



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	Wilder Branch downstream of road crossing				Sample Date:	4/26/2023	
WIN / Field ID:	G4NW0038	ORG ID:	21FLPNS	ENR:	Latitude:		30.71769
County:	Escambia	WBID:	326	STREAM	Longitude:		-87.31804
Receiving Body of Water:	Escambia River				RQ-	2023-04-24-24	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera			x		
Nathan Mulkey	x	x		x	

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
x	Syringe	Pole	
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		BFA	
Collection Method			
x	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With		Meter	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	154179 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)	
CEN	1120	0.3	0.15	8.49	97.1	22	5.98	0.3	36.5	0.02	
Biological Samples Collected:				HA LVS RPS SCI							
SBIO Visit ID: 86525				HA ID: 18276		RPS ID: 10083		Macrophyte ID: 12421		LIMS Sample ID Entered Into The Macrophyte Module: 2403655	

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli	Contract Lab	UWF	ICE			
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE			
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE			
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syringe Lot#; Filter Lot#:		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	3013020	01/25/24
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	2230040	09/01/23
Organics (LC)	W-E8321-DI	W-E8321-MS			MCAA***		
Macroinvertebrates	MI-FW-QLDC			Formalin	1234		
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise		
Molecular							
Periphyton							
Phytoplankton							
BOD							
DOC							
Other(s)					SyringeLot#	FilterLot#	
Field Comments:	/ SCI Collection Time: 1230						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	04/26/2023	Signature:					

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Save Field Sheets on Network: Migrate Data to WIN:

Site Name Wilder Branch downstream of road crossing.

Date: 04/26/2023

WIN ID G4NW0038 Field ID G4NW0038

Project: SMP / TMDL Studies

Visit ID 86525

RQ: 2023-04-24-24

RPS ID 10083

LIMS ID: 2403655

Macro ID 12421

WBID: 326

HA ID 18276

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO Initial FB

☒ Date and Initial QA: 5/22/23 JS

☒ HA entered in SBIO Initial FB

☒ Date and Initial QA: 5/22/23 JS

☒ RPS entered in SBIO Initial FB

☒ Date and Initial QA: 5/22/23 JS

☒ LVS entered in SBIO Initial FB

☒ Date and Initial QA: 5/22/23 JS

☐ < 2 m² vegetation

☒ Plants getting verified

Date submitted: In House

☒ Plants verified

Date returned: 04/26/2023 FB

☒ RPS authorized in SBIO

☒ Date and Initial: 5/22/23 -FB

☒ RPS score: 1.01

☒ Macro authorized in SBIO

☒ Date and Initial: 5/22/23 -FB

☒ LVS Score: 0.07, FLEPC 0%

☒ SCI complete: M. Hays 7/19/23

SCI Score: 84

☒ Add SBIO-ID, HA-ID, RPS-ID, MACROPHYTE-ID and LIMS# to field sheet in database

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

SAMPLE ID 86525 ORG ID 21FLPNS LATITUDE 30.71769
 COUNTY Escambia WIN ID/STORET # G4NW0038 LONGITUDE 87.31804
 DATE 04/26/2023 TIME 11:20 CTZ _____ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Wilder Branch downstream of road crossing RQ- 2023-04-24-24
 FIELD ID/NAME G4NW0038 RECEIVING BODY OF WATER: Escambia R. WBID 326 Project: SMP / TMDL Studies

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2403655

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>18m</u> <u>4.0</u> m wide <u>0.2</u> m/s <u>0.2</u> m/s <u>—</u> m/s <u>0.2</u> m deep <u>0.1</u> m deep <u>—</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>1-2</u>							
High Water Mark: <u>0.4</u> + <u>0.5</u> = <u>0.9</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

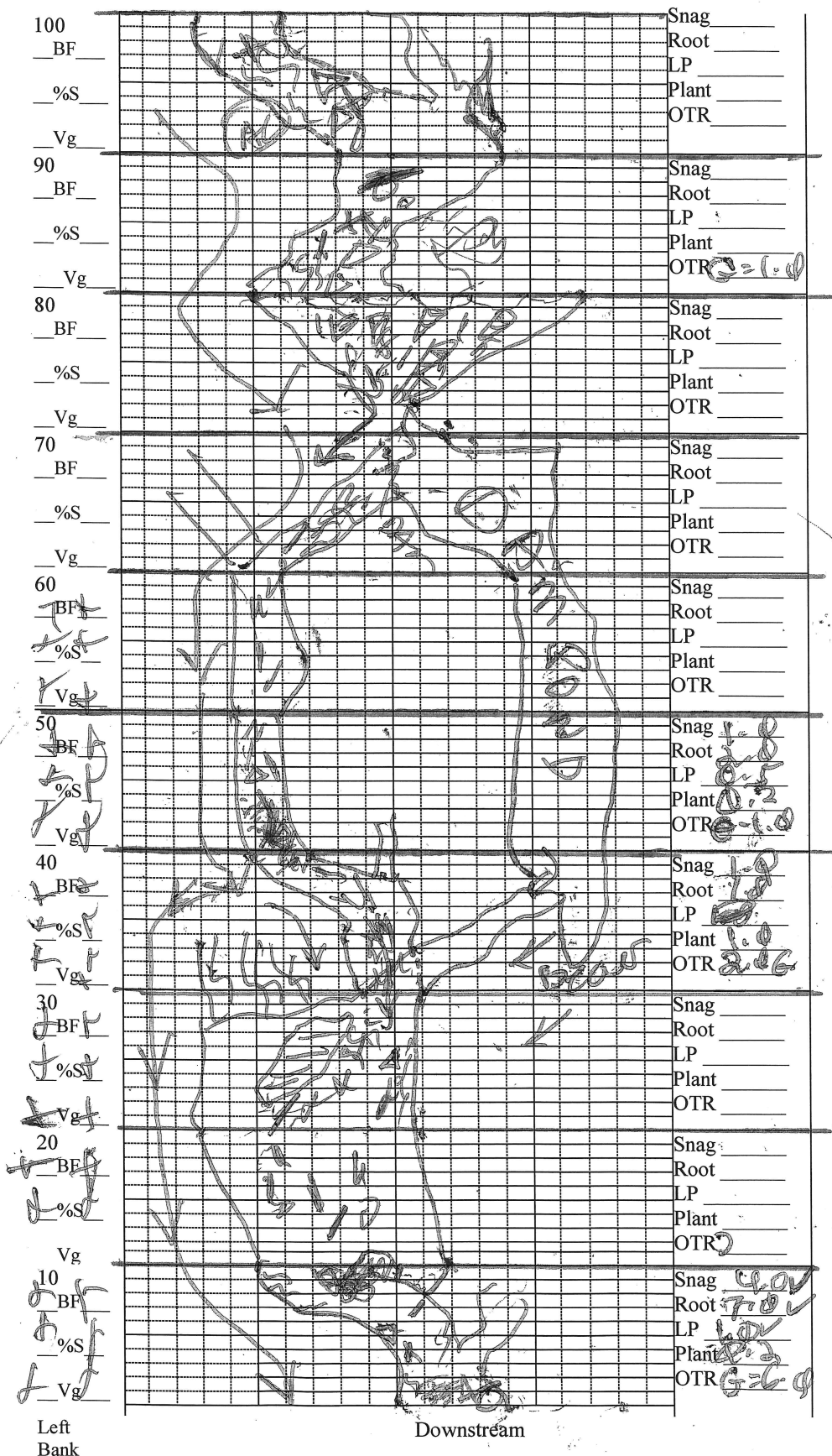
Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse	Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify) : _____	Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☒ Algae Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☒
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SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon <table border="1"> <thead> <tr> <th></th> <th>% Coverage</th> <th>INVERT # Times Sampled</th> <th>PERI # Times Sampled</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td><u>7.3</u></td> <td><u>4</u></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>9.1</u></td> <td><u>4</u></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>1.8</u></td> <td><u>4</u></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>3.5</u></td> <td><u>4</u></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble...</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand.....</td> <td><u>73.7</u></td> <td><u>2</u></td> <td></td> </tr> <tr> <td>Mud / Muck / Silt</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other <u>Gravel</u></td> <td><u>3.0</u></td> <td><u>2</u></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	<u>7.3</u>	<u>4</u>		Undercut Banks / Roots	<u>9.1</u>	<u>4</u>		Leaf Packs or Mat	<u>1.8</u>	<u>4</u>		Aquatic Vegetation	<u>3.5</u>	<u>4</u>		Rock or Shell Rubble...				Sand.....	<u>73.7</u>	<u>2</u>		Mud / Muck / Silt				Other <u>Gravel</u>	<u>3.0</u>	<u>2</u>		Other				WATER QUALITY <table border="1"> <thead> <tr> <th></th> <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 :</td> <td><u>0.15</u></td> <td><u>22</u></td> <td><u>5.98</u></td> <td><u>8.49</u></td> <td><u>97.1</u></td> <td><u>36.5</u></td> <td><u>0.02</u></td> <td><u>0.3</u></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom</td> <td><u>0.3</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>154179</u> TOTAL DEPTH <u>0.3</u>									Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top :	<u>0.15</u>	<u>22</u>	<u>5.98</u>	<u>8.49</u>	<u>97.1</u>	<u>36.5</u>	<u>0.02</u>	<u>0.3</u>	Mid:								☒ VOB	Bottom	<u>0.3</u>							
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SAMPLING TEAM: Frank Butera, Nathan Mulkey				SIGNATURE : 				DATE : <u>4/26/2023</u>																																																																															
AMBIENT FIELD CONDITIONS / NOTES: Braided. Beaver Dam "main" channel Approx. 20% of 10 habitat unavailable due to silt & Fe/Sulfur Bacteria smothering. ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																							

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).



WIN ID G4100038

Substrates: Code key,
draw proportionate habitat
abundance.



Snags



Roots/undercut banks



Leaf Packs (or mats)



Macrophytes



Gravel



Velocity: 0.2 m/s
Note where velocity
measures were taken. 18 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 2.8 m

Average depth 0.2 m

WQ & chemistry taken @ 100m

Station Name:

Wilder Br. downstream
on road crossing

Project. SMP/700 studies

Sampled By/Date: 4/26/28

0 m Latt. 30.71757

0 m Long. 87.31714

100 m Latt. 30.71766

100 m Long. 87.31796

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 4.0	Bankfull	Bankfull
0m width (m) 2.5	Root 7.0	+	+
10m width 4.0	Leaf 1.0	Slope	Slope
Avg. Depth 0.3	Veg 0.2	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si		

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
20m width 4.0	Root 3.0	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.2	Veg	+	+
Max Depth 0.5	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si		

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
30m width 2.0	Root 1.0	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth 0.3	Veg 0.1	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si		

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
40m width 3.0	Root 1.0	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth 0.2	Veg 1.0	+	+
Max Depth 0.3	Gravel 2.0	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si		

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
50m width 1.0	Root 2.0	+	+
	Leaf 0.5	Slope	Slope
Avg. Depth 0.2	Veg 1.0	+	+
Max Depth 0.3	Gravel 1.0	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si		

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.5	Bankfull	Bankfull
60m width 1.5	Root 3.0	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.1	Veg 0.1	+	+
Max Depth 0.2	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	AL, Si, Fe		

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
70m width 1.0	Root 2.0	+	+
	Leaf 0.5	Slope	Slope
Avg. Depth 0.1	Veg	+	+
Max Depth 0.1	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	AL, Si, Fe		

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.0	Bankfull	Bankfull
80m width 6.0	Root 3.0	+	+
	Leaf	Slope	Slope
Avg. Depth 0.1	Veg 4.0	+	+
Max Depth 0.3	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Si, Fe, AL		

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 5.0	Bankfull	Bankfull
90m width 3.0	Root 2.0	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.2	Veg 2.0	+	+
Max Depth 0.2	Gravel 1.0	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Si, Fe		

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
100m width 3.0	Root 8.0	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.3	Veg 4.0	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	AL, Si, Fe, P		

Station Name Willow Branch
downs from road cross

WIN-ID: G3NW0038

Date 4/20/2023

0 meter (Dec Deg)

30.71757

87.31714

100 meter (Dec Deg)

30.71766

87.31796

Water Quality Measured at

100m mark

Stream Velocity and location.

0.2 m/s 18 meter mark

Number of Pools & Location 2

C, J

High Water: 0.4m

Silt smothering @

A-J

Sand Smothering @

Algae Smothering @

F-H, J

Degraded Banks @

Fe/Sulfur Bact. @

A-J

Total Habitat	Sq. Meters	Percent
Snags	<u>20.4</u>	<u>7.3</u>
Roots	<u>25.6</u>	<u>9.1</u>
Leaf	<u>5.0</u>	<u>1.8</u>
Veg	<u>9.9</u>	<u>3.5</u>
Rock		
Gravel	<u>10.0</u>	<u>3.6</u>
Sand	<u>206.3</u>	<u>73.7</u>
Other		
Sum 1 st Habitat		<u>21.7</u>

Avg. Depth	Max. Depth	Avg. Width
<u>0.2</u>	<u>0.5</u>	<u>2.8</u>

Bank Stability Score. Left Bank 3.0 Right Bank 3.0 Category Left Bk Optimal Right Bk Optimal
Add all plus signs (Max. 30 possible) and Divide by 10. Scoring. Poor: 0.0 - 0.9 pts. Marginal: 1.0-1.9 pts. Suboptimal: 2.0 - 2.9 Optimal: 2.1 +

Notes. Extremely Braided
Beaver Dam
* Approx. 20% of 1st habitat smothered silt/Fe/Sulfur.

(4.8) = 20% of 1st habitat

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

SAMPLING AGENCY: FL DEP DEAR. NOROC 21FFCNS		STORET STATION NUMBER: G4NW0038	DATE (MM/DD/YY): 04/26/23	RECEIVING BODY OF WATER: Escambia R
REMARKS: WBID 326	COUNTY: Escambia	LOCATION: W. of Br. downtown Rd	FIELD ID/NAME: G4NW0038	

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 18	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 15 13 FB	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 14	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 12 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
Primary Score 64 58				
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 24	20 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 10 10	10 9	8 7 6	5 4	3 2 1
Left Bank 10	10 9	8 7 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 10 10	10 9	8 7 6	5 4	3 2 1
Left Bank 10	10 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 8 8	10 9	8 7 6	5 4	3 2 1
Left Bank 8	10 9	8 7 6	5 4	3 2 1
Secondary Score 76				

134 132 TOTAL SCORE

134/160 = 83.75%

132/160 = 82.5%

Date: 4/26/23	Analyst: F. Butler	Signature: [Signature]
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SBIO ID: 86525

HA ID: 18276

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Wilder Br. downstream... County: Essex Date: 4/26/2022 Investigators: F. But...

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					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N	N		70	1	N	N		
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N	N		80	1	N	N		
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N	N		90	1	N	N		
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N	N		100	1	N	N		
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	N			1	N	N		
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				

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%.

WIN-ID: 0305NW0038

Secchi depth 0.3
Estimated? 0.3

points ranked 4-6 41
total points assessed 96
% points ranked 4-6 41%

Check accompanying data collected at same site/date.

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

RQ-2023-04-24-24

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: 86525

RPS ID: 10083

RPS score
1.01

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

Waterbody: W: H v Branch Date: 10/26/2022 County: Escambia WIN-ID: G3NW0037
 Analyst: F. Butler Signature: [Signature]

Comments:

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												Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara												Panicum repens											
Cicuta maculata												Panicum rigidulum											
Cladium jamaicense												Pistia stratioides											
Colocasia esculenta												Polygonum glabra											
Commelina diffusa												Polygonum hydropiperoides											
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Sacciolepis striata											
Hydrilla verticillata												Sagittaria kurziana											
Hydrocotyle												Sagittaria lancifolia											
Hygrophila polysperma												Sagittaria latifolia											
Hymenocallis												Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus											
Lemna												Sparganium americanum											
Limnophila sessiflora												Typha											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana												<u>Rhynchospora</u>											
Ludwigia repens												<u>terrestris</u>											
Luziola fluitans												<u>Ocheirocarpha</u>											
												<u>plant</u>											
												<u>Dichromis</u>											
												<u>Scab</u>											
												<u>Echino</u>											
												<u>Echinolobos</u>											
												<u>cordifolius</u>											
If no Dominant or Co-Dominant were selected, indicate with "X"																							
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																							

Field ID: G3NW0037

RPS ID: 10483

SBIO ID: 86525

Vascular ID: 12421

LIMS ID: 2403655

CoC 7.07, FLEPPC 0%

Revision Date: March 1, 2014

Station: Wilder Branch downstream of road crossing
 GPS: 30.71769 x -87.31804
 Storet: G4NW0038 Field ID G4NW0038
 SBIO Sample ID: 86525
 Macro ID: 12421

Sampled : 04/26/2023
 Sampled By: F. Butera, N. Mulkey
 Location: Molino, Escambia Co.
 Receiving Waters: Perdido Bay
 LIMS ID: 2403655

	Taxa	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	C of C	Coll.	Verified
1	<i>Dichanthelium scabriusculum</i>										1	7.15	Y	FB Lab
2	<i>Echinodorus cordifolius</i>									1				
3	<i>Eleocharis submersed</i> (wispy viviparous)										1			
4	<i>Orontium aquaticum</i>	1	1	1	1	1	1	1	1	1	1	8.39		
5	<i>Panicum hemitomon</i>	1		1			1			1	D	5.82		
6	<i>Pontederia cordata</i>								1			5.38		
7	<i>Rhynchospora</i> sp.			1					1					
8	<i>Sparganium americanum</i>								1					
9	<i>Triadenum virginicum</i>									1		8.16		
	Total	2	1	3	1	1	2	1	4	4	4			
	Taxa per section	2	1	3	1	1	2	1	4	4	4	Herb. Taxa	9	
	Exotic Present	0	0	0	0	0	0	0	0	0	0	Woody Taxa	0	
	Avg. taxa per section	2										Ferns	0	
	sections with exotics	0										Macro Algae	0	
	Exotic Taxa	0	Exotics per Section: 0									Total Taxa	9	

* These taxa were observed fully within the stream channel.

Photo Log

Storet *GSNW0038*

Station Name: *Wilder Br.*

Date: *4/26/2023*

Samplers. *FB, N*

- 1 *N*
- 2 *E*
- 3 *S*
- 4 *W*
- 5 *Up*
- 6 *Down*
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Notes.