



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes No

WIN Station Name: Big Escambia Creek downstream of Fannie Rd

Date: 7/1/2020
(mm/dd/yyyy)

WIN/ Field ID: G4NW0421

WBID: 10

Latitude: 30.98369

(Decimal Degrees)

County: Escambia

ORG ID: 21FLPNS

Longitude: 87.23347

(Decimal Degrees)

Receiving Body of Water: Escambia River

RQ-2020- 06-29-43

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment	
						☒ Sample Container	☐ Van Dorn
FB MC	☒	☒	☒	☒	☒	☒ Syringe	☐ Pole
	☐	☐	☐	☐	☐	☐ Dipper	☐ Other
	Depth Measured with <u>Pross</u> Equipment ID <u>154179</u>						
						Collection Method	
						☒ Wading	☐ Canoe/Kayak
						☐ From Shore	☐ Electric Motor
						☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled <u>Low</u> / Normal / High / Flooded		Meter ID# <u>154179</u>	
Photos: Yes <u>X</u> No	Flow: No Flow / <u>Flowing</u> / NA	Tide: Rising/ Falling/ Slack/ <u>NA</u>	Tide Times: High Low
Biological Samples Collected: <u>None</u> <u>HA</u> <u>SCI</u> <u>RPS</u> Algae ID <u>LVS</u> LVI Other:			
SBIO ID Numbers:	SBIO-ID: <u>B1133</u>	HA-ID: <u>16627</u>	RPS-ID: Macrophyte-ID: LIMS#:
Notes:			

Duplicate Sample

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

Blank

Time Zone: <u>EST</u> <u>CEN</u> Time:	Field ID: (Blank Type_DDMMYYYY)
DI Source:	Location:
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank	Equipment ID:

Signature: <u>[Signature]</u>	Date: <u>7/1/20</u>
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LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2020-06-29-43

Customer: FL DEP

Project ID: SMP

Collected By: Myra Clark

Field Report Prepared By: F. Butera

Sampling Agency: FL DEP NWROC

Field/WIN ID → Location: G4NW0421 Big Escambia Creek downstream of Fannie Rd						Comments:				
Matrix: ☒ Fresh / ☐ Marine						(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 (PPTth)
7/1/20	10:50 EST CST	8.13	101.2	26.6	6.36	0.1	0.2 VOB (S)	0.2	32.8	0.01
Cental Lab please use top row for login purposes										
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 #	SA9354050		Exp:	12/20/2020				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☐ W-HARD				☒ Ice ☒ HNO3* ☒ <2			1	A
		Lot #	NA9354050		Exp:	12/20/2020				
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A
		Filter Lot #	16953247		Exp:					
		Syringe Lot #	9029998		Exp:					
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / 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				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci				☒ 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 ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				☒ Ice			5	A
						☐ Ice				
Relinquished By:		Date/Time		Shipping Method		Number of Coolers Shipped:		Received By:		Date/Time:
FB		7/01/2020		Fed Ex		2				

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Email Submittal form to : lab.receiving@floridadep.gov.

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

SAMPLE ID 8133 ORG ID 21FLPNS LATITUDE 30.98369
 COUNTY Escambia WIN ID/STORET # G4W0421 LONGITUDE 87.23347
 DATE 07-01-2020 TIME 10:50 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Big Escambia Ck. downstream Fannick Rd RQ-2020- 06-29-43
 FIELD ID/NAME G4W0421 RECEIVING BODY OF WATER Escambia R. WBID 14 Project: SMP

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2180537

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) 1.41 (USDA 2013) <u>1.3</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 27 m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: 1 Right Bank: 0		Hydrologic Modification Score (per FT 3101) 3-4		0.25 m/s 0.33 m/s 0.25 m/s			
High Water Mark: 1.0 + 1.5 = 2.5 (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%)			
1.6 m deep 0.8 m deep 1.0 m deep							

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 Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: 0.1 26.6 6.36 8.13 101.2 32.8 0.01 0.2 Mid: X VOB Bottom: TOTAL DEPTH Meter ID: 154179 43-65 0.2		
Woody Debris (Snags) 3.0 7 Undercut Banks / Roots 0.1 2 Leaf Packs or Mat 0.01 1 Aquatic Vegetation 0.01 Rock or Shell Rubble.. Sand..... 96% 6 Mud / Muck / Silt Other Gravel..... 4 Other		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 ☐ Globbs ☐ 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: <u>Lot of Litter</u> <u>LDI - N/A</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.		
SAMPLING TEAM: Frank Butera, Myranda Clarke			SIGNATURE: 		DATE: 07/01/2020

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

SB10 IDg1133

WIN ID: G4NLW0421

Depth (m)	BF	%S	Vg	Snag	Root	LP	Plant	O.
100								
90								
80								
70								
60								
50								
40								
30								
20								
10								
0 m								

Substrates: Code key, draw proportionate habitat abundance	
	Snags
	Roots
	Leaf Packs
	Plants
	total # observed Pools. Total # expect
Velocity: 33 m/s 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 27 m
Average depth .8 m
WQ & chemistry 20 m

Project. SMP
Sampled By/Date: MC/EB
07-a-2024

0 m Latt.

0 m Long.

100 m Latt

100 m Long

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 9+2	Bankfull	Bankfull
0m width (m)	Root 1m	-	+
10m width	Leaf -	Slope	Slope
Max Depth	Veg -	-	+
Avg. Depth	Gravel 1.5m	Veg +	Veg +
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2m+5	Bankfull	Bankfull
20m width	Root .1	-	+
	Leaf -	Slope	Slope
Max Depth	Veg -	-	+
Avg. Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6+2	Bankfull	Bankfull
30m width	Root .1	-	+
	Leaf -	Slope	Slope
Max Depth	Veg -	-	+
Avg. Depth	Gravel .1	Veg -	Veg -
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6+4+1	Bankfull	Bankfull
40m width	Root -	-	+
	Leaf .1	Slope	Slope
Max Depth	Veg .1	-	+
Avg. Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	-	-
Rip. Buff R	Clay 3m	Other	Other

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6	Bankfull	Bankfull
50m width	Root .1	-	+
	Leaf -	Slope	Slope
Max Depth	Veg	-	+
Avg. Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 15.5	Bankfull	Bankfull
60m width	Root .5	-	+
	Leaf -	Slope	Slope
Max Depth	Veg	-	+
Avg. Depth	Gravel	Veg >	Veg -
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.5	Bankfull	Bankfull
70m width	Root -	-	+
	Leaf -	Slope	Slope
Max Depth	Veg	-	+
Avg. Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 8+2+5	Bankfull	Bankfull
80m width	Root .5	-	+
	Leaf -	Slope	Slope
Max Depth	Veg	-	+
Avg. Depth	Gravel	Veg +	Veg -
Rip. Buff L	Rock	+	-
Rip. Buff R	Other	Other	Other

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 5	Bankfull	Bankfull
90m width	Root .5	-	+
	Leaf -	Slope	Slope
Max Depth	Veg	-	+
Avg. Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 17+5	Bankfull	Bankfull
100m width	Root -	-	+
	Leaf -	Slope	Slope
Max Depth	Veg	-	+
Avg. Depth	Gravel .2	Veg -	Veg -
Rip. Buff L	Rock	-	-
Rip. Buff R	Other	Other	Other

Station Name

Big Escambia Ck

Storet: G4NW0421

Date 07-01-2024

GPS Coordinates

0 meter

100 meter

Water Quality Measured at

Stream Velocity and location.

0.33 m/s 20 meter mark

Number of Pools & Location 35/m

Silt smothering @

Sand Smothering @

Algae Smothering @

Degraded Banks @

0700

Total Habitat	Sq. Meters	Percent
Snags	43	8.0
Roots	2.3	0.1
Leaf	.1	0.01
Veg	.1	0.01
Rock		
Gravel		
Sand	96.88	
Other		
Other		
Sum 1° Habitat		

Notes:

43

83

19
x1.5

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

SAMPLING AGENCY: 21FLPNS		STORET STATION NUMBER: 64NW0421	DATE (MM/DD/YY): 07/01/20	RECEIVING BODY OF WATER: Escambia R.
REMARKS:	COUNTY: Escambia	LOCATION: Creek down Fannie Rd	FIELD ID/NAME: 64NW0421	
WBID 10				

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>2</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 <u>2</u> 1
Substrate Availability <u>2</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 <u>13</u> 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 <u>2</u> 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 <u>20</u> 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>3</u> Primary Score <u>27</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 <u>2</u> 1
Secondary Habitat Components Artificial Channelization <u>3</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 <u>8</u> 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
Bank Stability Right Bank <u>8</u> Left Bank <u>1</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. <u>8</u> 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 <u>1</u>
Riparian Buffer Zone Width Right Bank <u>4</u> Left Bank <u>5</u>	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 <u>5</u> <u>4</u>	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>1</u> Left Bank <u>2</u> Secondary Score <u>29</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 <u>2</u> <u>1</u>

56

TOTAL SCORE

Date: <u>7/1/20</u>	Analyst: <u>Myranda Clark</u>	Signature: <u>[Signature]</u>
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SBIO ID: 81133

HA ID: 16627

Project: SMP

RQ-2020-06-29-43

62-160.800, F.A.C.

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Big Escambia Ch down from or Fannie Rd

County: Escambia

Date: 7/01/2020

Investigators: F. B. Luter

STORET Station Number: 64NWD421

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	3 3	NO	0	60	1	N	NO	0
	2	N				2	N		
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
10	1	N	NO	0	70	1	N	NO	0
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
20	1	5	NO	0	80	1	N	NO	0
	2	5				2			
	3	N				3			
	4					4			
	5					5			
	6					6			
	7	3				7			
	8	N				8			
	9	N				9			
30	1	N	NO	0	90	1	N	NO	0
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
40	1	5	NO	0	100	1	5	NO	0
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
50	1	N	NO	0	100	1	N	NO	0
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			

Secchi depth 5 1.0
Estimated? N

points ranked 4-6 9
total points assessed 99
% points ranked 4-6 10

Check accompanying data collected at same site/date.
Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☒
Water sample ☒
RQ-2020-4629-43

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 Visit ID. 8133

RPS Visit ID. 9577

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%.

GYNW 0421

Storet Number: ~~6402002~~

Signature: 

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]

VPDB ID 2/A

Revision Date: March 1, 2014