



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2016

PAGE 1 OF 12

Data Qualified?

Yes / No

STORET Station Name: Central Drainage Ditch downstream of Orange Ave. Date: 12/8/2016

STORET Station ID: G1WA0026 WBID: 857 Latitude: 30.4095 (mm/dd/yyyy)

County: Leon RQ - 2016-12-05-67 ORG ID: 21FLWQA Longitude: -84.3073 (Decimal Degrees)

Receiving Body of Water: Lake Munson Field ID: G1WA0026 1262016 (Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Ben Ralys <u>Diana Turner</u>					X		X		X	☐ Sample Container	☐ Van Dorn	☐ Pole		
Curtis Musson						X		X		☐ 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 / Low / <u>Normal</u> / High / Flooded										Matrix: <u>Fresh</u> / Marine / DI				
Meter ID# <u>Biology #2</u>					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°)				
<u>EST</u>	<u>9:05 AM</u>	<u>0.15</u>	<u>0.3</u>	<u>7.10</u>	<u>73.3</u>	<u>7.58</u>	<u>0.07</u>	<u>VOB</u>	<u>149</u>	<u>16.71</u>				
CEN														
Biological Samples Collected: None <u>HA</u> SCI <u>LVS</u> <u>RPS</u> LVI Other <u>Algal ID</u>														
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>6209120</u>	<u>07/27/17</u>	☒ <2			
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO2				☐ <2			
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice		Contains 1:1 Sulfuric Acid SA-6209120 EXP: 07/27/17 Warning! See SDS					
Chlorophyll		☒ CHLSUITE-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							
Microbiology		☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR					☐ Ice							
Periphyton		☒ ALGAE-ID					☒ Ice							
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH					☐ Ice ☐ Other							

Notes:

Central Drainage
Ditch downstream
of Orange Ave.



G1WA0026

Field ID →

Central Drainage
Ditch downstream
of Orange Ave.

Dec 06, 2016



G1WA0026-1262016

Signature:

Diana Turner

Date:

12/8/16

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)

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: <u>G1WA0026</u>	DATE (MM/DD/YYYY): <u>12/8/16</u>	RECEIVING BODY OF WATER: <u>Lake Munson</u>
REMARKS: <u>SBIA FD 7747</u>	COUNTY: <u>Leon</u>	LOCATION: <u>Central Drainage Ditch</u>		FIELD ID/NAME: <u>Downstream Orange Ave G1WA0026-1262016</u>

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Snag <u>8</u> Roots <u>2</u> Leaf <u>2</u> Rock <u>2</u> Aquatic Vegetation <u>2</u> Substrate Diversity <u>6</u>	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 <u>6</u>	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 <u>2</u> 1
Substrate Availability <u>8</u> <u>12</u> %	Major productive habitat present at site (>30% 27.2% 25.8% 24.4% 26.6%) 20 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% <u>11</u> 9% 6%) 10 9 <u>8</u> 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>15</u> <u>0.25</u> m/s	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 <u>15</u> 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>11</u> ----- Primary Score <u>36</u> <u>40</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 <u>11</u>	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components Artificial Channelization <u>1</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 <u>1</u>
Bank Stability Right Bank <u>5</u> <u>2</u> Left Bank <u>2</u> If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) 10 9	Only meets 2 of the 3 requirements for optimal bank stability. (+,+,-) 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. (+,-,-) 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. (-,-,-) 3 2 1
Riparian Buffer Zone Width Right Bank <u>2</u> Left Bank <u>1</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 4 (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank <u>2</u> <u>3</u> Left Bank <u>3</u> ----- Secondary Score <u>16</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

56 52 **TOTAL SCORE**

Date: <u>12/8/16</u>	Analyst: <u>Curtis Mussen</u>	Signature: <u>Curtis Mussen</u>
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Right Bank

100
90
80
70
60
50
40
30
20
10
0

S L
R M
P

S L
R M
P

S L
R M
P

S L
R M
P

S L
R M
P

S L
R M
P

S L
R M
P

S L
R M
P

S L
R M
P

Leaf Mat 0.5%

Leaf Mat 1%

Leaf Mat 0.5%

Snags / Sweep Leaf Mat 0.5%

Leaf Mats 5%

Leaf Mat 7-10%

Leaf Mat 2-10%

Leaf mats 25%

Snags / Sweep

Leaf mats ~50%

# of Sweeps	Conversion	m ²
Snag	÷ 8	m ²
Root	÷ 8	m ²
Leaf	÷ 8	m ²
M-phyte	÷ 8	m ²
Total Available Habitat		m ²
Total Area		m ²
Available Habitat		%

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Central Drainage Ditch</u> <u>Downstream</u> <u>Orange</u>					County: <u>Leon</u>		Date: <u>12/8/16</u>		Investigators: <u>Curtis Mosson</u> <u>Diana Turner</u>		
Transect (m)					Transect (m)					STORET Station Number: <u>GLWA0026</u>	
Point 1=right 9=left					Point 1=right 9=left						
Algal Thickness Rank (N-6, X)					Algal Thickness Rank (N-6, X)						
Estimated					Estimated						
Canopy Cover					Canopy Cover						

0	1	4	N	60	1	N	N
	2	N			2	N	N
	3				3	N	N
	4				4	N	N
	5				5	N	N
	6				6	N	N
	7				7	N	N
	8				8	N	N
	9				9	N	N
10	1	N	N	70	1	N	N
	2	N	N		2	N	N
	3	N	N		3	N	N
	4	N	N		4	N	N
	5	N	N		5	N	N
	6	N	N		6	N	N
	7	N	N		7	N	N
	8	N	N		8	N	N
	9	N	N		9	N	N
20	1	N	N	80	1	N	N
	2	N	N		2	N	N
	3	N	N		3	N	N
	4	N	N		4	N	N
	5	N	N		5	N	N
	6	N	N		6	N	N
	7	N	N		7	N	N
	8	N	N		8	N	N
	9	N	N		9	N	N
30	1	N	N	90	1	N	N
	2	N	N		2	N	N
	3	N	N		3	N	N
	4	N	N		4	N	N
	5	N	N		5	N	N
	6	N	N		6	N	N
	7	N	N		7	N	N
	8	N	N		8	N	N
	9	N	N		9	N	N
40	1	N	N	100	1	N	N
	2	N	N		2	N	N
	3	N	N		3	N	N
	4	N	N		4	N	N
	5	N	N		5	N	N
	6	N	N		6	N	N
	7	N	N		7	N	N
	8	N	N		8	N	N
	9	N	N		9	N	N
50	1	N	N		1	N	N
	2	N	N		2	N	N
	3	N	N		3	N	N
	4	N	N		4	N	N
	5	N	N		5	N	N
	6	N	N		6	N	N
	7	N	N		7	N	N
	8	N	N		8	N	N
	9	N	N		9	N	N

Secchi depth	<u>voB</u>
Estimated?	

# points ranked 4-6	<u>24</u>
total points assessed	
% points ranked 4-6	

Check accompanying data collected at same site/date.	
Algal mat sample	☒
Linear Veg Survey	☒
Habitat Assessment	☒
SCI/Biorecon	
Water sample	☒
RQ- 2016-12-05-67	

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

SBFO-ID: 77147

RP5-ID: 8512

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Central Drainage Ditch Orange ^{Dunstrom} Date: 12/8/16 County: Leon Storet Number: G1WAA026
 Analyst: Curtis Musson Signature: Curtis Musson

Comments: SMP Sampling

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Alternanthera philoxeroides	X	X	X	X	X			X		X		Myriophyllum heterophyllum											
Bacopa caroliniana												Najas guadelupensis											
Bacopa monnieri												Nuphar luteum											
Bidens mitis												Orontium aquaticum											
Boehmeria cylindrica												Panicum hemitomom											
Centella asiatica												Panicum repens											
Ceratophyllum demersum	X							X	X	X		Panicum rigidulum											
Chara												Peltandra virginica											
Cicuta maculata												Pistia stratioides											
Cladium jamaicense												Polygonum glabra											
Colocasia esculenta								X	X	X		Polygonum hydropiperoides											
Commelina diffusa												Polygonum punctatum											
Commelina virginica												Pontedaria cordata											
Crinum americanum												Potamogeton illinoensis											
Diodia virginiana												Rhynchospora inundata											
Eichhornia crassipes												Rosa palustris											
Eleocharis (wispy viviparous)												Ruellia simplex											
Hydrilla verticillata										X		Rumex verticillatus											
Hydrocotyle					X							Sacciolepis striata											
Hygrophila polysperma												Sagittaria kurziana											
Hymenocallis												Sagittaria lancifolia											
Lachnanthes caroliniana												Sagittaria latifolia											
Landoltia punctata												Salvinia minima											
Lemna												Samolus parviflora											
Limnophila sessiflora												Saururus cernuus											
Ludwigia leptocarpa												Scirpus (schenoplectus) californicus											
Ludwigia palustris												Sparganium americanum											
Ludwigia peruviana												Typha											
Ludwigia repens												Vallisneria americana											
Luziola fluitans												Zizania aquatica											
Micranthemum glomeratum												<u>Echinachola</u>	X	X	X	X	X	X	X	X	X	X	
Micranthemum umbrosum												<u>Ruellia Simplex</u>					X	X					
Mikania scandens																							
Myriophyllum aquaticum																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section												Notes:											
0-5% Macrophyte Coverage												X X X X X X X X X X											
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

Echinachola wateri

☐ < 2m2

SBto-ID: 77147

Mqoc-ID: 10239

Macrophyte QC Report

STORET: G1WA0026

Visit ID: 77147

Macrophyte ID: 10239

LIMS ID:

Sample Date: 12/8/2016

Collector Name: Musson, Curtis

Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
<i>Alternanthera philoxeroides</i>	P	P	P	P	P			P		P	CA
<i>Ceratophyllum demersum</i>	P							P	P	P	CA
<i>Colocasia esculenta</i>								P	P	P	CA
<i>Echinochloa walteri</i>	P	P	P	P	P	P	P	P	P	P	CA
<i>Hydrilla verticillata</i>										P	CA
<i>Hydrocotyle</i>						P					CA
<i>Ruellia simplex</i>						P	P				CA

-12/9/2016

This data has not been fully approved at this time.

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 page.

Meter Biology #2

RQ- 2016-12-05-67

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 09/23/2016

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.	Curtis Musson	12/8/16	0717	20.35	9.03	7.03	100.0	52.3	—	P	LAB
ICV	Curtis Musson	12/8/16	0729	20.35	9.03	9.02	100.0	53.3	—	P	LAB
CCV	Curtis Musson	12/8/16	1347	20.00	9.09	9.25	101.7				
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.	Curtis Musson	12/8/16	7:24	160330D	04/2017	1000	1000	P	LAB
ICV	Curtis Musson	12/8/16	7:23	160330D	04/2017	1000	1000	P	LAB
CCV	Curtis Musson	12/8/16	13:49	16141 G	05/2017	100	101	P	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.	Curtis Musson	12/8/16	7:25	161111B	5/2018	7.0	7.00	-38.5	P	LAB
Calibr.	Curtis Musson	12/8/16	7:27	161111A	4/2017	4.01	4.01	+156.8	P	LAB
Calibr.	Curtis Musson	12/8/16	7:30	160330C	10/2017	10.01	9.95	-186.9	P	LAB
ICV	Curtis Musson	12/8/16	7:32	160330C	10/2017	10.01	9.95	-187.0	P	LAB
CCV	Curtis Musson	12/8/16	13:50	161111A	11/2017	4.01	4.05	151.7	P	LAB
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH 7 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

STORET ↓ G1WA0026 Central Drainage Ditch downstream of Orange Ave. Field ID → Central Drainage Ditch downstream of Orange Ave. Dec 08, 2016 G1WA0026-12062016	☐ Comp ☒ Grab Collection (comp begin or grab) Date 12/8/16 Time 9:05 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 7.10 pH 7.58 Salinity (ppt) 0.07 Latitude (Decimal Degrees) 30.4095 Collection (comp begin or grab) Date 12/8/16 Time 8:20 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 7.14 pH 6.9 Salinity (ppt) 0.04 Latitude (Decimal Degrees) 30.4544	Eastern Central Collection (comp begin or grab) Date 12/8/16 Time 8:20 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 7.14 pH 6.9 Salinity (ppt) 0.04 Latitude (Decimal Degrees) 30.4544	Collection (comp begin or grab) Date 12/8/16 Time 9:05 AM Diss. Oxygen (% Sat) 73.3 Sample Depts (m) 0.15 Sp. Conductance (umho/cm) 149 Longitude (Decimal Degrees) -84.3073	Bottle Group(s) A, B
STORET ↓ G1WA0007 Lake Lafayette Drain 250 meters downstream of Weems Rd Field ID → Lake Lafayette Drain 250 meters downstream of Weems Rd Dec 08, 2016 G1WA0007-12062016	☐ Comp ☒ Grab Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 6.54 pH 6.55 Salinity (ppt) 0.04 Latitude (Decimal Degrees) 30.27792 Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Diss. Oxygen (% Sat) 63.3 Sample Depts (m) 0.15 Sp. Conductance (umho/cm) 81 Longitude (Decimal Degrees) -84.3858	Eastern Central Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 6.54 pH 6.55 Salinity (ppt) 0.04 Latitude (Decimal Degrees) 30.27792	Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Diss. Oxygen (% Sat) 63.3 Sample Depts (m) 0.15 Sp. Conductance (umho/cm) 81 Longitude (Decimal Degrees) -84.3858	Bottle Group(s) A
STORET ↓ G1WA0023 Black Creek upstream of Bloxham Cutoff Field ID → Black Creek upstream of Bloxham Cutoff Dec 08, 2016 G1WA0023-12062016	☐ Comp ☒ Grab Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 6.54 pH 6.55 Salinity (ppt) 0.04 Latitude (Decimal Degrees) 30.27792 Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Diss. Oxygen (% Sat) 63.3 Sample Depts (m) 0.15 Sp. Conductance (umho/cm) 81 Longitude (Decimal Degrees) -84.3858	Eastern Central Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 6.54 pH 6.55 Salinity (ppt) 0.04 Latitude (Decimal Degrees) 30.27792	Collection (comp begin or grab) Date 12/8/16 Time 11:00 AM Diss. Oxygen (% Sat) 63.3 Sample Depts (m) 0.15 Sp. Conductance (umho/cm) 81 Longitude (Decimal Degrees) -84.3858	Bottle Group(s) A

STORET ↓ GT1WA0005		Collection (comp begin or grab) Time Date 12:20 pm 12/8/16		Eastern Central		Collection (comp begin or grab) Date		Time		Bottle Group(s)	
Tanyard Branch 100 meters upstream of Ralph Strong Rd.		Matrix (Salt, Fresh) Fresh		Diss. Oxygen (mg/L) 7.57		Diss. Oxygen (% Sat) 75.9					
Field ID → Tanyard Branch 100 meters upstream of F alph Strong Rd Dec 08, 2016		Temp (C) 15.48		pH 7.04		Sample Depts (m) 0.15				Sp. Conductance (umho/cm) 123	
Salinity (ppt) 0.09		Comments								A	
Latitude (Decimal Degrees) 30.5832		Longitude (Decimal Degrees) -84.5519									
STORET ↓ GT1WA0012		Collection (comp begin or grab) Time Date		Eastern Central		Collection (comp begin or grab) Date		Time		Bottle Group(s)	
Soapstone Branch 100 meters upstream of SR 375 Dec 08, 2016		Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Diss. Oxygen (% Sat)		Sample Depts (m)		Sp. Conductance (umho/cm)	
Field ID → Soapstone Branch 100 meters upstream of SR 375 Dec 08, 2016		Temp (C)		pH						DT 12/8/16	
Salinity (ppt)		Comments									
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)									
STORET ↓ GT1WA0012		Collection (comp begin or grab) Time Date		Eastern Central		Collection (comp begin or grab) Date		Time		Bottle Group(s)	
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Diss. Oxygen (% Sat)		Sample Depts (m)				Sp. Conductance (umho/cm)	
Temp (C)		pH									
Salinity (ppt)		Comments									
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)									

Group: A	Bottle Type:	P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 5	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: 5	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						

Group B Algae ID 2

Cooler Packing Worksheet for Request: RQ-2016-12-05-67
Soapstone Branch, Central Drainage Ditch, Lake Lafayette Drain and Black Creek

Ship Cooler On: 12/2/2016
Customer/Project: WQAP/SMP

Requester: Benjamin Ralys
Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:

No preservatives needed.

Bottle Group A: freshwater kit no metals

Bottle Group B: Algal

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00062304 (1)

Description: Plastic Bottle 1L

00062637 (2)
00058886 (2)

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

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)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 5 Preservation: ICE

Lot # 1170333 (3)

Description: Brown Plastic Bottle 1L

1110653 (2)

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00062785 (2)

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

00058661 (2)

00063035 (1)

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: 5 Preservation: ICE-FLTR

Lot # 00064310 (2)

Description: Plastic Bottle 125 mL

000058697 (2)

00058668 (1)

Analysis

W-PO4-F

Description

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

Cooler Packed By: _____ Date: _____

DEP Cooler ID #(s): _____

Kit must also include:

- ___ Field Sheets
- ___ Temperature Control Bottle (1 per cooler)
- ___ FedEx Bills, if applicable (1 per cooler)
- ___ Plastic Bags
- ___ Zip Ties

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2016-12-05-67