



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: East Pittman Creek Upstream of HWY 179 Date: 12/14/2021
WIN/Field ID: G3NW0157 WBID: 55 ENR: Latitude: 30.95087
County: HOLMES Org ID: 21FLPNS Longitude: -85.812198
Receiving Body of Water: - RQ- 2021-12-06-15

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Christopher Stopher Slade			x		
☒	Nathan Mulkey	x	x		x	
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# 154179 (PRODSS)			
Photos: No	Flow: FLOW	Tide:	Tide Times: High: Low						
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:									
SBIO ID Numbers: SBIO Visit ID 83557. HA ID 17117. RPS ID 9822. Macro ID 12025									
Notes:									

Duplicate Sample

Time Zone: <u>CEN</u>	Time: _____	Field ID: <u>N/A</u>	(WIN ID_DUP)
WIN DMT Activity ID: _____			

Blank

Time Zone: _____	Time: _____	Field ID: _____	(Blank Type_DDDMMYYY)
DI Source: _____	Location: _____		
DI Type: _____	Equipment ID: _____		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: 2295415 WIN Import ID: _____
Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-12-06-15
Customer: WQAP
Project ID: SMP

Collected By: Christopher Stopher Slade, Nathan Mulkey
Field Report Prepared By: Christopher Stopher Slade
Sampling Agency: FDEP

Place Label Here						Comments: Microbiology sample(s) submitted to contract laboratory				
WIN ID/Field ID:										
		G3NW0157								
Location:		East Pittman Creek Upstream of HWY 179								
Matrix: Fresh						(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
	1230 CEN	9.29	92	15.5	6.11	0.2	0.4 ☒ VOB (S)	0.4	43.2	0.02
12/14/2021										
	CEN									
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	A
		Lot # 03531100		Exp: 1/11/22						
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A
		Lot # 0344060		Exp: 1/4/22						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A
		Filter Lot #								
		Syringe Lot #								
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC		Formalin Lot # -		☒ Formalin			2	B
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci ☒ Contract Lab				☒ Ice			1	A
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice				
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI	☒ W-E8321-MS	☒ W-PSNP-TQ	☐ W-CT-CL-R	☒ Ice		3	A	
Phytoplankton/Periphyton		☐ W-PCL-TQ-R	☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ DTY-QN-C	☐ PKD-QN-BV	☐ Ice				
Name: Christopher Stopher Slade Nathan Mulkey						Signature:			Date:	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name East Peteman Creek
Field ID G3NW0157 Storet G3NW0157
Visit ID 83557
RPS ID 9822
Macro ID 12025
HA ID 17117

Date: 12/14/2021
Project: Smp
RQ: 2021-12006-15
LIMS ID: 2295415
WBD 55

☐ LVI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial JS

☒ Date and Initial QA: 12/21/21 FB

☒ RPS entered in SBIO Initial SS

☒ Date and Initial QA: 12/21/21 FB

☒ LVI entered in SBIO Initial BS

☒ Date and Initial QA: 12/21/21 FB

☐ < 2 m² vegetation

☒ Plants getting verified

Date submitted: _____

☒ Plants verified

Date returned: In House

☒ RPS authorized in SBIO

☒ Date and Initial: 12/21/21 FB

☒ RPS score: 0.0

☒ VPDB authorized in SBIO

☒ Date and Initial: 12/21/21 FB

☒ VPDB score: FLEPP 9.09, ANS CEC 7.63

☒ SCI complete: W Broome
3/08/2022

SCI Score: 73

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

SAMPLE ID 83557 ORG ID Q1FLPNS LATITUDE 30.9509156
 COUNTY Holmes STORET # G3NW0157 LONGITUDE -85.81223
 DATE 12/14/20 TIME 1230 SAMPLING AGENCY FDEP NWROC
 SITE NAME East Pittman Creek upstream of HWY 179
 FIELD ID/NAME G3NW0157 RECEIVING BODY OF WATER Choctawhatchee R

RIPARIAN ZONE / STREAM FEATURES

Line ID 2095415

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐								Landscape Development Intensity Index (LDI) <u>N/A</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>55m</u> <u>6.5</u> m wide <u>0.3</u> m/s				
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>5-6</u>				
High Water Mark: <u>0.3</u> + <u>1.2</u> = <u>1.5</u> (m) (above present water level) (present depth) (above bed) <u>0.4</u> <u>0.7</u>				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 ☐																																	
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon		WATER QUALITY <table border="1"> <thead> <tr> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top: <u>0.2</u></td> <td><u>15.5</u></td> <td><u>6.11</u></td> <td><u>7.29</u></td> <td><u>920</u></td> <td><u>43.2</u></td> <td><u>0.02</u></td> <td><u>0.4</u></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TOTAL DEPTH <u>0.4</u></td> </tr> </tbody> </table>				Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top: <u>0.2</u>	<u>15.5</u>	<u>6.11</u>	<u>7.29</u>	<u>920</u>	<u>43.2</u>	<u>0.02</u>	<u>0.4</u>	Mid:							☒ VOB	Bottom:							TOTAL DEPTH <u>0.4</u>
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Mid:							☒ VOB																														
Bottom:							TOTAL DEPTH <u>0.4</u>																														
Woody Debris (Snags) <u>8.22</u> <u>4</u> Undercut Banks / Roots <u>0.85</u> <u>4</u> Leaf Packs or Mat <u>0.73</u> <u>4</u> Aquatic Vegetation <u>0.4</u> <u>4</u> Rock or Shell Rubble.. <u>89.8</u> <u>4</u> Sand..... <u>4</u> Mud / Muck / Silt Other Other		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: Exp:		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: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																					
SAMPLING TEAM <u>S. Slade N. Mulkey</u>		SIGNATURE: <u>[Signature]</u>		DATE: <u>12/14/21</u>																																	

Stream/River Habitat Sketch Sheet, Form FD 9000-4 (June 1, 2001)

Length of grid represents 100 m of stream (not linear meters).

(Horizontal scale is double vertical scale, draw proportionately).

STORET: G3NW0157
 Location: EAST PITTMAN CR
UPSTREAM of HWY 179
 Project: Smp
 Sampled By: S. Slade
 Date: 12/14/21

100	BF		Snag 4.1
↓ %S			Root 0.2
↓ Vg			LP 0.3+0.2
90	BF		Plant 0.1
↓ %S			OTR
↓ Vg			Snag 6
80	BF		Root 0.2
↓ %S			LP 1.4+0.3
↓ Vg			Plant 0.1
70	BF		OTR
↓ %S			Snag 2.2
↓ Vg			Root 0.3
60	BF		LP 0.2
↓ %S			Plant 0.1
↓ Vg			OTR
50	BF		Snag 30.
↓ %S			Root 1
↓ Vg			LP 0.4
40	BF		Plant 0.1
↓ %S			OTR
↓ Vg			Snag 2
30	BF		Root 2.0
↓ %S			LP 0.4
↓ Vg			Plant 0.5
20	BF		OTR
↓ %S			Snag 1
↓ Vg			Root 0.5
10	BF		LP 0.2
↓ %S			Plant 0.3
↓ Vg			OTR
Left Bank			Snag 0.1
			Root 0.1+0.4
			LP
			Plant 0.8
			OTR 0
			Snag 1.2
			Root 0.8
			LP
			Plant 0.1
			OTR
			Snag 8+1
			Root 0.3+0.1
			LP 0.6
			Plant
			OTR

Depth 0.2	Width 7.5
Depth 0.15	Width 6.5
Depth 0.3	Width 7.5
Depth 0.3	Width 7.5
Depth 0.4	Width 9.5
Depth 0.3	Width 6.5
Depth 0.3	Width 6.6
Depth 0.3	Width 7.5
Depth 0.3	Width 7.5
Depth 0.3	Width 7.5
Depth 0.3	Width 7.5

Substrates: Code key, draw proportionate habitat abundance.

☒	Snags	58.7 m ²
☒	Roots/undercut banks	8.22
☒	Leaf Packs (or mats)	6.1 m ²
☒	Macrophytes	0.95
☐		5.2 m ²
☐		0.79
☐		31 m ²
☐		0.4%
☐		714 m ²

Velocity: _____
 Note where velocity measures were taken: _____ m

Habitat Smothering: _____
 Note areas (on map) where sand or silt is something substrates, limiting habitability.

Bank Stability: _____
 Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width: _____
 Note areas (on map) where natural vegetation is altered or eliminated.

Average width 7.14 m
 Average depth 0.32 m
 WQ & chemistry taken @ _____ m
 0 m Latt. 30.95086
 0 m Long. 85.81223
 100 m Latt 30.951264
 100 m Long -85.811478

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

SAMPLING AGENCY: FDEP NW Roc		STORET STATION NUMBER: G3NW0157	DATE (MM/DD/YY): 12/14/21	RECEIVING BODY OF WATER: Chocomahee R
REMARKS: WBID 55	COUNTY: Holmes	LOCATION: EAST RITMAN CR	FIELD ID/NAME: G3NW0157	

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>20</u>	(20) 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>8</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 3 2 1
Water Velocity <u>20</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>17</u> ----- Primary Score <u>65</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 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>15</u>	20 19 18 17 16	(15) 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>9</u> Left Bank <u>7</u>	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>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation > 12 to 18 m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>5</u> Left Bank <u>5</u> ----- Secondary Score <u>61</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

126 TOTAL SCORE

Date: <u>12/14/21</u>	Analyst: <u>S. Stadel</u>	Signature: <u>Sophia Stadel</u>
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SBIO ID 83557 HA ID 17117

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: East Pittman Cr. upstream 179 County: Holmes Date: 12/14/21 Investigators: S.S. Wade

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			60	1	N			
	2					2				
	3					3				
	4					4				
	5			86		5			42	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			76		5			68	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			40 64		5			45	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			85		5			90	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			92		5			62	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
50	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. 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%.					
	2									
	3									
	4									
	5			75						
	6									
	7									
	8									
	9	N								

STORET Station Number: G3NW0157

Secchi depth 0.4
Estimated?

points ranked 4-6 6
total points assessed
% points ranked 4-6 0

Check accompanying data collected at same site/date.
Algal mat sample
Linear Veg Survey /
Habitat Assessment /
SCI/Biorecon /
Water sample /
RQ- 2101-12-06-15

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

RPS SB10 9822
SBY.S. + TD 83557
RPS for D. V

[illegible]