



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Bystre Lake

Date: 6/28/2021

WIN/Field ID: G4SW0020

WBID: 1329W

ENR: -

Latitude: 28.54431

County: HERNANDO

Org ID: 21FLTPA

Longitude: -82.33530

Receiving Body of Water: Withlacoochee

RQ- 2021-05-31-61

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Ben Paswater	☒		☒		
☒	Kevin Grace		☒		☒	☒
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Secchi #3	
Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded		Meter ID# SWD	
Photos: YES	Flow: NA	Tide: NA	Tide Times: High: Low
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:			
SBIO ID Numbers: Visit ID: 82637		HA: 16889	Macrophytes: 11855
Notes: LAKE TOPPED OUT WITH HYDRILLA			

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_DDMMYYYY)
DI Source: FDEP SW BOC		Location:	
DI Type:		Equipment ID:	
DI Container (Name/ID):	DI Container Type:		

LIMS EVENT ID: SW-DIST-2021-06-29-01	WIN Import ID: 28292
Enter Field Parameters, Verify Station ID In LIMS DMT: NA/08/16/21 (Initials/Date)	QC Station ID, Field Parameters In LIMS DMT: 34/08/19/21 (Initials/Date)
Scan/Save Field Sheets MM 06/09/2022 (Initials/Date)	Migrate Data to WIN: NA/08/26/21 (Initials/Date)
	Verify Data In WIN: NA/08/26/21 (Initials/Date)



RQ-2021-05-31-61

Customer: WQAP SW-DISTProject ID: SMPCollected By: Ben Paswater, Kevin GraceField Report Prepared By: Ben PaswaterSampling Agency: FDEP SW20C

Place Label Here						Comments:				
WIN ID/Field ID: 										
G4SW0020										
Location: Bystre Lake										
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 (PPTH)
6/28/2021	1050 EST	9.04	116.2	28.3	9.15	0.3	1.1 ☐ VOB (S)	1.4	149.4	0.07
							Central Lab please use top row for login purposes			
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:		043022		
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 #		Not Recorded						
		Syringe Lot #		Not Recorded						
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / 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 ☐ 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)				☐ Ice				
Phytoplankton/Periphyton		☐ DTY-QN-C ☐ PKD-QN-BV				☐ Ice				
Name: Ben Paswater Kevin Grace						Signature: 			Date: 6/28/21	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name:

Bystre Lake

Waterbody: Bystre Lake

County: Hernando

Signature:

Date: 06/28/2021

equired. *Genera that may require lab verification*

Lake units sampled (circle one group):

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.

1, 4, 7, 10 2, 5, 8, 11
3, 6, 9, 12

SPECIES (A-F)	4	1	10	7	Collected? (✓)	SPECIES (G-L)	4	1	10	7	Collected? (✓)
Acer rubrum						Gordonia lasianthus					
Alternanthera philoxeroides						Habenaria repens					
Andropogon sp.						Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata	C	D	D	D	
Baccharis sp.						Hydrocotyle sp.					
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri						*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum						Ilex cassine					
Boehmeria cylindrica						Ipomoea aquatica					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica						*Juncus marginatus					
Cephalanthus occidentalis	✓					*Juncus megacephalus					
Ceratophyllum demersum						Juncus repens					
Chara sp.						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Cliftonia monophylla						Leersia hexandra					
Colocasia esculenta						Landoltia punctata (Spirodela punctata)					
*Commelina						Lemna sp.					
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)					
* Cyperus alternifolius (C. involucratus)						Limnobia spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan						Liquidambar styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos						*Ludwigia leptocarpa					
*Cyperus odoratus						*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrtilla racemiflora						* Ludwigia peruviana					
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri											
Eclipta prostrata (E. alba)											
Egeria densa											
Eichhornia crassipes	C		✓	✓							
*Eleocharis baldwinii											
*Eleocharis											
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium	✓										
*Fuirena											
Fuirena scirpoidea											

7 total plants



Site Name:

Bystre Lake

Date:06/28/2021

Name: Bystre Lake					Collec ted? (✓)						Collec ted? (✓)
SPECIES (M-P)	4	1	10	7		SPECIES (R-Z)	4	1	10	7	
Magnolia virginiana						*Rhexia					
Mayaca fluviatilis						*Rhynchospora corniculata					
Melaleuca quinquenervia						*Rhynchospora inundata					
Micranthemum glomeratum						Rhynchospora tracyi					
Micranthemum umbrosum						Ricciocarpus natans					
Mikania scandens						Sabal palmetto					
Mimosa pigra						Sacciolepis striata					
Myrica cerifera						*Sagittaria filiformis					
Myriophyllum aquaticum						*Sagittaria graminea					
*Myriophyllum heterophyllum						*Sagittaria isoetiformis					
*Myriophyllum laxum						Sagittaria lancifolia					
*Myriophyllum pinnatum						Sagittaria latifolia					
Myriophyllum spicatum						Salix caroliniana	✓	✓			✓
*Najas filifolia						Salvinia minima					
*Najas guadalupensis						Sambucus canadensis					
*Najas minor						Sapium sebiferum					
Nelumbo lutea	✓	✓	✓	✓		Saururus cernuus					
Nitella spp.						Schinus terebinthifolius					
Nuphar sp.						*Schoenoplectus californicus (Cali bulrush)					
Nymphaea odorata						*Schoenoplectus pungens (three square)					
Nymphoides aquatica						*Schoenoplectus tabernaemontani (softstem)					
Nyssa sylvatica var. biflora						Scirpus cubensis (Oxycaryon cubense)					
Orontium aquaticum						Scirpus cyperinus					
Osmunda cinnamomea						*Sesbania					
Osmunda regalis						Solidago sp.					
Panicum hemitomon						Sparganium americanum					
Panicum repens						Spartina bakeri					
Paspalidium geminatum						Sphagneticola trilobata (Wedelia)					
*Paspalum repens						Spirodela polyrhiza					
Paspalum urvillei						Taxodium sp.					
Peltandra sp.						Thalia geniculata					
Persea sp.						Thelypteris palustris					
Pennisetum purpureum						Triadenum virginicum					
Phragmites australis						Typha sp.	✓				
Pinus elliotii						Urochloa mutica (Brachiaria mutica)					
Pistia stratioides						*Utricularia gibba (U. biflora)					
Pluchea sp.						*Utricularia floridana					
*Polygonum glabrum (densiflorum)						*Utricularia foliosa					
*Polygonum hydropiperoides						*Utricularia inflata					
*Polygonum punctatum						*Utricularia purpurea					
*Polygonum sp.						*Utricularia cornuta					
Pontederia cordata						*Utricularia radiata					
*Potamogeton diversifolius						Vallisneria americana					
*Potamogeton illinoensis						*Websteria confervoides					
*Potamogeton pusillus						Wolffiella spp.					
*Potamogeton pectinatus						Woodwardia virginica					
Proserpinaca pectinata						Xyris sp.					
						Zizania aquatica					
						Zizaniopsis milacea					
	</										

Field ID/WIN

G4SW0020

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

Site Name:

Bystre Lake

COUNTY: Hernando

LAKE SIZE: Medium

TIME: 10:50

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)			LDI: _____	
50			40	10						Land Use Source & Yr _____	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Artificially Impounded ☐ Yes ☐ No			
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy											
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			
13		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)			
17		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			
17		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 # _____ Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____									
Meter Readings: Top: Depth (M) 0.3 Temp. (°C) 28.3 pH (SU) 9.15 D.O. (MG/L) 9.04 D.O. Sat. (%) 116.2 Cond. (UMHO/CM) 149.4 Salinity (PPT) 0.07 Mid-Depth: _____ Bottom: _____										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Sample Taken? ☒ Yes ☐ No ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Vegetated ☐ 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										SECCHI (M) 1.4 Total Station Depth (M) 1.4 VOB ☒ Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____									
Weather Conditions: _____										Abundance: Periphyton ☐ Absent ☐ Rare ☐ Common ☒ Abundant Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☐ ☒ ☐ ☐									
Additional Notes: _____																			
SAMPLING TEAM: Ben Paswater, Kevin Grace										SIGNATURE: Ben Paswater									
										DATE: 6/28/2021									