



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: LAKE DAISY

Date: 6-4-19
(mm/dd/yyyy)

WIN/Field ID: G3SW0049

WBID: 1539R

Latitude: 27.99640

County: POLK

ORG ID: 21FLTPA

Longitude: -81.65940

Receiving Body of Water: NA

RQ-2019-06-03-16

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
JUDY ASHTON BRIAN PASWATER						☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
											☐ Carboy	☐ Syringe			
											☐ Dipper	☐ Other			
Depth Measured with: Secchi						Equipment ID: Secchi #1									
Collection Method															
☐ Wading						☒ Canoe/Kayak									
☐ From Shore						☒ Electric Motor									
☐ Other						☐ Gasoline Motor									
Water Level: Dry/ Pooled/ Low / Normal / High / Flooded						Meter ID# B157A					Matrix: Fresh / Marine / DI				
Photos: ☒ Yes No						Flow: No Flow / Interstitial / 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 (umhos/cm)	Temp. (C°)					
EST	1105	3.9	0.3	2.1	7.55	102.6	6.95	0.09	197.0						
			3.4		3.97	54.0	6.50	0.09	197.0	30.55					
Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:															
SBIO ID Numbers: SBIO-ID: 79831 HA-ID: 11073 RPS-ID: Macrophyte-ID: 11385 LIMS#: 2091814															
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		SA8344070	12/10/19	☒					
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <2					
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um Filter				☒ Ice									
Chlorophyll		☒ CHL-SUITE-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-BR-IC / 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-BacR ☐ PCR-GULLZ				☐ Ice									
		☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice									
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice									
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI				☐ Ice									
		☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA				☐ Ice									
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C													

Contains: 1:1 H2SO4
Lot No: SA8344070
Expires: 12/10/19
See Safety Data Sheet (SDS)

Place Pres

Notes:

Field ID/WIN

G3SW0049

Site Name: Lake Daisy @ Center

Signature: Judy Ashton

Date: 6-4-19

LIMS EVENTID: 2019-06-05-01

WIN Import ID: 14194

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 06/18/2019

QC Station ID, Field Parameters In LIMS DMT: SM 08/26/2019

Scan/Save Field Sheets SM 09/16/2019

Migrate Data to WIN: SM 08/26/2019

Verify Data In WIN: SM 09/16/2019

(Initials/Date)

(Initials/Date)

(Initials/Date)

Site Name: Lake Daisy @ Center

Waterbody: LAKE DAISY

County: POLK

Signature: [Signature]

Date: 6-4-15

*Required. *Genera that may require lab verification*

Lake units sampled (circle one group):

1, 4, 7, 10 2, 5, 8, 11

3, 6, 9, 12

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 (A-F)	1	2	3	6	9	Collected? (✓)	SPECIES (G-L)	1	2	3	6	9	Collected? (✓)
Acer rubrum			✓				Gordonia lasianthus			✓			
Alternanthera philoxeroides				✓			Habenaria repens				✓		
Andropogon sp.							Hymenachne amplexicaulis						
Azolla filiculoides (A. caroliniana)							Hydrilla verticillata						
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)							Limnium 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				✓	✓	
Cyrilla 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)							MOLIC BISHOP Phyllanthum				✓		
Egeria densa							BIDENS ALBA				✓		
Eichhornia crassipes							SABAL PALMETTO						
*Eleocharis baldwinii	✓												
*Eleocharis													
Eleocharis cellulosa													
Eleocharis equisetoides													
Eleocharis interstincta													
*Eriocaulon compressum													
*Eriocaulon decangulare													
Eupatorium capillifolium			✓										
*Fuirena													
Fuirena scirpoidea													

Florida Department of Environmental Protection

Central Laboratory Submittal Form

LVIs

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By:

JUDY ASHTON

Collected By:

JUDY ASHTON, BLN PASWATER

Sampling Agency:

FDEP

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6-4-19 Time 1105	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID/WIN	G3SW0049	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.55	Total Res. Chlorine (mg/L)	A
WIN		Temp (C)	pH 6.95	Sample Depth 0.3	Sp. Conductance (umho/cm)	
Site Name: Lake Daisy @ Center		Salinity (ppt) 0.09	Comments			
Latitude		☐ dd ☐ dms				

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID/WIN	G3SW0043	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine (mg/L)	
WIN		Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Site Name: Lake Ida @ Center		Salinity (ppt)	Comments			
Latitude		☐ dd ☐ dms	NOT SAMPLED			

Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	

Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	

Relinquished By: JUDY ASHTON	Date/Time 6-4-19 1105	Shipping Method FBA LA	Number of Coolers Shipped: 1	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>	<u>1</u>
	ALKALINITY							
	TURBIDITY							
	W-CL-IC							
	W-COLOR							
	W-F							
	W-SO4-IC							
	W-TDS							
	W-TSS							
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>	<u>1</u>
	CHLSUITE-W							
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>2</u>	<u>1</u>
	W-NH3							
	W-NO2NO3							
	W-S-A-TP							
	W-TKN							
	W-TOC							
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>2</u>	<u>1</u>
	W-PO4-F							

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

Field ID/WIN

G3SW0049

SAMPLE ID: see sticker in upper rightMACROPHYTE ID: 11385COUNTY: PDLKWBID: 1539RLAKE SIZE: LTIME: 1105Site Name: Lake Daisy @ CenterSAMPLING AGENCY: FLDEP SW ROC

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: <u> </u>				
<u> </u>	<u> </u>	<u>10</u>	<u>20</u>	<u>10</u>	<u>40</u>	<u> </u>	<u> </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		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				
<u>6</u>		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)				
<u>7</u>		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				
<u>13</u>		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 # <u> </u> Exp. Date: <u> </u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other <u> </u>					
Meter Readings: Top: <u>0.3</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Mid-Depth: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Bottom: <u>3.4</u> <u>30.55</u> <u>6.50</u> <u>3.97</u> <u>54.0</u> <u>197.0</u> <u>0.09</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other <u> </u>					
Meter ID: <u> </u>						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): <u> </u>						SECCHI (M) <u>2.1</u> Total Station Depth (M) <u>3.9</u> VOB ☐					
Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): <u> </u>						Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot #: <u> </u> Exp Date: <u> </u> 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: <u> </u>					
Weather Conditions: <u>Hot 95 Sunny</u>											
SAMPLING TEAM: <u>JUDY ASHTON, BEN PASWATER</u>						SIGNATURE: <u>Judy Ashton</u>			DATE: <u>6-4-19</u>		

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: SEE STICKER UPPER RIGHT	LAKE SIZE: L	LAKE NAME LAKE DAISY		FIELD ID / NAME: PUT STICKER ^	
ECO-REGION:	COUNTY: ADLK	SAMPLING LOCATION/DESCRIPTION:			
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☒		Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	
HYDROLOGY				Impounded, hydrology of system artificially controlled ☐	
Color	Very clear, uncolored water (benthic sampling appropriate) ☒	Water somewhat tannin stained (benthic sampling appropriate) ☐		Dark, discolored water (water color 20 PCU or higher) ☐	
				Visibility extremely reduced due to high color ☐	
	Optimal	Suboptimal		Marginal	
Secchi	Secchi > 3 m Or VOB	3 2.6 2.2 1.8 1.4		1.0 0.9 0.8 0.7 0.6	
13	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 11	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 11		Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 6	
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 6	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 11		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 6	
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 10	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 11		Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 6	
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 7	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 11		Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 7	
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 13	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 13		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 7	
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	
Adverse Watershed Land Use	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial 5				
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6	

TOTAL
SCORE**65**

COMMENTS:

ANALYSIS DATE:

6-4-19

ANALYST:

JUDY ASHTON, BEN PASWATER

SIGNATURE:

LVI Map for , WBID 1539R

63SW0049

