


**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET**
PAGE 1 OF

Data Qualified?

Yes / No

March 2017

Location/STORET Station Name: BIRD LAKEDate: 08/30 /2017

(mm/dd/yyyy)

STORET # G1SW0085WBID: 1516GLatitude: 28.102 N

(Decimal Degrees)

County: Hillsborough RQ - 2017-08-28-14ORG ID: 21FLTPALongitude: 82.4779 W

(Decimal Degrees)

Receiving Body of Water: Platt Lake

Field ID:

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Sarah Panek						X	X		
Ashley O'Neal					X			X	X

Sampling Equipment	
☐ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other
Equipment ID	

Collection Method	
☐ Wading	☒ Via Boat
☐ From Shore	☒ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / <u>High</u> / Flooded					Matrix: <u>Fresh</u> / Marine / DI				
Meter ID# <u>1483</u>					Photos: <u>Yes</u> / No				
					Tide Falling: Yes / No / NA				

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1345</u>	<u>0.1</u>	<u>3 m</u>	<u>5.34</u>	<u>75.2</u>	<u>(see note)</u>		<u>.83</u>	<u>(see note)</u>	<u>33.6</u>
CEN										

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Acid 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-P04-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
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 ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

SULFURIC ACID >51%
DANGER
7554-99-9
7732-18-5

Contains 1:1 Sulfuric Acid

Contains 1:1 Sulfuric Acid
Lot No.: S47163030
Expires 06/12/18
See Safety Data Sheet (SDS)

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosion resistant container with a resistant inner liner.

Notes:
Access granted by Lori Austin 2017
Call ahead 813-629-3108
16215 Indian Mound Rd.
Split drive, go to right
Kit A, LVI

no meter non functional for pH, sp. conduct.
CALL ON THE WAY OVER.
SO SITE CAN PUT DOGS AWAY

RQ-2017-08-28-14

Date:

Time:

Bird Lake

Field ID

G1SW0085

STORET

G1SW0085

Signature:

Date:

8/30/2017

Field Parameters Entered into LIMS: (Initials/Date)

Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: (Initials/Date)

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

STORET STATION NUMBER:	DATE (M/D/Y) 8/30/2017	LAKE NAME Bird Lake		FIELD ID / NAME:
ECO-REGION:	COUNTY: Hillsborough	SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE: small
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 ☐	Impounded, hydrology of system artificially controlled ☐
HYDROLOGY				
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	Poor
Secchi	Secchi > 3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 11	1.0 0.9 0.8 0.7 0.6 10 9 8 7 6	0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 20 19 18 17 16	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15 14 13 12 11	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10 9 8 7 6	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 5 4 3 2 1
Stormwater Inputs	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
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 20 19 18 17 16	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15 14 13 12 11	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10 9 8 7 6	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5 4 3 2 1
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 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
Upland Buffer Zone	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
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 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1			
TOTAL SCORE	39			
COMMENTS:				
ANALYSIS DATE:	8/30/2017	ANALYST:	S. Panek, A. O'Neal	
SIGNATURE:	Ashley O'Neal			

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.102 N
COUNTY: Hillsborough STORET #: _____ LONGITUDE: 82.4779 W
DATE: 8/30/2017 TIME: 1345 SAMPLING AGENCY: FDEP
SITE NAME: Bird Lake WBID: 1516 G
FIELD ID/NAME: _____ LAKE SIZE: small RQ: 2017-08-28-14

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											
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy										☐ Yes ☒ No											
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>4</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>4</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>5</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 ☒ 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) <u>0.1</u> Temp. (°C) <u>33.6</u> pH (SU) _____ D.O. (MG/L) <u>75.2</u> D.O. Sat. (%) <u>5.34</u> Cond. (UMHO/CM) _____ Salinity (PPT) _____ Mid-Depth: <u>2m</u> <u>29.9</u> _____ <u>39</u> <u>2.91</u> _____ Bottom: <u>4m</u> <u>29.6</u> _____ <u>29.6</u> <u>2.26</u> _____ Meter ID: <u>1483</u> % <u>mg/L</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): _____										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 ☒ ☐ ☐ ☐									
Weather Conditions: <u>hot, sunny, partly cloudy</u>										Additional Notes:									

Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____										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 ☒ ☐ ☐ ☐									
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Weather Conditions: <u>hot, sunny, partly cloudy</u>										Additional Notes:									
--	--	--	--	--	--	--	--	--	--	--------------------------	--	--	--	--	--	--	--	--	--

SAMPLING TEAM: <u>A. O'Neal, S. Panek</u>										SIGNATURE: <u>Sarah Panek</u>										DATE: <u>8/30/2017</u>									
---	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	----------------------------------	--	--	--	--	--	--	--	--	--

Waterbody: Bird Lake

County: Hillsborough

Date: 8/30/17

Analyst: S. Parek A. O'Neal

Signature: Ashley O'Neal

STORET:

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):

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

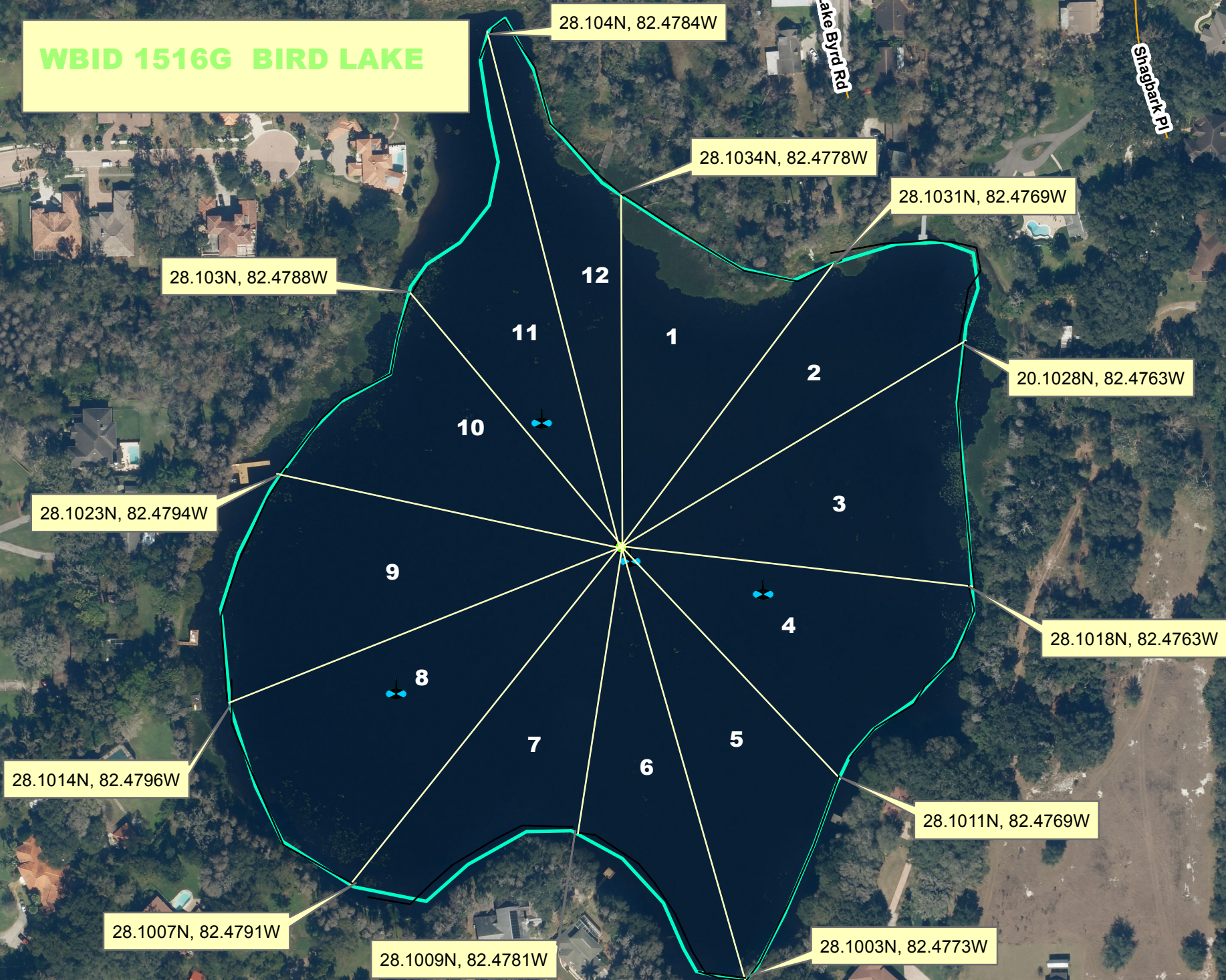
Sec 4 no dominance, not enough taxa

Site:

Date:

[illegible]

WBID 1516G BIRD LAKE



Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WQAP

Requester: Judy Ashton

Field Report Prepared By: A O Neal

Project ID: SMP

Collected By: A O Neal S Panek

Sampling Agency: FDEP

Location Platt Lake		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/30/2017 Time 1145		☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s) (See pg 2)	
Field ID Platt Lake		Matrix (type, e.g., Salt, Fresh, etc) freshwater lake		Diss. Oxygen 4.20	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A	
STORET # GISW0083		Temp (C) 30.2	pH see comment	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) see comment			
Latitude 28.09450278N	☒ dd ☐ dms	Longitude -82.47880556	☒ dd ☐ dms	Salinity (ppt)	Comments meter nonfunctional for pH, sp. cond.				
Location Bird Lake		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/30/2017 Time 1345		☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)	
Field ID Bird Lake		Matrix (type, e.g., Salt, Fresh, etc) freshwater lake		Diss. Oxygen 5.34	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A	
STORET # GISW0085		Temp (C) 33.6	pH see comment	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) see comment			
Latitude 28.102 N	☒ dd ☐ dms	Longitude -82.4779	☒ dd ☐ dms	Salinity (ppt)	Comments field meter nonfunctional for pH, sp. cond.				
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date		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)			
STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments				
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date		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)			
STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By: A O Neal	Date/Time 8/31/17 925	Shipping Method hand delivery	Number of Coolers Shipped:	Received By: Tyler B...	Date/Time 08/31/17 9:25
------------------------------	--------------------------	----------------------------------	----------------------------	----------------------------	----------------------------

Group: A	Bottle Type: P-1L	# of Bottles: 17	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</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: 17	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
CHLSUITE-W				

Group: A	Bottle Type: P-500ML	# of Bottles: 17	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>2</u>
W-NH3				
W-NO2NO3				
W-S-A-TP				
W-TKN				
W-TOC				

Group: A	Bottle Type: P-125ML	# of Bottles: 17	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab <u>2</u>
W-PO4-F				