

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

77643

ORG ID 21FLWQSP

LATITUDE N 30.12828

STORET # TAY15ROCO1

LONGITUDE W - 83.64534

TIME 1315

SAMPLING AGENCY DEP/DEAR/AEQA

NAME Rocky Creek @ Wood Cr Rd

ID/NAME Rocky Creek @ Wood Cr Rd

RECEIVING BODY OF WATER Fenholloway River

RIPARIAN ZONE / STREAM FEATURES

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)

1.6

Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side

Left Bank: 718 Right Bank: 718

Hydrologic Modification Score (per FT 3101)

1-2

High Water Mark: 1.0 + 1.0 = 2.0

(m) (above present water level) (present depth) (above bed)

Artificially Impounded

☐ Yes ☒ No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect

0.2 m/s 0.25 m/s 0.2 m/s

0.3 m deep 1.0 m deep 0.4 m deep

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): IN PLACES

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

% Coverage INVERT # Times Sampled PERI # Times Sampled

Woody Debris (Snags) 4 5

Undercut Banks / Roots 2 5

Leaf Packs or Mat 1 3

Aquatic Vegetation

Rock or Shell Rubble 14 6

Sand 45 1

Mud / Muck / Silt 25

Other

Other

WATER QUALITY

Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)

Top: 0.1 21.1 7.4 5.29 59.4 180.2

Mid:

Bottom:

Meter ID:

1483

TOTAL DEPTH

1m

Water Odors Normal ☒ Petroleum ☐

Sewage ☐ Chemical ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☒ Yes ☐ No

Lot Number: Exp:

Algae Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☐ No

Lot Number: Exp:

Water Surface Oils Normal ☒ Sheen ☐

Globs ☐ Slick ☐ Other ☐

Color Tannic ☒ Green (Algae) ☐

Clear ☐ Other (Specify) ☐

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:

changed batteries 4/31
some anaerobic sediment
I qualify conductivity

☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM

J Jackson, A O'Neal, S Panek, J Storrs

SIGNATURE:

J A Jackson

DATE:

5-2-17

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

SAMPLING AGENCY: DEP/DEAR/AEQA		STORET STATION NUMBER: TAY15 ROC01	DATE (MM/DD/YY): 5/2/17	RECEIVING BODY OF WATER: Fenholloway R.
REMARKS: 14581	COUNTY: Taylor	LOCATION: Rocky Creek @ Nooks Cr. Rd.		FIELD ID/NAME: Rocky Wcl 5 Rd

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 14	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 13	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 10	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 11	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. 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 1
Artificial Channelization 16	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
Bank Stability	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 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 Buffer Zone Width	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
Riparian Zone Vegetation Quality	TOTAL SCORE 13 127 125			

Secondary Score 33	Analyst: Joy Jackson	Signature: <i>JT Jackson</i>
Date: 5.2.17		

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Rocky Creek @ Woods Cr. Taylor</u>					County: <u>Taylor</u>		Date: <u>5/2/17</u>		Investigators: <u>J. Storrs, S. Panek</u>		
STORET Station Number: <u>TAY15ROCO1</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			60	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N	✓			4	N	✓	
	5	N	✓	96		5	N	✓	96
	6	N	✓			6	N	✓	
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
10	1	N			70	1	N	✓	
	2	N				2	N	✓	
	3	N				3	N	✓	
	4	N	✓			4	N	✓	
	5	N	✓	96		5	N	✓	96
	6	N	✓			6	N	✓	
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
20	1	N			80	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N	✓			4	N	✓	80
	5	N	✓	96		5	N	✓	96
	6	N	✓			6	N	✓	
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
30	1	N			90	1	N	✓	
	2	N				2	N	✓	
	3	N				3	N	✓	
	4	N	✓			4	N	✓	
	5	N	✓	96		5	N	✓	92
	6	N	✓			6	N	✓	
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
40	1	N			100	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N	✓			4	N	✓	
	5	N	✓	96		5	N	✓	88
	6	N	✓			6	N	✓	
	7	N				7	N		
	8	N				8	N		
	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	N							
	3	N							
	4	N	✓						
	5	N	✓	96					
	6	N	✓						
	7	N							
	8	N							
	9	N							

Secchi depth	<u>0.3</u>
Estimated?	☒

# 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- <u>2017-05-01-64</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

Waterbody: <u>Rocky Creek</u>	Date: <u>5/2/17</u>	County: <u>Taylor</u>	Storet Number:
Analyst:	Signature: <u>JA</u>		
Comments: <u>less than 2m2</u>			

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]

SITE NAME: Rocky Cr @ Wood Cr Rd DATE: 5/2/17 TIME 1315 (military) EST. CST DEPTH^A: 1 ft m FIELD ID: RockyWDRDS

SAMPLING TEAM MEMBERS	WQ MEASUREMENTS	DOCUMENTATION	SAMPLE COLLECTION	PRESERVATION	PRESERVATION CHECK
Sarah Panek - sci					
Jay Jackson - RPS					
Ashley O'Neal - Ht					
Jason Storrs - sci					

SAMPLING EQUIPMENT	
☒ Sample Container	☐ Tubing type: _____
☐ Pole	☐ Other: _____
☐ Pump ID#: _____	☐ Other: _____
WATER QUALITY MEASUREMENTS	
Instrument ID: <u>1483</u>	
COLLECTION MODE	
☒ Wading	☒ Via Boat
☐ Diving	☐ Canoe
☐ From Shore	☐ Electric Motor
☐ Other: _____	☐ Gasoline Motor

Parameter Suite	Parameter(s)/Method	Matrix Code ^e	Preservation ^{**}	Preservative Lot #	pH Check	# Bottles ***
Preserved Nutrients	☒ TKN ☒ TP ☒ NO _x ☒ NH ₃ ☒ TOC ☐ Total N ☐ Other: _____	<u>S</u> W	☒ Ice ☒ H ₂ SO ₄	<u>6302030</u>	☒ <2	<u>1</u>
Filtered Nutrients	☐ oP ☐ Other: _____	W	☐ Ice ☐ .45 um Filter			
Unpreserved Nutrients	☐ NO ₂ ☐ NO ₃ ☐ SO ₄ ☐ Other: _____	W	☐ Ice			
Physical/Aggregate Properties	☒ TDS ☒ TSS ☐ TS ☐ Turbidity ☐ Alk ☐ Color ☐ Other: _____	<u>S</u> W	☒ Ice			<u>1</u>
Chlorophyll	☒ CHL-PPTN-W	<u>S</u> W	☒ Ice			<u>1</u>
BOD	☐ BOD-INHB ☐ BOD-UNIN	W	☐ Ice			
Microbiology	MF: ☐ E coli ☐ T Coli ☐ F Coli ☐ Entero ☐ F Strep	W	☐ Ice			
Macroinvertebrates	☒ MI-FW-QLDC ☐ MI-FW-QLBR ☐ MI-FW-QNNC ☐ MI-MN-QNNC	<u>S</u> W	☒ Formalin			<u>3</u>
Phytoplankton	☐ PKD-QN-C ☐ DTY-QN-C	W	☐ Lugol's			
Periphyton	☐ PRN-QL-C ☐ DTM-QL-C ☐ PRN-QN-C ☐ DTM-QN-C	W	☐ Formalin			
AGP	☐ AA-AGP ☐ AA-LIM-NUT	W	☐ Ice			
Metals	☒ W-ICP ☐ W-FIAS ☐ W-ICPMS ☐ W-ICP-Tr	<u>S</u> W	☒ HNO ₃	<u>6253070</u>	☒ <2	<u>1</u>
Filtered Metals	☐ W-ICP-F ☐ W-FIAS-F ☐ W-ICPMS-F ☐ W-ICP-Tr-F	W	☐ HNO ₃ ☐ .45 um Filter		☐ <2	
Mercury	☐ W-HG-AF	W				
Base/Neutral / Acid Extractable	☐ W-BNA ☐ W-AE ☐ W-BN ☐ W-PAH ☐ W-FL-PRO ☐ W ☐ Other: _____	W	☐ Ice			
Pesticides	☐ W-PEST-CL ☐ W-PCB ☐ W-PEST-NP ☐ W-PSCL-PCB ☐ W-NP-AA-SF ☐ W-PC-AA-SF ☐ W-PSHRB-NP ☐ W-SLFN-UREA ☐ W-SULFN-LC ☐ Other: _____ ☐ W-ACIDHERB ☐ W-CARB	W	☐ Ice ☐ H ₂ SO ₄		☐ <2	
Purgeables	☐ W-VOC-MS ☐ W-VOC-MS-A	W	☐ Ice ☐ MCAA			
Bioassay	Specify Test: _____	W	☐ Ice			
OTHER	<u>W-SUC-AA-R W-AHERB-AA</u> <u>W-UHERB-AA</u>	<u>S</u> W	☐ Other: <u>ICC</u>			<u>1</u>

 Notes: Bromide, chloride, fluoride, sulfate ions also in phys/agg
PCR-HF183- ICC - 1 bottle

Use one line for each set of sample (as supplied by the laboratory) containers. Use separate sheet for field or laboratory duplicate or blank or different water depth

^AEnter "S" for surface if collected at a depth less than or equal to 1 foot

^eMatrix Codes (Insert prefix): SW = Surface Water GW = Groundwater DW = Drinking Water WW = Wastewater O = Other: _____

^{**}PRESERVATIVES: 1 ml added unless otherwise noted

^{***}Enter number of containers supplied by the laboratory for the test (e.g., 3 for volatile organics, etc.)

DEP Bureau of Laboratories Water Sample Collection Record

(Use with FDEP SOP-001/01 Form FD 9000-3 Physical/Chemical Characterization Field Sheet)

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Customer: BSSP

Requester: Sarah Panek

Field Report Prepared By:

Sarah Parker

Project ID: SCIREF

Collected By:

Sampling Agency:

FDEP/DEAR/AEQA

Location		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date		☒ Eastern	Composite end		Bottle												
Field ID		☒ Grab	Date	Time	Time	Central	Date	Time	Total Res.	Chlorine	Group(s)												
STEIN HATCHER RIVER @ CANAL RD.												(See pg 2)											
STEIN CANAL		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		5.71	☒ mg/L	Total Res.	Chlorine	A, B											
STORET #		Temp		22.5		pH		7.12		Sample Depth		0.3	☒ ft	Sp. Conductance	(umho/cm)	197.5							
29.8288		☐ dms	☒ dms	-83.30847		☐ dms	☒ dms	Salinity (ppt)		Comments													
Location		Rocky cr. @ Woods Cr. Rd.		☐ Comp		Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle												
Field ID		Rocky wds wds RD		☒ Grab		Date 5/2/17		Time 1315	Central	Date	Time	Group(s)											
STORET #		TAY15 R0001		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		5.29	☒ mg/L	Total Res.	Chlorine	59.4%		☒ % sat	(mg/L)	180.2					
Latitude		☒ dd	☐ dms	Longitude		-83.64534	☒ dd	☐ dms	Temp		21.1		pH		7.4		Sample Depth		0.1	☒ ft	Sp. Conductance	(umho/cm)	180.2
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm)	197.5				
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm)	197.5				
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm)	197.5				
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm)	197.5				
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm)	197.5				
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm)	197.5				
Location		☐ Comp		Collection (comp begin or grab)		☐ Grab		Date		Time	Eastern	Central	Date	Time	Bottle		Group(s)						
STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Temp		(C)		pH		Sample Depth		Diss. Oxygen		59.4%		☒ % sat	(mg/L)	Total Res.		Chlorine			
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)		Comments		Sample Depth		0.3		☒ ft	Sp. Conductance	(umho/cm					

Requisitioned By

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Stirling Road May 3, 2017
9:18

hard delivery

Received by: Tyler Reynolds Date/Time 05/13/17

9:18a