



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Bucket Branch downstream of Pat Brown Road

Date: 11/15/2021

WIN/Field ID: G4NW0532

WBID: 356

ENR:

Latitude: 30.67799999

County: SANTA ROSA

Org ID: 21FLPNS

Longitude: -86.97893

Receiving Body of Water: -

RQ- 2021-08-23-10

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Christopher Stopher Slade	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: FLOW	Tide:	Tide Times: High: Low:
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:			
SBIO ID Numbers: SBIO Visit ID 83459. RPS ID 9802. HA ID 17089			
Notes:			

Duplicate Sample

Time Zone: CEN	Time:	Field ID: (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: WIN Import ID:

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

Scan/Save Field Sheets Migrate Data to WIN: Verify Data In WIN:



RQ-2021-08-23-10

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

WIN ID/Field ID:



G4NW0532

Location:

Bucket Branch downstream of Pat Brown Road

Comments: Microbiology sample(s) submitted to contract laboratory

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)
	1100 CEN	8.57	79.2	12.3	5.37	0.15	0.3 ☒ VOB (S)	0.3	37.2	0.02
11/15/2021										
	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 # 0353110 Exp: 1/11/21				
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 # 17236199				
	Syringe Lot # 1005533				
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 ☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☒ Ice		5	A
Phytoplankton/Periphyton	☐ DTY-QN-C ☐ PKD-QN-BV	☐ Ice			

Name: Christopher Stopher Slade Nathan Mulkey	Signature:	Date: 11/15/2021
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*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name Bucket Branch downstream of Post Brown Rd. Date: 11/15/21
Field ID G4NW0532 Storet G4NW0532 Project: Smp
Visit ID 83459 RQ: 2021-08-23-10
RPS ID 9802 LIMS ID: NA 2289873
Macro ID NA WBID: 356
HA ID 17089

☐ LVI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial SS

☒ Date and Initial QA: 11/17/21, FB

☒ RPS entered in SBIO Initial SS

☒ Date and Initial QA: 11/17/21, FB

☐ 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: 11/17/21, FB

☒ RPS score: 1.01

☐ VPDB authorized in SBIO

☐ Date and Initial: _____

☐ VPDB score: _____

☒ SCI complete: 02/04/2022 T. Risk

SCI Score: 51

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

SAMPLE ID 83459 ORG ID 21FLPMS LATITUDE 30.67790
 COUNTY Santa Rosa STORET # G4W0532 LONGITUDE -86.97880
 DATE 11/15/21 TIME 1100 SAMPLING AGENCY FOEP-MWRoc
 SITE NAME Bucket Branch down streamy at Brown Road
 FIELD ID/NAME G4W0532 RECEIVING BODY OF WATER Big Coldwater Creek

RIPARIAN ZONE / STREAM FEATURES RQ-2021-08-23-10 WBID 356 LIMS 2289873

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) N/A
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 2 m wide m/s 0.20 m/s m/s m deep 0.1 m deep m deep			
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: 1.4 + 0.1 = 1.5 (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%)					

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: 0.15</td> <td>12.3</td> <td>5.37</td> <td>8.57</td> <td>79.2</td> <td>37.2</td> <td>0.02</td> <td>0.3</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></td> </tr> </tbody> </table> Meter ID: 154179					Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top: 0.15	12.3	5.37	8.57	79.2	37.2	0.02	0.3	Mid:							☒ VOB	Bottom:														
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AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																														
SAMPLING TEAM S. Slake, M. Mulkey			SIGNATURE: [Signature]		DATE: 11/15/21																																									

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

SAMPLING AGENCY: FDEP - NWROC		STORET STATION NUMBER: G4NW0532	DATE (MM/DD/YY): 11/15/21	RECEIVING BODY OF WATER: Big Cold H2O
REMARKS:	COUNTY: Santa Rosa	LOCATION: Bucket Branch	FIELD ID/NAME: G4NW0532	

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 7	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 9	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 2 ----- Primary Score 32	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 20	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 Left Bank	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 Left Bank	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 9 9 Left Bank	10 9	8 7 6	5 4	3 2 1
Secondary Score 79				

110

TOTAL SCORE

Date: 11/15/21	Analyst: Stophar Slade	Signature: <i>Stophar Slade</i>
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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: 64NW0532

Location: Booke's Branch

Project: Smp

Sampled By: S. Slade

Date: 11/15/21

100	BF		Snag <u>0.1</u>
	%S		Root <u>0.2</u>
	Vg		LP <u>0.2</u>
90	BF		Plant <u>0.2</u>
	%S		OTR
	Vg		Snag <u>0.6</u>
80	BF		Root <u>0.7</u>
	%S		LP <u>0.1</u>
	Vg		Plant
70	BF		OTR
	%S		Snag <u>0.3</u>
	Vg		Root <u>0.5</u>
60	BF		LP <u>0.2</u>
	%S		Plant <u>0.2</u>
	Vg		OTR
50	BF		Snag <u>0.1</u>
	%S		Root <u>0.6</u>
	Vg		LP <u>0.2</u>
40	BF		Plant
	%S		OTR
	Vg		Snag <u>0.2</u>
30	BF		Root <u>1.5</u>
	%S		LP <u>0.3</u>
	Vg		Plant <u>0.5</u>
20	BF		OTR
	%S		Snag <u>0.1</u>
	Vg		Root <u>0.5</u>
10	BF		LP <u>0.2</u>
	%S		Plant
	Vg		OTR
	BF		Snag <u>0.2</u>
	%S		Root
	Vg		LP <u>0.2</u>
	BF		Plant
	%S		OTR
	Vg		Snag <u>0.2</u>
	BF		Root <u>0.4</u>
	%S		LP <u>0.2</u>
	Vg		Plant
	BF		OTR
	%S		Snag <u>0.1</u>
	Vg		Root <u>0.1</u>
	BF		LP
	%S		Plant
	Vg		OTR

Left
Bank

Downstream

Depth 0.1
Width 2.0

Depth 0.1
Width 2

Depth 0.2
Width 1.5

Depth 0.3
Width 1.5

Depth 0.2
Width 2

Depth 0.2
Width 2.0

Depth 0.4
Width 0.4

Depth 0.2
Width 1.5

Depth 0.3
Width 1.2

Depth 0.3
Width 1

Depth 0.1
Width 2

Substrates: Code key, draw proportionate habitat abundance.

- ☒ Snags 2.1 m² 1.2%
- ☒ Roots/undercut banks 19.6 11.2%
- ☒ Leaf Packs (or mats) 2.1 1.9 1.1%
- ☒ Macrophytes 0.9 0.5%

Velocity:
Note where velocity measures were taken: 90 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 1.75 m

Average depth 0.22 m

WQ & chemistry taken @ 95 m

0 m Latt. 30.67755

0 m Long. -86.97816

100 m Latt. 30.67790

100 m Long. -86.97880

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Bucket Branch County: Santa Rosa Date: 11/15/21 Investigators: S. Slade, M. Mulkey

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	4			60	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		85		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		92		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		
	5	N		93		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		94		5	N		96
	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		95		5	N		94
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
50	1	N				1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		91		5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	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%.

STORET Station Number:

64NW0532

Secchi depth
Estimated?

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

Check accompanying data collected at same site/date.

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

RQ- 201-08-23-10

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 IP: 9802

SBIO ID 83459

[illegible]

Station: Bucket Branch downstream of Pat Brown Storet G4NW0532

Sample Date: 11/15/2021

SBIO ID 83459

Project: SMP / TMDL Studies

GPS 30.67790 x 86.92880

RQ-2021-08-23-10

County: Santa Rosa

LIMS ID 2289873

WBID 356

Benth ID 45412

Variable Name	Rep 1	Rep 2	Avg./Pooled
AmphipodPct	0	0.68	0.34
ChironPct	23.03	19.18	21.105
ChironTaxa	11	11	11
ClingerTaxa	8	7	7.5
ColeopteraPct	35.53	45.21	40.37
DecapodaPct	0	0	0
DipteraPct	25	20.55	22.775
DominantPct	17.76	22.6	20.18
DominantTaxa	Hydropsyche	Microcylloepus pusillus	
EPTTaxa	7	4	5.5
EphemPct	0.66	1.37	1.015
EphemTaxa	1	1	1
FFBrowGrazPct	0	0	0
FFEpiColDepPct	27.63	34.59	31.11
FFParasitePct	0	0	0
FFPIPiercePct	0	0	0
FFPredCarnPct	15.46	8.9	12.18
FFScavPct	0	0	0
FFScrapePct	18.09	24.66	21.375
FFShredPct	7.57	6.16	6.865
FFSubColDepPct	0.66	0.68	0.67
FFSuspFiltPct	30.59	25	27.795
FFUnknownPct	0	0	0
GastropodaPct	0.66	2.05	1.355
IsopodaPct	0	0	0
LongLivedTaxa	0	0	0
OdonataPct	5.26	4.11	4.685
OligocPct	0.66	0.68	0.67
OligocTaxa	1	1	1
PelecypodaPct	1.32	2.05	1.685
PlecopPct	0	0	0
PolychaetePct	0	0	0
PolychaeteTaxa	0	0	0
SCI_2012_Rep	57.46706853	43.84810984	51
SensitiveTaxa	9	7	8
TanytarsiniPct	5.92	6.85	6.385
TotalDBar	0	0	0
TotalDensity	0	0	0
TotalNind	152	146	298
TotalTaxa	31	28	29.5
TrichopPct	29.61	22.6	26.105
TrichopTaxa	6	3	4.5
TrombidPct	1.32	0.68	1
VeryTolerantPct	0	2.05	1.025

SCI 2012	51
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Comments

Heavily smothered with silt