ludwigia leptocarpa	
Decodon verticillatus				Ludwigia (native)	
Diodia virginiana				*Ludwigia octovalvis	
*Echinochloa crus-galli				*Ludwigia peruviana	
*Echinochloa muricatum				*Ludwigia repens	
Echinochloa walteri				Ludwigia suffruticosa	
Eclipta prostrata (E. alba)	<u>///</u>			Luziola fluitans (Hydrochloa carolinensis)	
Eichhornia crassipes	<u>///</u>			Magnolia virginiana	
*Eleocharis				Mayaca fluviatilis	
Eleocharis cellulosa				Melaleuca quinquenervia	
*Eleocharis elongata				Micranthemum glomeratum	
Eleocharis equisetoides				Micranthemum umbrosum	
Eleocharis interstincta				Mikania scandens	<u>///</u>
Eleocharis submersed viviparous				Mimosa pigra	
*Eriocaulon compressum				Myrica cerifera	<u>///</u>
*Eriocaulon decangulare					
Eupatorium capillifolium					
Fraxinus					

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Monroe</u>				Date: <u>6/21/21</u>							
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	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. <u>? - NO</u>			/		X	*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)						<u>Toxicodendron radicans</u>	/				
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											



G2CE0108

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.7542
COUNTY: Seminole STORET #: _____ LONGITUDE: -81.29
DATE: 6/21/22 TIME: 13:09 SAMPLING AGENCY: 21ACEN
SITE NAME: Grace 0108 WBID: 2162C
FIELD ID/NAME: Lake Minnie @ Center LAKE SIZE: _____ RQ: 2020
2021-06-14-37

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : <u>major road</u> Forest/Natural <u>10</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>80</u> Commercial _____ Industrial _____ Other (Specify) <u>10</u>								LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____ 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 <u>14</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		Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1	
LAKESIDE ALTERATIONS <u>16</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		Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1	
BUFFER ZONE <u>7</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 # _____ Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____					
Meter <u>13:09</u> Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Readings: Top: <u>0.3</u> <u>30.1</u> <u>7.30</u> <u>6.94</u> <u>92.0</u> <u>255.6</u> <u>0.12</u> Mid-Depth: <u>2.0</u> <u>28.1</u> <u>6.59</u> <u>0.21</u> <u>2.7</u> <u>253.0</u> <u>0.12</u> Bottom: <u>2.2</u> <u>27.6</u> <u>6.68</u> <u>0.13</u> <u>1.7</u> <u>245.3</u> <u>0.12</u> Meter ID: _____						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					
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 ☒ ☐ ☐ ☐					
Sediment Odors: ☐ Normal ☐ Other (Specify): _____ ☐ Anaerobic						SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>2.7</u> VOB ☐					
Weather Conditions: <u>overcast, humid, 94°</u>											
SAMPLING TEAM: <u>W. Bates, Katie March</u>						SIGNATURE: <u>W. Bates</u>			DATE: <u>6/21/22</u>		

LVI Map for Lake Minnie, WBID 2962C

