



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified?

Yes / No

STORET Station Name: Chicken Branch

Date: 07/14/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0031

WBID: 971

Latitude: 30.3261

(Decimal Degrees)

County: Leon

RQ - RQ-2016-07-11-28

ORG ID: 21FLWQA

Longitude: -84.1481

(Decimal Degrees)

Receiving Body of Water: St. Marks River

Field ID: G1WA0031-07142016

Sampling Team Members

Curtis Musson

Ben Ralys

Justin Wallhiser

WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
X	X	X	X	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 / Low / Normal / High / Flooded

Matrix: Fresh / Marine / DI

Meter ID# Biology 2

Photos: Yes / 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°)
EST	0930	0.3	0.5	5.90	67.1	7.47	0.14	WOB	293	26.6
CEN										

Biological Samples Collected: None ☒ FIA ☒ SCT ☒ LVS ☒ RPS LVI Other

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	SA 6133010	05/12/2017	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <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-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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ 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			

Contains
1:1
Sulfuric Acid
SA-6133010
EXP: 05/12/17
Warning!
See SDS

Adhesive Sticker(s) Here
(if Available)

Notes:

4.6 m/s on 5m 0.22 m/s
SB to: 76530 RPS: 8212
STAFF # 1040
Gage
Marine ID: 9918



G1WA0031 14 July 2016

Chicken Branch

Signature:

Curtis Musson

Date:

7-14-2016

Field Parameters Entered into LIMS: Cm 7-22-16
(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>GIWA0031</u>	DATE (MM/DD/YY): <u>7/14/16</u>	RECEIVING BODY OF WATER: <u>St. Marks River</u>
REMARKS: <u>SMP</u>	COUNTY: <u>Leon</u>	LOCATION: <u>Chicken Branch at old</u>	FIELD ID/NAME: <u>GIWA0031-07142016</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Snag Leaf Aquatic Vegetation Roots Rock	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>15</u>	20 19 18 17 16	<u>9</u> 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>18</u> %	Greater than 30% major productive habitat present at site (100% 83% 66% 48% 30.5%) 20 19 <u>18</u> 17 16	16% to 30% major productive habitat, by aerial extent (30.4% 27% 23% 20% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>14</u> <u>0.22</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 15 <u>14</u> 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>4</u> ----- Primary Score <u>51</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 11	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 <u>4</u> 3 2 1
Secondary Habitat Components Artificial Channelization <u>20</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. <u>20</u> 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 <u>4</u> 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</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. (+,+,+) <u>10</u> 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>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 9	Width of vegetation >12 to 18m (18m 15m 12m) 8 7 6	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>10</u> Left Bank <u>10</u> ----- Secondary Score <u>80</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. <u>10</u> 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

131

TOTAL SCORE

Date: <u>7-14-2016</u>	Analyst: <u>Curtis Mussen</u>	Signature: <u>Curtis Mussen</u>
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SBIO-ID 76530

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID G1WA0031 ORG ID 21 FIVE A LATITUDE 30.3261
 COUNTY Leon STORET # G1WA0031 LONGITUDE -84.1481
 DATE 7-14-2016 TIME 0915 SAMPLING AGENCY FDSP
 SITE NAME Chicken branch at old Plank Rd
 FIELD ID/NAME G1WA0031-07142016 RECEIVING BODY OF WATER ST. MARKS

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>4.2</u> Silviculture <u>43.4</u> Field/Pasture <u>0.8</u> Agricultural <u>0.2</u> Residential <u>8.1</u> Commercial <u>0</u> Industry <u>4.2</u> Other (Specify) <u>Reservoirs</u>								Landscape Development Intensity Index (LDI) <u>2.01</u>
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>6</u> m wide <u>0.22</u> m/s <u>0.5</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>718</u> Right Bank: <u>718</u>				Hydrologic Modification Score (per FT 3101) <u>3-4</u>				
High Water Mark: <u>0.4</u> + <u>0.55</u> = <u>0.95</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)				

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse	Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):	Smothering of Substrates Sand Smothering: None ☒ Slight ☐ Moderate ☐ Severe Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe
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SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon				WATER QUALITY							
Invert % Coverage: <u>25</u> Woody Debris (Snags) <u>5</u> Undercut Banks / Roots <u>5</u> Leaf Packs or Mat <u>0</u> Aquatic Vegetation <u>25</u> Rock or Shell Rubble <u>0</u> Sand <u>0</u> Mud / Muck / Silt <u>25</u> Other <u>1</u> Other <u>1</u>				Depth (M) <u>0.3</u> Temp. (°C) <u>21.65</u> pH (SU) <u>7.47</u> D.O. (MG/L) <u>5.90</u> D.O. Sat (%) <u>67.1</u> Cond. (UMHO/CM) <u>293</u> Salinity (PPT) <u>0.14</u> SECCHI (M) <u>0.5</u>	Meter ID: <u>Bidos 1 #2</u>		Water Odors: Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐		Water Surface Oils: Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐		
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>54613396</u> Exp: <u>3/12/17</u>				Color: Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐		Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____		Clarity: Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐			
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☒ ☐ ☒ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☐ ☒ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐				System Type: Stream ☒ Lake ☐ Wetland ☒ Estuary ☐ Other (Specify) ☐							
AMBIENT FIELD CONDITIONS / NOTES: <u>SBID ID: 76530 Gase Hight at 1.40</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.											

SAMPLING TEAM Ben Reel KS, Justin Wall Heist SIGNATURE: Curtis Mussen DATE: 7-14-2016

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Chickasaw Branch cut old Plant Rd.</u>					County: <u>Leban</u>		Date: <u>7-14-2016</u>		Investigators: <u>Curtis MUSA</u>	
STORET Station Number: <u>GLW40031</u>										

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	N	N		60	1	N	N		
	2					2				
	3					3				
	4			96		4				96
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
10	1				70	1				
	2					2				
	3					3				
	4			96		4				96
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1				80	1				
	2					2				
	3					3				
	4			96		4				96
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1				90	1				
	2					2				
	3					3				
	4			96		4				96
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1				100	1				
	2					2				
	3					3				
	4			96		4				96
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1					1				
	2					2				
	3					3				
	4			96		4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				

Secchi depth	<u>100</u>
Estimated?	<u>no</u>

# points ranked 4-6	<u>0</u>
total points assessed	<u>29</u>
% points ranked 4-6	<u>0</u>

Check accompanying data collected at same site/date.	
Algal mat sample	<u>NO</u>
Linear Veg Survey	<u>YES</u>
Habitat Assessment	<u>YES</u>
SCI/Bioscience	<u>YES</u>
Water sample	<u>YES</u>
RQ- <u>2016-07-11-28</u>	

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

SBIO: 76530
RPS ID: 8212

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: Chickam Branch at Date: 7/14/11 County: Leon Storet Number: G/64 003
 Analyst: Curtis Musson Old Plant Rd. 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												Myriophyllum heterophyllum											
Bacopa caroliniana												Najas guadelupensis											
Bacopa monnieri												Nuphar luteum											
Bidens mitis												Orontium aquaticum											
Boehmeria cylindrica												Panicum hemitomon											
Centella asiatica												Panicum repens											
Ceratophyllum demersum												Panicum rigidulum											
Chara												Pistia stratioides											
Cicuta maculata												Polygonum glabra											
Cladium jamaicense												Polygonum hydropiperoides											
Colocasia esculenta												Polygonum punctatum											
Commelina diffusa												Pontedaria cordata											
Commelina virginica												Potamogeton illinoensis											
Crinum americanum												Rhynchospora inundata											
Diodia virginiana												Rosa palustris											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Rumex verticillatus											
Hydrilla verticillata												Sacciolepis striata											
Hydrocotyle												Sagittaria kurziana											
Hygrophila polysperma												Sagittaria lanceolata glauca											
Hymenocallis												Sagittaria latifolia											
Lachnanthes caroliniana												Salvinia minima											
Landoltia punctata												Samolus parviflora											
Lemna												Saururus cernuus											
Limnophila sessiflora												Scirpus (schenoplectus) californicus											
Ludwigia leptocarpa												Sparganium americanum											
Ludwigia palustris												Typha											
Ludwigia peruviana												Vallisneria americana											
Ludwigia repens												Zizania aquatica											
Luziola fluitans												Carex Gigantha											
Micranthemum glomeratum												SE Dye SP. ↑											
Micranthemum umbrosum												Rhynchospora inundata											
Mikania scandens												Mermaid weed											
Myriophyllum aquaticum												P. Aron ↑ Peltandra virginica											
If no Dominant or Co-Dominant were selected, indicate with "X"													Proserpinaca palustris										
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage																							
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

SBID: 76530

Macro Phyte ID: 9918

Macrophyte QC Report

STORET: G1WA0031

Visit ID: 76530

Macrophyte ID: 9918

LIMS ID:

Sample Date: 1/14/2016

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>Carex gigantea</i>						P	P			C
<i>Cicuta maculata</i>	D	D	P	P	P	P	P	P	P	P
<i>Ludwigia repens</i>		P	P	P	P	P	P	P		
<i>Peltandra virginica</i>			P							
<i>Polygonum hydropiperoides</i>		P	P	P		P	P			
<i>Pontederia cordata</i>		P	P	P	D	D	C		P	C
<i>Proserpinaca palustris</i>	P			P		P		P		
<i>Rhynchospora inundata</i>		P	P		P	P	C			
<i>Sagittaria graminea</i>				P		P			P	
<i>Saururus cernuus</i>				P		P	P		P	P

CM

CM

CM

CM

CM

CM

CM

CM

CM

CM

CM 7-22-2016

This data has not been fully approved at this time.

FDEP Plant Sampling Review

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

Really "X" this box there is quoted data on this page.

Meter Biology 2

RQ- RQ-2016-07-11-28

Project SMP

DO

- 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 06/03/2016

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 Mussen	7/14/16	0711	23.04	8.578	8.57	100.0	46.1	—	P	L
ICV	Curtis Mussen	7/14/16	0712	23.05	8.582	8.57	100.0	46.1	—	P	L
CCV	Curtis Mussen	7/14/16	1445	28.0	7.81	8.24	100.1	42.1	—	Fail	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.	Curtis Mussen	7/14/16	0714	160330D	04/2017	1000	1000	P	L
ICV	Curtis Mussen	7/14/16	0716	160330D	04/2017	1000	1000	P	L
CCV	Curtis Mussen	7/14/16	1447	2601533	12/2017	100	100	P	L
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 Mussen	7/14/16	0718	160330D	10/2017	7.000	7.00	-18.5	P	L
Calibr.	Curtis Mussen	7/14/16	0721	160330A	04/2017	4.01	4.01	151.6	P	L
Calibr.	Curtis Mussen	7/14/16	0723	160330C	10/2017	10.01	9.99	-189.3	P	L
ICV	Curtis Mussen	7/14/16	0725	160330C	10/2017	10.01	9.99	-189.4	P	L
CCV	Curtis Mussen	7/14/16	1449	160330B	10/2017	7.000	7.07	-20.0	P	L
CCV										

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

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

mV pH 10 Range -180 ± 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-2016-07-11-28

Wakulla River and Chicken Branch

Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 2

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Ben Ralys, Curtis Musson

Field Report Prepared By:

Curtis Musson

Sampling Agency:

FDEP

Location Chicken Branch at old Plank Rd		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7-14-16 Time 0930		Eastern Central		Composite end Date — Time —		Bottle Group(s) (See pg 2)	
Field ID GIWA0031-07142016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.90		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		A, B	
STORET # GIWA0031		Temp (C) 21.65		pH 7.47		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 293	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) 0.14		Comments SMP					
Location Wakulla River Below US 98		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7-14-2016 Time 13:00		Eastern Central		Composite end Date — Time —		Bottle Group(s)	
Field ID GIWA0028-07142016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.13		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		A, B, C	
STORET # GIWA0028		Temp (C) 22.60		pH 7.80		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 411	
Latitude 30.17607 ☒ dd ☐ dms		Longitude -84.2429 ☒ dd ☐ dms		Salinity (ppt) 0.20		Comments SMP					
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)			
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 — 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)			
STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments					

Relinquished By: Curtis Musson	Date/Time 7/14/16 / 14:26	Shipping Method	Number of Coolers Shipped:	Received By: SK	Date/Time 7-14-16 / 2:25
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Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00064521

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: 2 Preservation: ICE-FLTR

Lot # 00065090

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: 2

Container ID: PJ-2L

Qty: 4 Preservation: Formalin

Lot # BIOWASTH

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Bottle Group: C

of Sites: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: Tyler Reynolds Date: 06/24/16
DEP Cooler ID #(s): 120062

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-2016-07-11-28

Cooler Packing Worksheet for Request: RQ-2016-07-11-28

Wakulla River and Chicken Branch

Ship Cooler On: 6/27/2016

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 kits no metals

Bottle Group B: SCI

Bottle Group C: Algal

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

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: 2 Preservation: ICE

Lot # 1172350

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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