



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Lake Adelaide @ Center

Date: 8/20/18
(mm/dd/yyyy)

WIN/ Field ID: G2CE0151

WBID: 2998E

Latitude: 28.66625
(Decimal Degrees)

County: Seminole

ORG ID: 21 FL CEN

Longitude: -81.36506
(Decimal Degrees)

Receiving Body of Water: _____

RQ-2018- 06-09-57

Sampling Team Members

Leif Boman

Mike Drennon

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☐ Syringe
☐ Dipper ☐ Other

Depth Measured with [Secchi Disk Line] / Meter
Equipment ID [KNOTHEAD (67) / LEADFOOT (NON)]

Collection Method

☐ Wading ☒ Canoe/Kayak
☐ From Shore ☒ Electric Motor
☐ Other ☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# BODP NON

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intertidal / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	10:15	3.5	0.3	.7	5.82	77.8	7.10	0.08	164	30.62
CEN			3.0		0.29	3.9	6.63	0.12	262	28.87

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: 78772 HA-ID: _____ RPS-ID: _____ Macrophyte-ID: 11033 LIMS#: 2018682

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	13615055		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

H2S04
LOT# SA8101020
EXP: 04/11/2019

Notes:

28.666255, -81.365061

WIN ID / Field ID →

Lake Adelaide @ Center
(2998E)



G2CE0151

Signature: _____

Date: 8/20/18

Enter Field Parameters, Verify Station ID in LIMS DMT: _____

QC Station ID, Field Parameters in LIMS DMT: _____

Scan/Save Field Sheets _____

Migrate Data to WIN: _____

Verify Data in WIN: _____

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Adelaide</u>					County: <u>Seminole</u>					Date: <u>8/20/18</u>				
Analyst: <u>Lawrence Drennon, Ruf Bowen</u>					Signature: <u>[Signature]</u>					STORET:				
Except where noted as "sp." species level identification required. *Genera that may require lab verification*										Lake units sampled (circle one group):				
Plants in bold = FLEPPC invasive exotic.										1, 4, 7, 10 2, 5, 8, 11				
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.										<u>3, 6, 9, 12</u>				
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)			
Acer rubrum	/	/	/	/		Fraxinus								
Alternanthera philoxeroides	/	/	/	/		Fuirena scirpoides								
Amaranthus australis						Gordonia lasianthus								
Andropogon sp.						Habenaria repens								
Azolla filiculoides (A. caroliniana)						Hibiscus coccineus								
Baccharis sp.						Hibiscus grandiflora								
Bacopa caroliniana						Hydrilla verticillata								
Bacopa monnieri						Hydrocotyle sp.	/	/	/	/				
Bidens alba	/					Hygrophila polysperma								
Bidens laevis						Hymenocallis sp.								
Bidens mitis						*Hypericum fasciculatum								
Blechnum serrulatum						*Hypericum hypericoides								
Boehmeria cylindrica	/	/	/	/		*Hypericum myrtifolium								
Brasenia schreberi						Ilex cassine				/				
Cabomba caroliniana						Ipomoea aquatica								
Canna						Ipomoea sagittata								
Centella asiatica						Itea virginica								
Cephalanthus occidentalis	/	/	/	/		Juncus effusus								
Ceratophyllum demersum						*Juncus marginatus								
Chara sp.						*Juncus megacephalus								
Cicuta maculata						Juncus repens								
Cinnamomum camphora						*Juncus scirpoides								
Cladium jamaicense						Lachnanthes caroliniana								
Colocasia esculenta	/	/				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)	/	/	/	/		Luziola fluitans (Hydrochloa carolinensis)								
Eichhornia crassipes	/	/	/	/		Magnolia virginiana								
*Eleocharis						Mayaca fluviatilis								
Eleocharis cellulosa						Melaleuca quinquenervia								
*Eleocharis elongata						Micranthemum glomeratum								
Eleocharis equisetoides						Micranthemum umbrosum								
Eleocharis interstincta						Mikania scandens	/	/	/	/				
Eleocharis submersed viviparous	/					Mimosa pigra								
*Eriocaulon compressum						Myrica cerifera								
*Eriocaulon decangulare						<u>Ptilimavus capillareum</u>	/							
Eupatorium capillifolium	/			/										

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lk. Adehide</u>						Date: <u>8/20/18</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 gibba (U. biflora)				/	
Persea sp.						*Utricularia foliosa					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana	/				
*Polygonum glabrum (densiflorum)						Vitis sp.					
Polygonum hirsutum						*Websteria confervoides					
*Polygonum hydropiperoides						Wedelia trilobata (Sphagneticola trilobata)	/				
*Polygonum punctatum				/		Wolffiella spp.					
*Polygonum						Woodwardia virginica					
Pontederia cordata			/			Xyris sp.					
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						<u>Vigna</u>	/	/	/	/	
*Potamogeton pectinatus (Stuckenia pectinatus)						<u>Rumex</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											

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78772 MACROPHYTE ID: 11033 LATITUDE: 28.66625
COUNTY: Seminole STORET #: G2CE0151 LONGITUDE: -81.36506
DATE: 8/20/2018 TIME: 1015 SAMPLING AGENCY: FDEP-CE20C
SITE NAME: Lake Adelaide Center WBID: 2998E
FIELD ID/NAME: G2CE0151 LAKE SIZE: 23 Acre RQ: 2018-06-04-57

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>20</u> Silviculture <u>0</u> Field/Pasture <u>0</u> Agricultural <u>0</u> Residential <u>65</u> Commercial <u>15</u> Industrial <u>0</u> Other (Specify) <u>0</u>				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>0</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:					
STORMWATER INPUTS <u>6</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>4</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>4</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>SA8101020</u> Exp. Date: <u>4/11/19</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High				Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other			
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>30.62</u> <u>7.10</u> <u>5.82</u> <u>77.8</u> <u>16.4</u> <u>0.08</u> Mid-Depth: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Bottom: <u>3.0</u> <u>28.87</u> <u>6.63</u> <u>0.29</u> <u>3.9</u> <u>262</u> <u>0.12</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 ☒ Turbid ☐ Opaque ☐ Slightly Turbid			
Sample Taken? ☐ Yes ☒ No				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				SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>3.5</u> VOB ☐			
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☐ ☒ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☐ ☒ ☐ ☐				Sediment Odors: ☒ Normal ☐ Other (Specify): ☐ Anaerobic			
Weather Conditions: <u>low 90's, clear</u>				Additional Notes: <u>High levels of benthic periphyton along littoral zone</u>			
SAMPLING TEAM: <u>Leif Boman / Mike Drennan</u>				SIGNATURE: <u>[Signature]</u>		DATE: <u>8/20/18</u>	

Lake Adelaide (2998E)

