



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Collins Mill Creek upstream of Conecuh Street

Date: 6/20/2022

WIN/Field ID: G4NW0507

WBID: 24AC

ENR:

Latitude: 30.62589

County: SANTA ROSA

Org ID: 21FLPNS

Longitude: -87.038534

Receiving Body of Water: Blackwater River

RQ: 2022-02-21-68

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Lauren McNally	x		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:			Tide:		Tide Times: High: Low:						
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:												
SBIO ID Numbers: SBIO Vist ID 84539. RPS ID 9943. HA ID 17439												
Notes: / SCI COLLECTION TIME: 0815												

Duplicate Sample

Time Zone: CEN	Time:	Field ID:	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

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

LIMS EVENT ID: 236170

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-2022-02-21-68
Customer: NW-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Lauren McNally, Nathan Mulkey
Field Report Prepared By: Lauren McNally
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G4NW0507 Location: Collins Mill Creek upstream of Conecuh Street						Comments: Microbiology sample(s) submitted to contract laboratory. Water quality samples arrived late and past hold time..					
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 _h)	
6/20/2022	815 CEN	6.75	84.8	27.4	6.26	0.25	0.5 ☒ VOB (S)	0.5	50.5	0.05	
	CEN						Central 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 #	1308030		Exp:	12/1/22					
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☐ HNO3*		☒ <2	1	A	
		Lot #	1105100		Exp:	6/7/22					
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A	
		Filter Lot #				Syringe Lot #					
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice					
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-F / W-TSS / TURBIDITY				☐ Ice					
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☒ Formalin			1	B	
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice					
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice			1	A	
		☒ Contract Lab									
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice					
		☐ PCR-GULL2 ☐ PCR-GFD ☐									
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.			
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI		☒ WE8321-MS		☒ W-PSNP-TQ		☒ W-CT-Cl-R		5	A
		☐ W-PCL-TQ-R		☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)		☐ W-TR-SQ-R					
		☐ W-PCB-TQ-R									
Phytoplankton/Periphyton				DTY-QN-C		PKD-QN-C		☐ Ice			
Name: Lauren McNally Nathan Mulkey				Signature:				Date: 06/20/2022			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name Collins Mill Creek upstream of Conewh Street
Field ID 64NW0507 Storet 64NW0507
Visit ID 84539
RPS ID 9943
Macro ID N/A
HA ID 17439

Date: 6/20/22
Project: SMP
RO: 2022-02-21-68
LIMS ID: 236170
WBID: 24AC

☒ ~~LVI~~ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB 7/6/22 ☒ Date and Initial QA: 7/14/2022, SS

☒ RPS entered in SBIO Initial FB 7/6/22 ☒ Date and Initial QA: 7/14/2022, SS

☐ LVI entered in SBIO Initial _____ ☐ Date and Initial QA: _____

☒ < 2 m² vegetation

☐ Plants getting verified Date submitted: _____

☐ Plants verified Date returned: _____

☒ RPS authorized in SBIO ☒ Date and Initial: 7/18/2022, FB

☒ RPS score: 0.0

☐ VPDB authorized in SBIO ☐ Date and Initial: _____

☐ VPDB score: _____

☒ SCI complete: L. Homann 09/09/2022 SCI Score: 15

** water quality Qualified
samples out of hold*

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

SAMPLE ID 84539 ORG ID 21FLPNS LATITUDE 30.62583
 COUNTY Santa Rosa WIN ID/STORET # 64MW0507 LONGITUDE 87.03867
 DATE 6/20/22 TIME 0815 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Collins Mill Creek upstream of Cornish St RQ- 2022-02-21-68
 FIELD ID/NAME 64MW0507 RECEIVING BODY OF WATER Bluewater River WBID 24AC Project: SMP

RIPARIAN ZONE / STREAM FEATURES

WBID: 24AC

LIMS ID: 236170

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>5.0</u> m wide <u>0.08</u> m/s <u>0.08</u> m/s <u>0.08</u> m/s			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u><6</u> Right Bank: <u>>12</u>				Hydrologic Modification Score (per FT 3101) ☐			
High Water Mark: ☐ + ☐ = ☐ (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			WATER QUALITY							
% Coverage Woody Debris (Snags) <u>6.6</u> Undercut Banks / Roots <u>5</u> Leaf Packs or Mat <u>0.12</u> Aquatic Vegetation <u>0.6</u> Rock or Shell Rubble <u>0.6</u> Sand <u></u> Mud / Muck / Silt <u></u> Other <u></u> Other <u></u>			Depth (M) <u>0.5</u> Temp. (°C) <u>27.4</u> pH (SU) <u>6.26</u> D.O. (MG/L) <u>6.75</u> D.O. Sat (%) <u>84.8</u> Cond. (UMHO/CM) <u>50.5</u> Salinity (PPT) <u>0.05</u> SECCHI (M) <u>0.5</u>	Top: <u>0.5</u> Mid: <u></u> Bottom: <u></u> Meter ID: <u>154179</u>	Water Odors: Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u></u> Exp: <u></u> Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: <u></u> Exp: <u></u>	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: ☒ ☐ ☐ ☐	AMBIENT FIELD CONDITIONS / NOTES: <u>< 2m Vegetation</u> <u>NO LVS</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge. <u>will be qualified</u>
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SAMPLING TEAM: <u>Nathan Mulvey / Lauren McNally</u>	SIGNATURE: <u>Nathan Mulvey</u>	DATE: <u>6/20/22</u>
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DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: DEAR-NWROC. 21FLPNS <i>FD EP NW ROC</i>		STORET STATION NUMBER: <i>GHNW0507</i>	DATE (MM/DD/YY): <i>06/20/22</i>	RECEIVING BODY OF WATER: <i>Blackwater River</i>
REMARKS: WBID <i>24AC</i>	COUNTY: <i>Santa Rosa</i>	LOCATION: <i>Collins Mill Creek upstream corner</i>	FIELD ID/NAME: <i>GHNW0507</i>	

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 <i>9</i>	20 19 18 17 16	15 14 13 12 11	10 <i>9</i> 8 7 6	5 4 3 2 1
Substrate Availability <i>8</i>	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 <i>8</i>	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 <i>8</i> 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 <i>3</i> ----- Primary Score <i>28</i>	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 <i>5</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <i>7</i> Left Bank <i>7</i>	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 <i>8</i> Left Bank <i>3</i>	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 Zone Vegetation Quality Right Bank <i>8</i> Left Bank <i>3</i> ----- Secondary Score <i>41</i>	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

69

TOTAL SCORE

Date: <i>6/20/22</i>	Analyst: <i>Nathan Malley</i>	Signature: <i>Nathan Malley</i>
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SBIO ID: *84539*
62-160.800, F.A.C.

HA ID: *17439*

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Collins Mill Creek upstream of Conaugh</u>					County: <u>Santa Rosa</u>		Date: <u>6/20/22</u>		Investigators: <u>Nathan Malby</u>	
					STORET Station Number: <u>CHW0507</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		90	60	1	N		88
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
10	1	N		92	70	1	N		86
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
20	1	N		80	80	1	N		80
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
30	1	N		78	90	1	N		52
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
40	1	N		82	100	1	N		52
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
50	1	N		80		1	N		
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			

Secchi depth	<u>0.5</u>
Estimated?	

# points ranked 4-6	<u>8</u>
total points assessed	<u>99</u>
% points ranked 4-6	<u>8</u>

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	☒
Habitat Assessment	☒
SCI/Biorecon	☒
Water sample	☒
RQ- 2022-02-21-68	

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.	<u>84539</u>
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RPS ID.	<u>9943</u>
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Flow: 1/12 @ 60m

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%.

Waterbody: <u>Collins Mill Creek</u>	Date: <u>6/20/22</u>	County: <u>Santa Rosa</u>	Storet Number: <u>CHNM0507</u>
Analyst: <u>Nathan Mulvey</u>	Signature: <u>Nathan Mulvey</u>		
Comments: <u>< 2m² SAV</u>			

[illegible]

VPDB ID 21A

RQ-2022-02-21-68