

LVI

Site Name Lake Tony Sample Date 10/25/2018

WBID 2994 Y 1 WIN ID GZCE0146 RQ -2018-10-22-65

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	MKL 11/26/18	CHD 11/26/18
Create SBIO station visit <u>79049</u>	MKL 12/5/18	n/a
Vascular Entry (add LIMS ID)	MKL 12/5/18	LB 12/12/18
Lake Observation Sheet Entry	MKL 12/5/18	LB 12/12/18
Authorize SBIO data	LB 12/12/18	n/a
Scan all sheets to 21FLCEN folder		n/a
LIMS/WIN migration		n/a
File in cabinet		n/a

Comments/notes:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Lake Tony @ Center

Date: 10/25/2018
(mm/dd/yyyy)

WIN/ Field ID: G2CE0146

WBID: 2994 Y 1 Latitude: 28.67218

County: Orange ^{MKL} Seminole

ORG ID: 21 FL CEN Longitude: -81.28965
(Decimal Degrees)

Receiving Body of Water: _____

RQ-2018- 10-22-65

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
<u>Mike Linger</u>					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
										☐ Carboy	☒ Syringe			
										☐ Dipper	☐ Other			
<u>Leif Boman</u>										Depth Measured with <u>SECOCHI DISK LINE/ METER</u>				
										Equipment ID (KNOTHEAD/67, LEADFOOT/NON, CRUSTY/SCUD)				
										Collection Method				
										☐ Wading	☒ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: <u>Dry</u> / Pooled / Low / <u>Normal</u> / High / Flooded					Meter ID# <u>Boop / Neon</u>					Matrix: <u>Fresh</u> / Marine / DI				
Photos: <u>Yes</u> / No					Flow: No Flow / Intestinal / Flowing <u>NA</u>					Tide: Rising / Falling / Slack <u>NA</u>			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°)				
<u>EST</u>	<u>1122</u>	<u>4.8</u>	<u>0.3</u>	<u>1.8</u>	<u>5.13</u>	<u>64.4</u>	<u>6.77</u>	<u>0.06</u>	<u>128</u>	<u>26.83</u>				
<u>CEN</u>			<u>4.3</u>		<u>4.13</u>	<u>50.2</u>	<u>6.63</u>	<u>0.06</u>	<u>128</u>	<u>26.17</u>				
Biological Samples Collected: None HA SCI RPS Algae ID LVS <u>LVI</u> Other:														
SBIO ID Numbers: SBIO-ID: <u>79049</u> HA-ID: RPS-ID: Macrophyte-ID: <u>1130</u> LIMS#: <u>2036872</u>														
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		<u>SA8101020</u>	<u>4/11/19</u>	☒ <2				
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <2				
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice		<u>13615055</u>						
Chlorophyll		☒ CHLSUITE-W				☒ Ice								
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-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-E8321-DI ☐ W-E8321-MS				☐ Ice								
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Ice ☐ Other								

Notes: 28.67039
-81.29118

WIN ID / Field ID →

Lake Tony @ Center
(2994Y1)



G2CE0146

Signature: [Signature]

Date: 10/25/18

Enter Field Parameters, Verify Station ID In LIMS DMT: MKL 10/25/18 11/26/18 QC Station ID, Field Parameters In LIMS DMT: MD 11/26/18

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 79049 MACROPHYTE ID: _____ LATITUDE: 28.67218
 COUNTY: Orange ^{ML} Seminole STORET #: 62CE0146 LONGITUDE: -81.28965
 DATE: 10/25/2018 TIME: 1122 SAMPLING AGENCY: FDEP CE-ROC
 SITE NAME: Lake Tony @ Center WBID: 2994 Y 1
 FIELD ID/NAME: _____ LAKE SIZE: small RQ: 2018-10-22-65

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>40</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>60</u> Commercial _____ Industrial _____ Other (Specify) _____							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>9</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>13</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>10</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 ☐ 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 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>26.83</u> <u>6.77</u> <u>5.13</u> <u>64.4</u> <u>128</u> <u>0.06</u> Mid-Depth: _____ Bottom: <u>4.3</u> <u>26.17</u> <u>6.63</u> <u>4.13</u> <u>50.2</u> <u>128</u> <u>0.06</u> Meter ID: <u>Boop / Non</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____ Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Tannic ☐ Clear ☐ Green SECCHI (M) <u>1.8</u> Total Station Depth (M) <u>4.8</u> VOB ☐															
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____ Sample Taken? ☐ Yes ☒ No								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 ☒ ☐ ☐ ☐								Additional Notes:							
Weather Conditions: <u>80's cloudy - rain approaching</u>																							
SAMPLING TEAM: <u>Mike Linger / Mike Deenan</u>										SIGNATURE: <u>Mike Linger</u>				DATE: <u>10/25/18</u>									

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Tony (G2CE0146)</u>		County: <u>Seminole</u>		Date: <u>10/25/18</u>							
Analyst: <u>Leif Bonner</u>		Signature: <u>[Signature]</u>		STORET: <u>G2CE0146</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 <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? (✓)	SPECIES	2	5	8	11	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						Limnobia spongia					
Cyperus haspan						Limnophila sessiliflora					
*Cyperus lecontei						Liquidambar styraciflua					
*Cyperus polystachyos						*Ludwigia arcuata					
*Cyperus odoratus						*Ludwigia grandiflora					
*Cyperus surinamensis						*Ludwigia hexapetala					
Cyrtilla racemiflora						*Ludwigia leptocarpa					
Decodon verticillatus						Ludwigia (native)			/		8
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 viviparus			/			Mimosa pigra	/	/	/	/	
*Eriocaulon compressum						Myrica cerifera					
*Eriocaulon decangulare	/										
Eupatorium capillifolium	/			/							

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Tony (62C50146)</u>						Date: <u>10/25/18</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					
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			/	8		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											
*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											

2018-10-22-65

LVI Map for LAKE TONY, WBID 2994Y1

