



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

pH

WIN Station Name: Three Pole Creek Upstream of Geddies Rd.

Date: 6/6/2018

(mm/dd/yyyy)

WIN ID/ Field ID G/WA0076

WBID: 852

Latitude: 30.4631

(Decimal Degrees)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.4037

(Decimal Degrees)

Receiving Body of Water: Ochlockonee River

RQ - 2018-06-04-38

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection	Sampling Equipment		
Ben Ralys			X		X	X			☒ Sample Container	☐ Van Dorn	☐ Pole
Blake Spencer		X		X					☐ Carboy	☒ Syringe	
									☐ Dipper	☐ Other	
									Depth Measured with: <u>meter stick</u>		
									Equipment ID		
									Collection Method		
									☒ Wading	☐ Canoe/Kayak	
									☐ From Shore	☐ Electric Motor	
									☐ Other	☐ Gasoline Motor	
Water Level: Dry/ Pooled/ Low/ <u>Normal</u> / High/ Flooded					Meter ID# Biology #2				Matrix: <u>Fresh</u> / Marine / DI		
Photos: <u>Yes</u> No		Flow: No Flow / Intestinal / <u>Flowing</u> NA			Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High <u>NA</u> Low <u>NA</u>				

Field Sample

(Bracket Sample Time)

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1015</u>		<u>0.05</u>		<u>9.61</u>	<u>109.5</u>	<u>6.98</u>	<u>0.11</u>	<u>238</u>	<u>21.76</u>
CEN		<u>0.1</u>		<u>VOB</u>						

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

SBIO ID Numbers: SBIO-ID: 78423 HA-ID: 15181 RPS-ID: 9026 Macrophyte-ID: LIMS#: 1998113

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>SA7341020</u>	<u>12/2/18</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>NA7341010</u>	<u>12/2/18</u>	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>10987094</u>		
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			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-MS ☐ W-E8321-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E8321-MS ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E8321-DI ☐ W-CARB-AA	☐ Ice ☐ Other			

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Contains
1:1
Nitric Acid
NA-7341010
EXP: 12/7/18
See SDS

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Time: _____		Field ID: _____ (WIN ID + DUP)	
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-MS ☐ W-E8321-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E8321-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice ☐ Other			
Place Preservative Sticker(s) Here (If Available)					

Blank

Time Zone: <u>EST</u> CEN		Time: <u>1110</u>		Field ID: <u>Blank-0606018</u> (Blank_DDMMYYYY)	
DI Source: <u>FOEP Tallahassee Lab</u>		Location: <u>GIWA0071</u>			
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: _____			
WIN DMT Blank Batch ID:					
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	<u>SA7341020</u>	<u>12/7/18</u>	☒ < 2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO ₃	<u>NA7341010</u>	<u>12/7/18</u>	☒ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>10827054</u>		
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			
Tracers	☒ W-E3821-MS ☒ W-E3821-DI	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-MS ☐ W-CARB-AA	☐ Other			
Notes: Kit-C Bacteria RPS, LVS					
			WIN ID/Filed ID  GIWA0076		
Signature: <u>[Signature]</u>				Date: <u>6/6/18</u>	

Enter Field Parameters, Verify Station ID In LIMS DMT: SA 6/7/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: CM 6-12-18 (Initials/Date)

Scan/Save Field Sheets CM 6-12-18 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

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

SRTIO: 78423 HA: 15181

Entered by: ~~aga~~ 6/8/18
QC by: C m 6-12-18

SAMPLING AGENCY: 21FLWGA FOEP Tallahassee		STORET STATION NUMBER: GIWAC076	DATE (MM/DD/YY): 6/6/18	RECEIVING BODY OF WATER: Chlokokonee River
REMARKS:	COUNTY: Leon	LOCATION: Three Pole Creek Upstream of Geddies Rd.	FIELD ID/NAME:	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	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>6</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 <u>6</u>	5 4 3 2 1
Substrate Availability <u>3</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 <u>3</u> 2 1
Water Velocity <u>13</u>	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 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>18</u> Primary Score <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 <u>18</u> 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 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	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.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank <u>7</u> Left Bank <u>2</u>	10 9	8 <u>7</u> 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank <u>10</u> Left Bank <u>10</u>	<u>10</u> 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	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.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <u>10</u> Left Bank <u>10</u> Secondary Score <u>74</u>	<u>10</u> 9	8 7 6	5 4	3 2 1

114

TOTAL SCORE

Date: 6/6/18	Analyst: Blake Spencer	Signature: 
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Entered by: Blake Sp 6/9/18

SBIO: 78423 RPS ID: 9026

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Three Pole Creek</u>					County: <u>Leon</u>		Date: <u>6/6/2018</u>		Investigators: <u>Blake Spencer + Ben Rahs</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	STORET Station Number:
										<u>G1WA0076</u>
0	1	N		96	60	1	N		96	Secchi depth
	2					2				Estimated?
	3					3				
	4					4				# points ranked 4-6
	5					5				total points assessed
	6					6				% points ranked 4-6
	7					7				
	8					8				
	9	N				9	N			
10	1	N		96	70	1	N		96	Check accompanying data collected at same site/date.
	2					2				Algal mat sample
	3					3				Linear Veg Survey
	4					4				Habitat Assessment
	5					5				SCI/Biorecon
	6					6				Water sample
	7					7				
	8					8				
	9	N				9	N			
20	1	N		96	80	1	N		96	RQ- <u>2018-06-04-38</u>
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9	N				9	N			
30	1	N		96	90	1	N		96	
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9	N				9	N			
40	1	N		96	100	1	N		96	
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9	N				9	N			
50	1	N		96		1	N			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.
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9	N				9	N			

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%.

Secchi depth	<u>NOB</u>
Estimated?	<u>NO</u>

# points ranked 4-6	<u>0</u>
total points assessed	<u>99</u>
% points ranked 4-6	<u>0</u>

Check accompanying data collected at same site/date.

Algal mat sample	
Linear Veg Survey	☒
Habitat Assessment	
SCI/Biorecon	
Water sample	☒

RQ- 2018-06-04-38

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

6mm

20mm

10cm

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

Waterbody: *Three Pole Creek*

Date: 6/6/18

County: Leon

Storet Number: *G/WA 0076*

Analyst: Blake Spencer + Ben Ralys

Signature:

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.

[illegible]

Florida Department of Environmental Protection

Central Laboratory Submittal Form

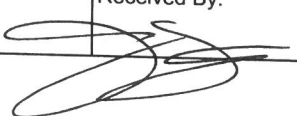
Customer: WAS-SECT

Requester: Curtis MussonField Report Prepared By: Ben Rals, Blake Spencer

Project ID: SMP

Collected By: Ben Rals, Blake SpencerSampling Agency: FDEP

Location Central Drainage Ditch downstream of Orange Ave.		WIN ID / FIELD ID  G1WA0026	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>8:00</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) (See pg 2) A, C
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>84.1</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>25.96</u>	pH <u>7.71</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>162</u>
Latitude <u>30.4095</u>	☒ dd ☐ dms	Longitude <u>-84.3073</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.08</u>	Comments <u>Saw a family of River otter</u>		
Location Godby Drainage at Progress Dr.		WIN ID / Field ID  G1WA0061	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>8:50</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) A
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>84.6</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>23.79</u>	pH <u>7.95</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>132</u>
Latitude <u>30.444661</u>	☒ dd ☐ dms	Longitude <u>-84.344711</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.06</u>	Comments		
Location Ochlockonee River Upstream of US 90		WIN ID / FIELD ID  G1WA0068	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>9:30</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) A
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>79.6</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>25.10</u>	pH <u>7.47</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>80</u>
Latitude <u>30.47573</u>	☒ dd ☐ dms	Longitude <u>-84.40595</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.04</u>	Comments		
Location Three Pole Creek		WIN ID/Field ID  G1WA0076	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>10:15</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) A
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>109.5</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>21.76</u>	pH <u>6.98</u>	Sample Depth <u>0.05</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>238</u>
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) <u>0.4</u>	Comments		

Relinquished By: <u>Ben Rals</u>	Date/Time <u>6/6/18</u>	Shipping Method <u>Delivered</u>	Number of Coolers Shipped: <u>4</u>	Received By: 	Date/Time <u>6/6/18 1408</u>
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Florida Department of Environmental Protection Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtiss Musson

Collected By:

Ben Ralys, Blake Spencer

Field Report Prepared By:

Ben Ralys, Blake Spencer

Sampling Agency:

FDEP

Location		WIN ID / FIELD ID		☐ Comp ☒ Grab		Collection (comp begin or <u>Grab</u>)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Ochlockonee River		Date		6/6/18		Time		Date		Time	
WIN/STORET #		Downstream of Tower Rd		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A	
Latitude		30.52646		Longitude		-84.38821		Temp (C)		pH		Sample Depth	
☒ dd ☐ dms		☒ dd ☐ dms		Salinity (ppt)		Comments		NOT Collected					
Location		WIN ID / FIELD ID		☐ Comp ☒ Grab		Collection (comp begin or <u>Grab</u>)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Ochlockonee River		Date		6/6/18		Time		Date		Time	
WIN/STORET #		Upstream of Tower Rd		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A	
Latitude		30.52967		Longitude		-84.38896		Temp (C)		pH		Sample Depth	
☒ dd ☐ dms		☒ dd ☐ dms		Salinity (ppt)		Comments		NOT Collected					
Location		WIN ID / FIELD ID		☐ Comp ☒ Grab		Collection (comp begin or <u>Grab</u>)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Ochlockonee River		Date		6/6/18		Time		Date		Time	
WIN/STORET #		Upstream of Old Brainbridge		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A	
Latitude		30.5864		Longitude		-84.3571		Temp (C)		pH		Sample Depth	
☒ dd ☐ dms		☒ dd ☐ dms		Salinity (ppt)		Comments		NOT Collected					
Location		WIN ID / Filed ID		☐ Comp ☒ Grab		Collection (comp begin or <u>Grab</u>)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Harbinwood		Date		6/6/18		Time		Date		Time	
WIN/STORET #		Estates Drain		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A, B	
Latitude		30.5193		Longitude		-84.3357		Temp (C)		pH		Sample Depth	
☒ dd ☐ dms		☒ dd ☐ dms		Salinity (ppt)		0.04		7.09		0.1		97	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	6/6/18	Delivered	4		6/6/18 1418

Request Number: RQ-2018-06-04-38

CDD, Godby, 3Pole, Ocklock, Harbinwood

Florida Department of Environmental Protection Central Laboratory Submittal Form

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last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralys, Blake Spencer

Field Report Prepared By: Ben Ralys, Blake Spencer

Sampling Agency: FDEP

Location		Field ID		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		Harbinwood Estates Drain		Date		6/6/18		Time		11:45		Date	
WIN/STORET #		QC DUP G1WA0034_DUP		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		69.1		Total Res. Chlorine	
Latitude		30.5193		Longitude		-84.3357		Temp (C)		26.43		pH	
Salinity (ppt)		0.04		Comments		Duplicate		Sample Depth		0.1		Sp. Conductance (umho/cm)	
Field ID		Field Blank		Date		6/6/18		Time		11:45		Bottle Group(s)	
WIN/STORET #		Blank_0606018		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		—		Total Res. Chlorine	
Latitude		30.5193		Longitude		-84.3357		Temp (C)		—		pH	
Salinity (ppt)		—		Comments		Field Blank		Sample Depth		—		Sp. Conductance (umho/cm)	
Field ID		Field Blank		Date		6/6/18		Time		11:45		Bottle Group(s)	
WIN/STORET #		Blank_0606018		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		—		Total Res. Chlorine	
Latitude		30.5193		Longitude		-84.3357		Temp (C)		—		pH	
Salinity (ppt)		—		Comments		Field Blank		Sample Depth		—		Sp. Conductance (umho/cm)	
Field ID		Field Blank		Date		6/6/18		Time		11:45		Bottle Group(s)	
WIN/STORET #		Blank_0606018		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		—		Total Res. Chlorine	
Latitude		30.5193		Longitude		-84.3357		Temp (C)		—		pH	
Salinity (ppt)		—		Comments		Field Blank		Sample Depth		—		Sp. Conductance (umho/cm)	
Field ID		Field Blank		Date		6/6/18		Time		11:45		Bottle Group(s)	
WIN/STORET #		Blank_0606018		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		—		Total Res. Chlorine	
Latitude		30.5193		Longitude		-84.3357		Temp (C)		—		pH	
Salinity (ppt)		—		Comments		Field Blank		Sample Depth		—		Sp. Conductance (umho/cm)	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	6/6/18	Delivered	4	[Signature]	6/6/18 1418

Group: A	Bottle Type: P-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
ECOLI-18QT					
Group: A	Bottle Type: P-500ML	# of Bottles: 9	Preservative: HNO3	Enter Number of Bottles Sent to Lab	6
			<i>Nitric Acid</i> <i>7341010</i> <i>ex. 12/7/18</i>		
W-ICP W-ICPMS					
Group: A	Bottle Type: P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
			<i>Sulfuric Acid</i> <i>7341020</i> <i>ex. 12/7/18</i>		
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 9	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	6
W-PO4-F					
Group: B	Bottle Type: QPCR-P-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
PCR-FILTER					
Group: B	Bottle Type: BG-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
W-E8321-DI W-E8321-MS					
Group: C	Bottle Type: QPCR-P-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
PCR-FILTER					
Group: C	Bottle Type: BG-500ML	# of Bottles: 1	Preservative: CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1

Group: C	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative: CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: D	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1

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

PH

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

Meter ID: Biology #2

RQ: 2018-06-04-38

Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(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 _____

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	6/6/18	0701	21.81	8.777	8.78	100%	33.9	—	P / F	L / F
ICV	Blake Spencer	6/6/18	0703	21.80	8.777	8.78	100%	33.9	—	P / F	L / F
CCV	Blake Spencer	6/6/18	1459	22.85	8.595	8.72	102.4	34.9	—	P / F	L / F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

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

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

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	6/6/18	0704	171005A	10/2018	1000	1000	P / F	L / F
ICV	Blake Spencer	6/6/18	0705	171005A	10/2018	1000	1001	P / F	L / F
CCV	Blake Spencer	6/6/18	1452	180326A	04/2019	100	103	P / F	L / F
CCV								P / F	L / F

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	6/6/18	0715	171005B	04/2019	7.0	7.00	-9.4	P / F	L / F
Calibr.	Blake Spencer	6/6/18	0721	171005A	10/2018	4.0	4.00	164.6	P / F	L / F
Calibr.	Blake Spencer	6/6/18	0727	171005C	04/2019	10.0	9.99	-176.6	P / F	L / F
ICV	Blake Spencer	6/6/18	0729	171005C	04/2019	10.0	9.98	-176.5	P / F	L / F
CCV	Blake Spencer	6/6/18	1455	171005A	10/2018	4.0	3.71	180.4	P / F	L / F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 186, slope from 4 to 7 155.2 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: