



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 13

Data Qualified?

Yes / No

Location/STORET Station Name: Lake Arrowhead at boat dock at Turtle Crk Ln near outlet

Date: 07/25/2017

(mm/dd/yyyy)

STORET # G1WA0004

WBID: 564A

Latitude: 30.568517

(Decimal Degrees)

County: Leon

RQ - 2017-06-05-45

ORG ID: 21FLWQA

Longitude: -84.218058

(Decimal Degrees)

Receiving Body of Water: Pine Hill Lake

Field ID: G1WA0004_07252017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson						X	X	X	X
Blake Spencer					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 / <u>Normal</u> / High / Flooded					Matrix: <u>Fresh</u> Marine / DI									
Meter ID# Bio #2					Photos: Yes / <u>No</u>					Tide Falling: Yes / No / <u>NA</u>				
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°)				
EST	8:17	0.3m	1.4	7.68	101.7	7.42	103	0.6	73	30.11				
CEN														

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

SBIO ID Numbers: SBIO-ID: 71839 RPS-ID: Macrophyte-ID: 10590 LIMS#: 1916191

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	<u>SA7163030</u>	<u>6/12/18</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
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 ☐ 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			

Notes:

LVI
Kit ALake Arrowhead at
Boat Dock At Turtle
Crk Ln Near Outlet

STORET ↓



G1WA0004

Field ID →

Lake Arrowhead at
boat dock at
Turtle Crk Ln
near outlet

July 25, 2017



G1WA0004_07252017

Signature:

Date:

Field Parameters Entered into LIMS: CM 7-27-17

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved: DT 8/18/17

(Initials/Date)

(Initials/Date)

SBIO ID: 77839
 Macrophyte ID: 10590
 LIMS: 191691

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

STORET STATION NUMBER: 61W40004	DATE (M/D/Y) 7/25/17	LAKE NAME Lake Arrowhead		FIELD ID / NAME: 61W40004-07252017
ECO-REGION: Purple Hills Valdosta Line Sink	COUNTY: Leon	SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE: 7.17 Acres
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 X = 16 PCU	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 6	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 11	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 3	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 5	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 2	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 1	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 9	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 37	COMMENTS: Stormwater Culvert in PAS (3)
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ANALYSIS DATE: 7/25/17	ANALYST: Curtis Mussen Blake Spencer	SIGNATURE: Curtis Mussen
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LIMS: 1910191

SBIG ID: 77839

Macrophyte ID: 10590

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Arrowhead</u>		County: <u>Leon</u>		Date: <u>7/25/17</u>							
Analyst: <u>Blake Spencer</u>		Signature: <u>[Signature]</u>		STORET:							
Except where noted as "sp." species level identification required. *Genera that may require lab verification* 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.				Lake units sampled (circle one group): 1, 4, 7, 10 2, 5, 8, 11 3, 6, 9, 12							
SPECIES	3	5	8	11	Collected? (✓)	SPECIES					Collected? (✓)
Acer rubrum	X	X	X	X		Habenaria repens					
Alternanthera philoxeroides	X	X	X	X		Hydrilla verticillata					
Andropogon sp.						Hydrocotyle sp.					
Azolla filiculoides (A. caroliniana)						Hrdolea quadrivalis					
Baccharis sp.						Hygrophila polysperma					
Bacopa caroliniana	X		X	X		*Hypericum fasciculatum					
Bacopa monnieri						*Hypericum hypericoides					
Bidens laevis						*Hypericum myrtifolium					
Bidens mitis	X	X	X	X		Ilex cassine					
Blechnum serrulatum						Ipomoea aquatica					
Boehmeria cylindrica	X	X	X	X		Ipomoea sagittata					
Brasenia schreberi						Iris pseudacorus					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica						*Juncus marginatus					
Cephalanthus occidentalis			X			*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)	X					Limnobia spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan						Liquidambar styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos	X					*Ludwigia leptocarpa					
*Cyperus odoratus						*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrtilla racemiflora						*Ludwigia peruviana					
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana	X					*Ludwigia <u>grandiflora</u>					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lycopus virginicus					
Echinochloa walteri						Lyonia lucida					
Eclipta prostrata (E. alba)						Magnolia virginiana					
Egeria densa						Mayaca fluviatilis					
Eichhornia crassipes						Melaleuca quinquenervia					
*Eleocharis baldwinii						Micranthemum glomeratum					
*Eleocharis <u>V. V. parvus</u>	X	X	X	X		Micranthemum umbrosum					
Eleocharis cellulosa						Mikania scandens					
Eleocharis equisetoides						Mimosa pigra					
Eleocharis interstincta						Myrica cerifera					
*Eriocaulon compressum											
*Eriocaulon decangulare						<u>Juncus sp.</u>					
Eupatorium capillifolium						<u>Carex teretica</u>					
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Leon STORET #: GIWA0004 LONGITUDE: _____
 DATE: 7/25/17 TIME: 0817 EST SAMPLING AGENCY: FDEP
 SITE NAME: Lake Arrowhead at boat dock at Turtle Creek Ln WBID: 564A
 FIELD ID/NAME: GIWA0004-07252017 LAKE SIZE: 7.17 acres RQ: 2017-06-05-45

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : <u>water</u> Forest/Natural <u>45.0</u> Silviculture <u>2.4</u> Field/Pasture <u>—</u> Agricultural <u>—</u> Residential <u>26.8</u> Commercial <u>7.6</u> Industrial <u>14.9</u> Other (Specify) <u>3.2</u>								LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>4.5</u>									
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy								Artificially Impounded ☒ Yes ☐ No				Land Use Source & Year:					
STORMWATER INPUTS <u>3</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>2</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>1</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 ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>see field sheet</u> Exp. Date: <u>06/12/16</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____ Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ 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>30.11</u> <u>7.42</u> <u>7.68</u> <u>10.7</u> <u>73</u> <u>0.03</u> Mid-Depth: _____ Bottom: <u>1.4</u> _____ Meter ID: <u>B10 #2</u>										Clarity: ☐ Clear ☒ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>0.6m</u> Total Station Depth (M) <u>1.4</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: <u>LIMS# 1916191</u> <u>SBID ID: 77839</u> <u>Macrophyte ID: 18598</u>									
Weather Conditions : <u>Hot, Humid, Partly Cloudy 85°F</u>																													
SAMPLING TEAM: <u>Blake Spencer + Curtis Mussen</u>										SIGNATURE: 					DATE: <u>7/25/17</u>														

Lake Arrowhead
1,4,7,10

30.5684, -84.2175

30.5674, -84.2181

30.5669, -84.2177

30.5659, -84.2170

30.5673, -84.2168

30.5667, -84.2166

30.5658, -84.2163

Source: Esri, DigitalGlobe, GeoEye, Earthstar, Geo, satellite, GeoEye, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0.08 Miles

0.02

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this name.

Meter Bio #2 RQ- 2017-06-05-45 Project SMP

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/06/2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	7/24/17	1521	23.02	8.57	8.57	100.0	40.0		Pass	Lab
ICV	Blake Spencer	7/24/17	1523	23.02	8.57	8.58	100.1	40.0		Pass	Lab
CCV	Blake Spencer	7/25/17	1626	26.80	7.997	8.27	103.4	40.0		Pass	Lab
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	7/24/17	1525	170310D	03/2018	1000	1000	Pass	Lab
ICV	Blake Spencer	7/24/17	1527	170614D	06/2018	100	103	Pass	Lab
CCV	Blake Spencer	7/25/17	1633	170310D	03/2018	1000	1007	Pass	Lab
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	7/24/17	1536	170310B	09/2018	7.0	7.00		Pass	Lab
Calibr.	Blake Spencer	7/24/17	1546	161111C	05/2018	4.0	4.00		Pass	Lab
Calibr.	Blake Spencer	7/24/17	1550	170310A	03/2018	10.0	10.00		Pass	Lab
ICV	Blake Spencer	7/24/17	1551	170310A	03/2018	4.0	4.00		Pass	Lab
CCV	Blake Spencer	7/25/17	1644	161111C	05/2018	10.00	10.00		Pass	Lab
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Request Number: RQ-2017-06-05-45

EVENT: Pine Hill, Tallavanna Lakes

Customer: WQ-ASSESS

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By:

Field Report Prepared By: Curtis Musson Page 1 of 4
Sampling Agency: FDEP

Lake Arrowhead at
Boat Dock At Turtle
Crk Lr Near Outlet



STORET ↓
G1WA0004

Field ID: →
Lake Arrowhead
at boat dock; at
Turtle Crk Lr
near outlet
July 25, 2017



G1WA0004_07252017

Pine Hill
Lake Middle



STORET ↓
G1WA0054

Field ID: →
Pine Hill
Lake Middle
July 25, 2017



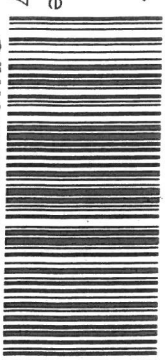
G1WA0054_07252017

Petty Gulf
Lake Middle



STORET ↓
G1WA0022

Field ID: →
Petty Gulf
Lake Middle
July 25, 2017



G1WA0022_07252017

Relinquished By:

Curtis Musson

Date/Time

7/25/17

353PM

Number of Coolers 2

Received By:

C. P.

Date/Time

7/25/17

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Matrix (Fresh, Fresh)	Date	Time	Eastern Central	Date	Time
Temp	30.11	7.42	0.3	73	
pH	7.68				
Diss. Oxygen (mg/L)					
Salinity (ppt)	0.03	LVI			
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					
Bottle Group(s) A					
Matrix (Fresh, Fresh)					
Temp	31.18	8.45	0.3	61	
pH	7.35				
Diss. Oxygen (mg/L)					
Salinity (ppt)	0.02	LVI			
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					
Bottle Group(s) A					
Matrix (Fresh, Fresh)					
Temp	31.55	7.35	0.3	61	
pH	6.97				
Diss. Oxygen (mg/L)					
Salinity (ppt)	0.03	LVI			
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					
Bottle Group(s) A					

Request Number: RQ-2017-06-05-45

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Page 2 of 4

SMP
Customer: WQ-ASSESS
Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

STORRET ↓
Tallahavanna
Lake Middle
G1WA00045



ST
Tallahavanna
Lake Middle
July 25, 2017
G1WA00045_07252017

Location

Field ID

STORRET #

Location

Field ID

STORRET #

Relinquished By:

Date/Time

Number of Coolers

Received By:

Date/Time

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Time 1

Bottle Group(s)

Matrix (Salt, Fresh)
Fresh

Diss. Oxygen (mg/L)
10.92

Eastern Central

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Time 1

Bottle Group(s)

Temp (C)
31.92

pH
8.75

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
260

Bottle Group(s)

Salinity (ppt)
0.12

Comments

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
260

Bottle Group(s)

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Time 1

Bottle Group(s)

Matrix (Salt, Fresh)
Fresh

Diss. Oxygen (mg/L)
10.92

Eastern Central

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Time 1

Bottle Group(s)

Temp (C)
31.92

pH
8.75

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
260

Bottle Group(s)

Salinity (ppt)
0.12

Comments

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
260

Bottle Group(s)

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Time 1

Bottle Group(s)

Matrix (Salt, Fresh)
Fresh

Diss. Oxygen (mg/L)
10.92

Eastern Central

Collection (comp begin or grab)
Date 7/25/17 Time 1436

Time 1

Bottle Group(s)

Temp (C)
31.92

pH
8.75

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
260

Bottle Group(s)

Salinity (ppt)
0.12

Comments

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
260

Bottle Group(s)

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Date/Time

Number of Coolers

Received By:

Date/Time

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						
Group: B	Bottle Type:	BG-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-AHERB-AA						
	W-GLYPH						
	W-PYR-AA-R						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: B	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-CT-Cl-R						
	W-PCL-SQ-R						
Group: B	Bottle Type:	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-PSNP-TQ						
Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	
	W-ICP						
	W-ICPMS						

Group: D	Bottle Type: P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
					4/14
					Page 3 of 3

ECOLL-18QT

Cooler Packing Worksheet for Request: RQ-2017-06-05-45

Pine Hill, Tallavanna Lakes

Ship Cooler On: 5/29/2017

Customer/Project: WQAP/SMP

Assigned To: REYNOLDS_T

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd
MS #3525
Tallahassee, FL 32399-2400
Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit

Group B: Organics (Pesticides)

Group C: Metals

Group D: Bacteria (E. Coli)

Packing notes:

4 - Liters of DI water for a Group A Blank

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00067590

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1199138

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00067591

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Description

Ammonia in aqueous matrices as mg N/L
Nitrite/Nitrate in aqueous matrices as mg N/L
Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 4 Preservation: ICE-FLTR

Lot # 00066437

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 1

Container ID: BG-1L

Qty: 2 Preservation: ICE

Lot # 00068600

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA
W-GLYPH
W-PYR-AA-R
W-SUC-AA-R
W-UHERB-AA

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
Glyphosate in water matrices by HPLC/MS/MS
Pyraclostrobin in water matrices by HPLC/MS/MS
Analysis of sucralose in water matrices by HPLC/MS/MS
Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 044308

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R
W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 06068058

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Bottle Group: C

of Sites: 1

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 06067596

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Bottle Group: D

of Sites: 1

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # 614135

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Cooler Packed By: W

Number of Coolers: 3

Date: 05/30/17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-06-05-45