

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	Beaver Pond Creek				Sample Date:	8/15/2022	
WIN / Field ID:	33010066	ORG ID:	21FLPNS	ENR:			
County:	Escambia	WBID:	542	STREAM	3F	Latitude:	30.57014
Receiving Body of Water:	Perdido River				Longitude:	-87.40403	
					RQ-	2022-06-20-41	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Nathan Mulkey	x	x	x	x	
Brook Olin		x		x	
C. Stopher Slade		x	x	x	

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

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

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	1115	0.2	0.1	5.7	68.7	24.6	6.58	0.2	183.4	0.09
								VOB (s)		

Biological Samples Collected: HA LVS RPS SCI

SBIO Visit ID: 85371 HA ID: 17917 RPS ID: 9962 Macrophyte ID: N/A LIMS Sample ID Entered Into The Macrophyte Module: 2349999

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli			ICE			
	Contract Lab	UWF					
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE			
Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE			
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	2145160	6/2/23
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	1286110	11/16/22
Organics (LC)	W-E8321-DI	W-E8321-MS			MCAA***		
Macroinvertebrates	MI-FW-QLDC			Formalin	081522		
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							
Other(s)							
Field Comments:	/ SCI Collection Time: 1115						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	08/15/2022	Signature:					

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)

Save Field Sheets on Network: _____

(Initials/Date)

Migrate Data to WIN: _____

(Initials/Date)

Site Name Beaver Pond Creek

Date: 8/15/22

Field ID 33010066 Storet 33010066

Project: Smp

Visit ID 85371

RQ: 2022-06-20-41

RPS ID 9962

LIMS ID: 2349999

Macro ID MA

WBID 542

HA ID 17917

☐ LVI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial SL

☒ Date and Initial QA: FB, 9-13-2022

☒ RPS entered in SBIO Initial SL

☒ Date and Initial QA: FB, 9-13-2022

☐ 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: 9/13/22, FB

☒ RPS score: 4.9

☐ VPDB authorized in SBIO

☐ Date and Initial:

☐ VPDB score:

☒ SCI complete: 11/07/22
M. Heyn

SCI Score: 26

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

SAMPLE ID 85371 ORG ID 21FLPWS LATITUDE 30.57014
 COUNTY Escambia STORET # 33010066 LONGITUDE -87.40403
 DATE 8/15/22 TIME 0905 SAMPLING AGENCY FDEP Mulroe
 SITE NAME Beaver Pond Creek WBD 542
 FIELD ID/NAME 33010066 RECEIVING BODY OF WATER Perdido River

RIPARIAN ZONE / STREAM FEATURES RQ-2022-06-20-41

LIMS ID 234999

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>3.51</u> (<u>5310</u> <u>2011</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>115</u> <u>1.4</u> m wide <u>0.20</u> m/s <u>0.09</u> m/s <u>0.2</u> m/s <u>0.2</u> m deep <u>0.2</u> m deep <u>0.2</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>7/8</u> Right Bank: <u>7/8</u>				Hydrologic Modification Score (per FT 3101) <u>1 - 2</u>			
High Water Mark: <u>0.5</u> + <u>0.2</u> = <u>0.7</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 ☐																																																																							
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>2.0</u></td> <td><u>7</u></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>1.6</u></td> <td><u>7</u></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>0.7</u></td> <td><u>32</u></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>0.8</u></td> <td><u>32</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>94.9</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</td> <td></td> <td></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>2.0</u>	<u>7</u>		Undercut Banks / Roots	<u>1.6</u>	<u>7</u>		Leaf Packs or Mat	<u>0.7</u>	<u>32</u>		Aquatic Vegetation	<u>0.8</u>	<u>32</u>		Rock or Shell Rubble..				Sand.....	<u>94.9</u>	<u>2</u>		Mud / Muck / Silt				Other				Other				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: <u>0.1</u></td> <td><u>24.6</u></td> <td><u>6.58</u></td> <td><u>5.7</u></td> <td><u>68.7</u></td> <td><u>183.4</u></td> <td><u>0.09</u></td> <td><u>0.2</u></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: <u>154179</u> TOTAL DEPTH: <u>0.2</u>			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top: <u>0.1</u>	<u>24.6</u>	<u>6.58</u>	<u>5.7</u>	<u>68.7</u>	<u>183.4</u>	<u>0.09</u>	<u>0.2</u>	Mid:							☒ VOB	Bottom:							
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Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																																																										
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>2145100</u> Exp: <u>6/2/23</u>			Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐																																																																										
Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			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: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																													

SAMPLING TEAM

Stopher Slade, Nathan Mulkey, Brook Olin

SIGNATURE:

[Signature]

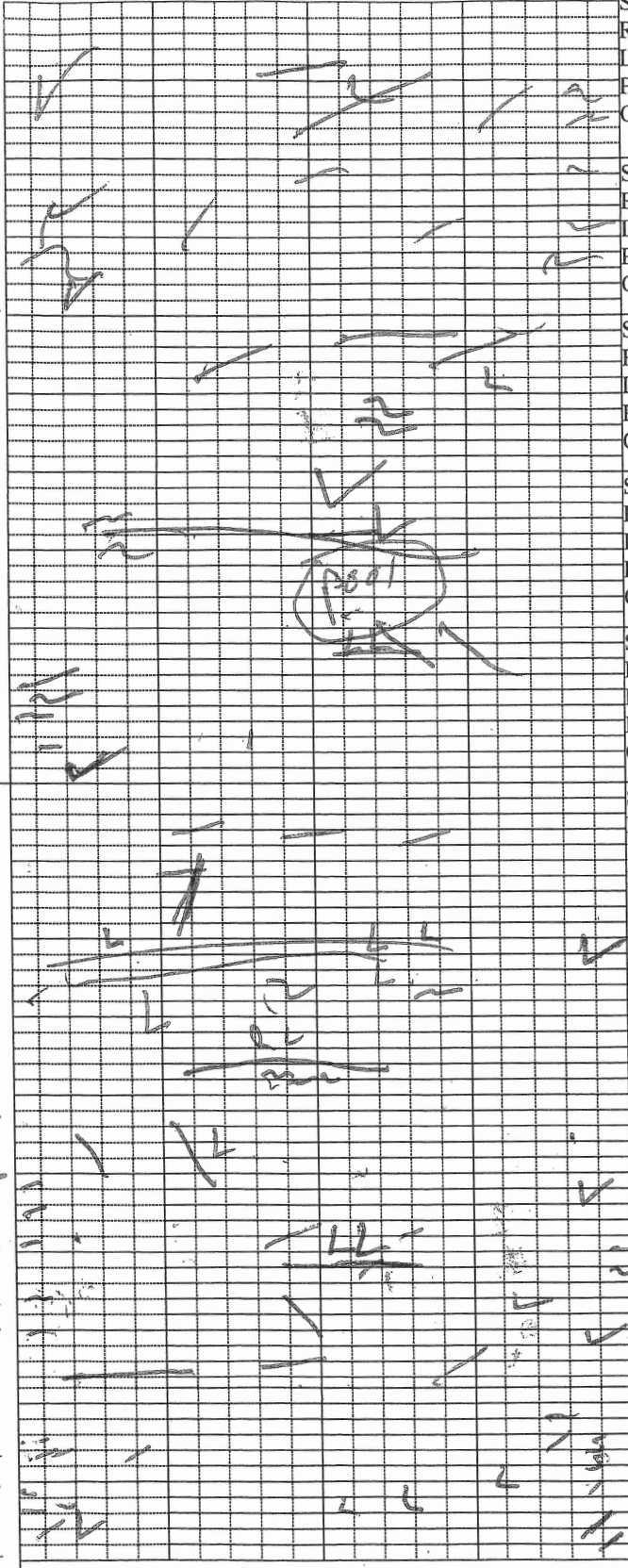
DATE:

8/15/22

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).

100
-BF-
- %S -
+Vg+
90
-BF-
- %S -
+Vg+
80
-BF-
- %S -
+Vg+
70
-BF-
- %S -
+Vg+
60
-BF-
- %S -
+Vg+
50
-BF-
- %S -
+Vg+
40
-BF-
- %S -
+Vg+
30
-BF-
- %S -
+Vg+
20
-BF-
- %S -
+Vg+
10
-BF-
- %S -
+Vg+
Left Bank



Snag 0.3
Root 0.4
LP 0.1
Plant 0.1
OTR
Snag 0.3
Root 0.2
LP 0.1
Plant 0.1
OTR
Snag 0.3
Root 0.2
LP 0.1
Plant 0.2
OTR
Snag 0.4
Root 0.3
LP 0.2
Plant 0.1
OTR
Snag 0.4
Root 0.2
LP 0.1
Plant 0.1
OTR
Snag 0.2
Root 0.2
LP 0.1
Plant 0.1
OTR
Snag 0.2
Root 0.1
LP 0.1
Plant 0.1
OTR
Snag 0.2
Root 0.1
LP 0.1
Plant 0.1
OTR

WIN ID 33410066
Substrates: Code key,
draw proportionate habitat
abundance.

☒ Snags 2.8 29
☒ Roots/undercut banks 2.3 1.6
☒ Leaf Packs (or mats) 1.0 0.7
☒ Macrophytes 1.1 0.8
☐
☐
☐

Velocity:
Note where velocity 30m
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 1.4 m
Average depth 0.2 m
WQ & chemistry taken @ m

Station Name:
BEAVER POND CREEK

Project. SMP
Sampled By/Date: 8/15/2022
S. Slade

0 m Latt. _____

0 m Long. _____

100 m Latt. _____

100 m Long. _____

Downstream

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

SAMPLING AGENCY: <u>FDEP NWROC</u>		STORET STATION NUMBER: <u>33010066</u>	DATE (MM/DD/YY): <u>8/15/22</u>	RECEIVING BODY OF WATER: <u>Perdido River</u>
REMARKS: WBID <u>542</u>	COUNTY: <u>Escambia</u>	LOCATION: <u>Beaver Creek</u>	FIELD ID/NAME: <u>33010066</u>	

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>9</u>	20 19 18 17 16	15 14 13 12 11	10 <u>9</u> 8 7 6	5 4 3 2 1
Substrate Availability <u>5</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 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat <u>5</u> 4 3 2 1
Water Velocity <u>4</u> <u>9</u>	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 <u>14</u> 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 <u>9</u> 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>5</u> ----- Primary Score <u>33 28</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. <u>5</u> 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 <u>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>5</u> Left Bank <u>4</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. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. <u>5</u> <u>4</u>	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 <u>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 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 <u>10</u> Left Bank <u>10</u> ----- Secondary Score <u>69</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. <u>10</u> 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

97

TOTAL SCORE

Date: <u>8/15/22</u>	Analyst: <u>Stephen Stade</u>	Signature: <u>Stephen Stade</u>
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SBIO ID: 85374
62-160.800, F.A.C.

HA ID: 17917

Revision Date: March 1, 2014

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

SAMPLING AGENCY: <u>FOEP NWROC</u>		STORET STATION NUMBER: <u>33010066</u>	DATE (MM/DD/YY): <u>8/15/22</u>	RECEIVING BODY OF WATER: <u>Perdido River</u>
REMARKS: WBID <u>542</u>	COUNTY: <u>Escambia</u>	LOCATION: <u>Pond Beaver Creek</u>	FIELD ID/NAME: <u>33010066</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>9</u>	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 <u>9</u> 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
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TOTAL SCORE

Date: <u>8/15/22</u>	Analyst: <u>Stephen Stade</u>	Signature: <u>Stephen Stade</u>
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 SBIO ID: 85374
 62-160.800, F.A.C.

 HA ID: 17917

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: pond
Beaver Creek County: Escombia Date: 9/15/22 Investigators: S. Siddle

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					2				
	3					3				
	4					4				
	5			92		5				91
	6					6				
	7					7				
	8					8				
	9	N				9	N			
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9	N				9	N			
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			88		5				80
	6					6				
	7					7				
	8					8				
	9	N				9	N			
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			90		5				75
	6					6				
	7					7				
	8					8				
	9	N				9	N			
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			88		5				90
	6					6				
	7					7				
	8					8				
	9	N				9	N			
50	1	N				1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				
	6					6				
	7					7				
	8					8				
	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:
33010066

Secchi depth 0.2
Estimated? N

points ranked 4-6 0
total points assessed 90
% points ranked 4-6 0

Check accompanying data collected at same site/date:

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

RQ- 2022-06-20-41

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 ID: 85371
RPS ID: 9962
RPS score: 0

Waterbody: Beaver Pond Creek

Date: 8/15/22

County: Essex

Storet Number: 33010066

Analyst: Stacy Slade

Signature: Steve Hoke

Comments: $\angle 2m^2$ of vegetation

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]