



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

A-KIT

Data Qualified?

Yes / No

WIN Station Name: Branwood Dr Pond

Date: 8-14-18

WIN/ Field ID: G2SW0074

WBID: 162161

Latitude: 27.85226 (mm/dd/yyyy)

County: Hillsborough

ORG ID: 21FLTPA

Longitude: -82.33811 (Decimal Degrees)

Receiving Body of Water:

RQ-2018- 08-13-13

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Judy Ashton Ben Paswater Sarah Meyer					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole			
										☐ Carboy	☐ Syringe				
										☐ Dipper	☐ Other				
Depth Measured with										Equipment ID		Collection Method			
												☐ Wading	☒ Canoe/Kayak		
												☐ From Shore	☒ Electric Motor		
												☐ Other	☐ Gasoline Motor		
Water Level: Dry/ Pooled/ Low / Normal / High / Flooded					Meter ID# <u>Chewy</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°)					
EST CEN	1340	2.9	0.3	0.5	8.45	113.4	7.53	0.13	274	30.8					
			2.4		4.63	61.6	6.92	0.13	276	30.2					
Biological Samples Collected: None <u>HA</u> SCI RPS Algae ID LVS <u>LVI</u> Other:															
SBIO ID Numbers: SBIO-ID: <u>78884</u> HA-ID: <u>NA</u> RPS-ID: <u>NA</u> Macrophyte-ID: <u>11070</u> LIMS#: <u>2017298</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>SAB08512</u>	<u>3/19</u>	☒ <2					
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <2					
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice									
Chlorophyll		☒ CHL-SUITE-W				☐ Ice									
Physical/Aggregate (Fresh)		☒ Alkalinity / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY / ☐ W-CI-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 Coll ☐ F Coll ☐ 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									

Notes:

Homeowner says lake used to be much clearer historically. Concerns n/development from adjacent development and routing of stormwater to his lake.

Field ID/WIN

G2SW0074



Site Name: Branwood Dr Pond @ Center

Signature: Ben Paswater

Date: 8/14/18

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 1/14/2019

QC Station ID, Field Parameters In LIMS DMT: SM 12/27/2018

Scan/Save Field Sheets SM 1/14/2019

Migrate Data to WIN: 9103 SM 12/27/2018

Verify Data In WIN: SM 1/14/2019

BIO Authorized: 12/10/18 (MR)

LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78884 MACROPHYE ID: 11070 LATITUDE: 27.85224
 COUNTY: Hills. STORET #: G2SW0074 LONGITUDE: -82.33811
 DATE: 8-14-18 TIME: 1340 SAMPLING AGENCY: FDLP
 SITE NAME: Branchwood Pond WBID: 162161
 FIELD ID/NAME: G2SW0074 LAKE SIZE: 5 RO: 2018-08-13-13

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)							
☐	☐	☐	☐	☐	☐	☐	☐							
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>5</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			<u>5</u> 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>6</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			<u>6</u> 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>3</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			5 4 <u>3</u> 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: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>30.8</u> <u>7.53</u> <u>8.45</u> <u>113.4</u> <u>274</u> <u>0.13</u> Mid-Depth: _____ Bottom: <u>2.4</u> <u>27.2</u> <u>6.92</u> <u>7.63</u> <u>61.6</u> <u>276</u> <u>0.13</u> Meter ID: <u>30.2</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____			
Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☒ Tannic ☒ Green								SECCHI (M) <u>0.5</u> Total Station Depth (M) <u>2.9</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:

RAINING, OVERCAST BUT CLEARING

SAMPLING TEAM: Ben Paswater, Judy Ashton SIGNATURE: Ben Paswater DATE: 8/14/18
Sarah Meyer

Waterbody: <u>Branwood Pond</u>		County: <u>Hillsborough</u>		Date: <u>8/14/15</u>	
Analyst: <u>J. Asner, B. Caswell, S. Meyer</u>		Signature: <u>[Signature]</u>		STORET: <u>G28W0074</u>	
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 <u>2, 5, 8, 11</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	B	S	Z	H	Collected? (✓)
Acer rubrum	X	X			
Alternanthera philoxeroides			X		
Andropogon sp.					
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana					
Bacopa monnieri		X	X		
Bidens laevis		X			
Bidens mitis		X			
Blechnum serrulatum		X			
Boehmeria cylindrica					
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisetifolia					
Centella asiatica					
Cephalanthus occidentalis					
Ceratophyllum demersum					
Chara sp.				D	
Cladium jamaicense					
Cliftonia monophylla					
Colocasia esculenta					
*Commelina					
Crinum americanum					
*Cyperus alternifolius (C. involucratus)	X				
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei		X			
*Cyperus polystachyos	X				
*Cyperus odoratus					
*Cyperus surinamensis		X			
Cyrilla racemiflora					
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii					
*Eleocharis					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena					
Fuirena scirpoidea	X	X			
Gordonia lasianthus	X	X			
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.	X	X			
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spirodela punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnium spongia					
Limnophila sessiliflora					
Liquidambar styraciflua					
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis	X				
*Ludwigia peruviana		X	X	X	
*Ludwigia repens		X			
*Ludwigia					
Luziola fluitans (Hydrochloa carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens					
Mimosa pigra					
Myrica cerifera	X	X	D	X	
Hydrochloa scabra	X				
Ludwigia linearis					
Fuirena scirpoidea					
Bidens alba					
Nymphaeoides mexicana					
PINK EGGS	X	X	X	X	

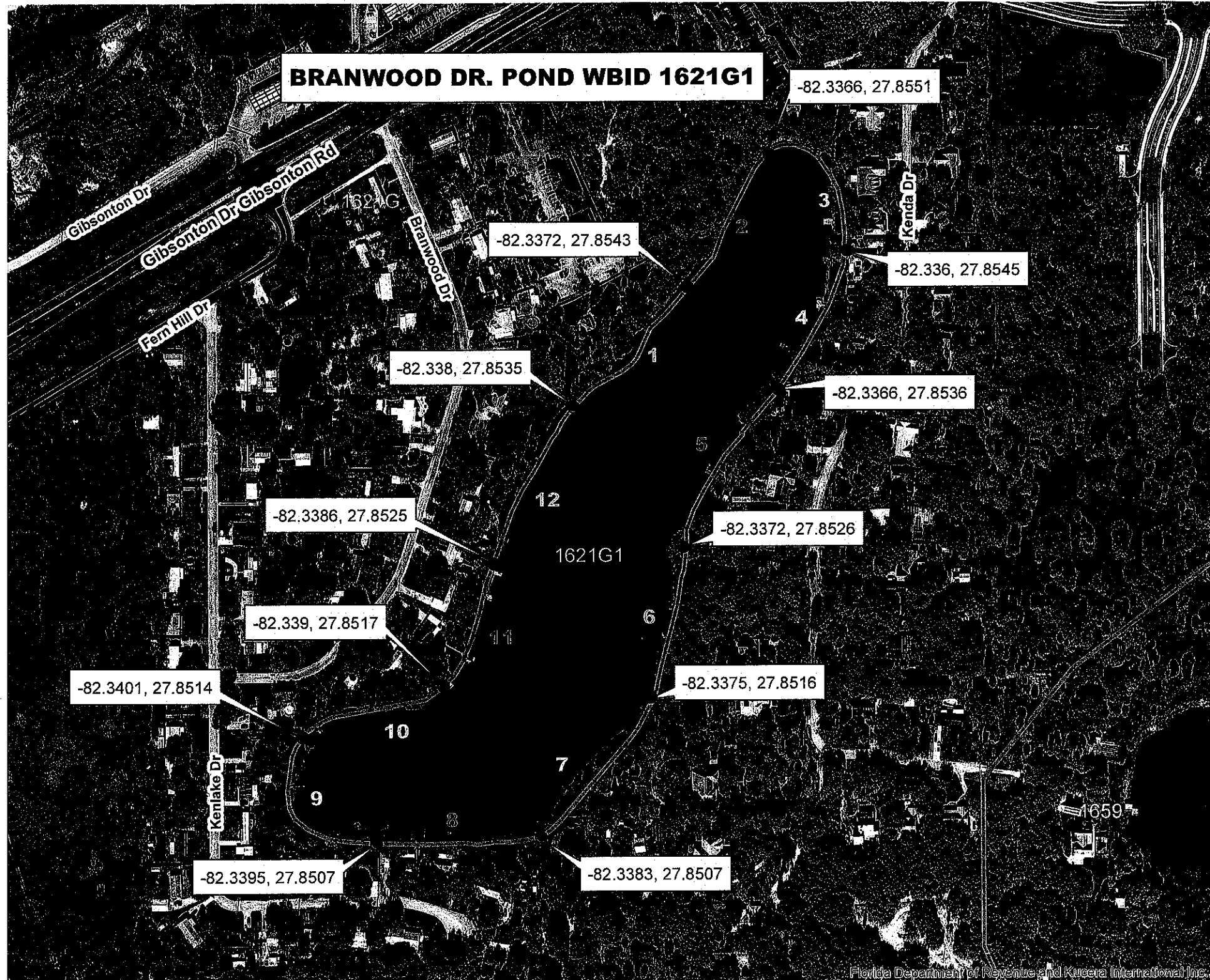
26 species

Site:

Date:

SPECIES	B	S	2	H	Collected? (✓)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea					
Nitella spp.					
Nuphar sp.					
Nymphaea odorata					
Nymphoides aquatica					
Nyssia sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis					
Panicum hemitonon	X	X	X	X	
Panicum repens	X	X	X	X	
Paspalum geminatum					
*Paspalum repens					
Paspalum urvillei					
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis					
Pinus elliotii					
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)					
*Polygonum hydropiperoides					
*Polygonum punctatum					
*Polygonum					
Pontederia cordata					
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuckenia pectinatus)					
Proserpinaca pectinata					
*Rhexia				X	
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynchospora tracyi					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata					
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia					
Sagittaria latifolia					

BRANWOOD DR. POND WBID 1621G1



LVI Hooker & Dr Pond

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: SW-DIST

Requester: Benjamin Paswater

Field Report Prepared By: BP

Project ID: SMP

Collected By: BP, VA, SM

Sampling Agency: SWROC

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/14/18 Time 1100		Eastern Central	Composite end Date Time		Bottle Group(s) (See pg 2)
Field ID/WIN G2SW0069		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.96	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A
Field ID WIN/S		Temp (C) 29.4		pH 7.07	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 140	
Site Name: Lake Hooker Center		Salinity (ppt)		Comments				
Latitude ☐ dd ☐ dms		☐ dd ☐ dms						
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/14/18 Time 1340		Eastern Central	Composite end Date Time		Bottle Group(s)
Field ID/WIN G2SW0074		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.45	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A
Field ID WIN		Temp (C) 30.8		pH 7.53	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 274	
Site Name: Branwood Dr Pond @ Center		Salinity (ppt)		Comments				
Latitude ☐ dd ☐ dms		☐ dd ☐ dms						
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/14/18 Time 1120		Eastern Central	Composite end Date Time		Bottle Group(s)
Field ID/WIN BLANK		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A
Field ID WIN		Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Site Name: Field Blank_08/14/2018		Salinity (ppt)		Comments Field Blank				
Latitude ☐ dd ☐ dms		☐ dd ☐ dms						
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	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)				
Comments								

Relinquished By: Ben Paswater	Date/Time 8/14/18 4pm	Shipping Method Fed Ex	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	3
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	3
CHLSUITE-W					
Group: A	Bottle Type: P-120ML-WC-THI	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2 + 0 AEL
SWD-AEL-EC					
Group: A	Bottle Type: P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
H2SO4 LOT# SA8085170 EXP: 03/26/19					
Group: A	Bottle Type: P-125ML	# of Bottles: 2	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	3
W-PO4-F					



☐	Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
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☐	Tallahassee: 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
☒	Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

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