

Site Name Oak Creek below Tommy Steele Road

Date: 04/03/2019

Field ID G4NW0395 Storet G4NW0395

Project: SMP

Visit ID 79304

RQ: 2019-02-18-18

RPS ID 9285

LIMS ID: _____

Macro ID N/A

WBID: 50

HA ID 15718

RQ: 2019-02-18-18

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB 04/04/2019 ☐ Date and Initial QA: _____

☒ RPS entered in SBIO Initial FB 04/04/2019 ☐ Date and Initial QA: _____

☐ LVS 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: _____

☐ RPS score: _____

☐ VPDB authorized in SBIO ☐ Date and Initial: _____

☐ VPDB score: _____

☐ SCI complete: _____ SCI Score: _____

☐ If SMP, scanned into database



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes ☒ No ☐

WIN Station Name: Oak Creek below Tommy Steele Road

Date: 04/03/2019

WIN/ Field ID: G4NW0395

WBID: 50

Latitude: 30.96846

County: Okaloosa

ORG ID: 21FLPNS

Longitude: -86.71055

Receiving Body of Water: Blackwater River

RQ-2019-02-18-18

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera						X	X		
Stophor Slade					X	X		X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with YSI		
Equipment ID 155077		

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# 155077

Matrix: Fresh / Marine / DI

Photos: ☒ Yes / No

Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising/ Falling/ Slack NA

Tide Times: High Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	12:45	0.2	0.1	0.2	8.24	80.5	5.51	0.01	27.6	14.7
CEN										

VOB-verified with Stophor 4/8/19, CAB

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: 79304 HA-ID: 15718 RPS-ID: 9285 Macrophyte-ID: N/A LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>SA8197090</u>	<u>7/16/19</u>	☐ <2
Metals	☐ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>SA8197090</u>	<u>7/16/19</u>	☐ <2
Filtered Nutrients	☐ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☒ W-E8321-DI ☒ W-E8321-MS	☒ Ice			
Pesticides	☒ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☒ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:

Field/WIN ID

G4NW0395

Location:

Oak Creek below Tommy Steele Road

Signature: Frodo

Date: 04/03/2019

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:

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

SAMPLE ID 79304 ORG ID 21FLPNS LATITUDE 30.96846
 COUNTY Okaloosa WIN ID/STORET # G4NW0395 LONGITUDE -86.71055
 DATE 04/03/2019 TIME 12:45 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Oak Creek ^{below} stream of Tommy Steele Road RQ-2019-02-18-18
 FIELD ID/NAME G4NW0395 RECEIVING BODY OF WATER Blackwater River WBID 50 Project SMP- TMDL Studies

RIPARIAN ZONE / STREAM FEATURES

LIMS ID:

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>1-2 N/A</u>	
Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☒ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy					Typical Width (m) <u>60m</u> Depth (m)/Velocity (m/sec) Transect <u>3.0</u> m wide			
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>1.4</u> + <u>0.6</u> = <u>1.6</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

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	<u>3.8</u>	<u>10</u>	
Undercut Banks / Roots	<u>0.2</u>	<u>4</u>	
Leaf Packs or Mat	<u>0.1</u>	<u>3</u>	
Aquatic Vegetation			
Rock or Shell Rubble..			
Sand.....	<u>95.1</u>	<u>3</u>	
Mud / Muck / Silt			
Other			
Other			

WATER QUALITY

	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>14.7</u>	<u>5.51</u>	<u>8.24</u>	<u>84.5</u>	<u>27.6</u>	<u>0.01</u>	<u>0.2</u>
Mid:								☒ VOB
Bottom	<u>0.2</u>	<u>0</u>						
Meter ID:	<u>155077</u>							<u>0.2</u>

Water Odors Normal ☒ Petroleum ☐
 Sewage ☐ Chemical ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No
 Sample Preserved? ☐ Yes ☐ No
 Lot Number: SA8197090 Exp: 7/16/2019

Algae Sample Taken? ☐ Yes ☒ No
 Sample Preserved? ☐ Yes ☐ No
 Lot Number: _____ Exp: _____

Water Surface Oils Normal ☐ Sheen ☐
 Globs ☒ Slick ☐ Other ☐

Color Tannic ☐ Green (Algae) ☐
 Clear ☐ Other (Specify) ☒
Red Fe/Sulfur Bact.

Clarity Clear ☐ Slightly Turbid ☐
 Turbid ☒ Opaque ☐

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐

AMBIENT FIELD CONDITIONS / NOTES:

Entire stream bottom covered w/ "Blanket" of Fe/Sulfur Bacteria. Plants A couple plants outside of reach.
☒ The antecedent hydrologic conditions have been met to my best knowledge.

ABUNDANCE Not Obs. Rare Common Abundant

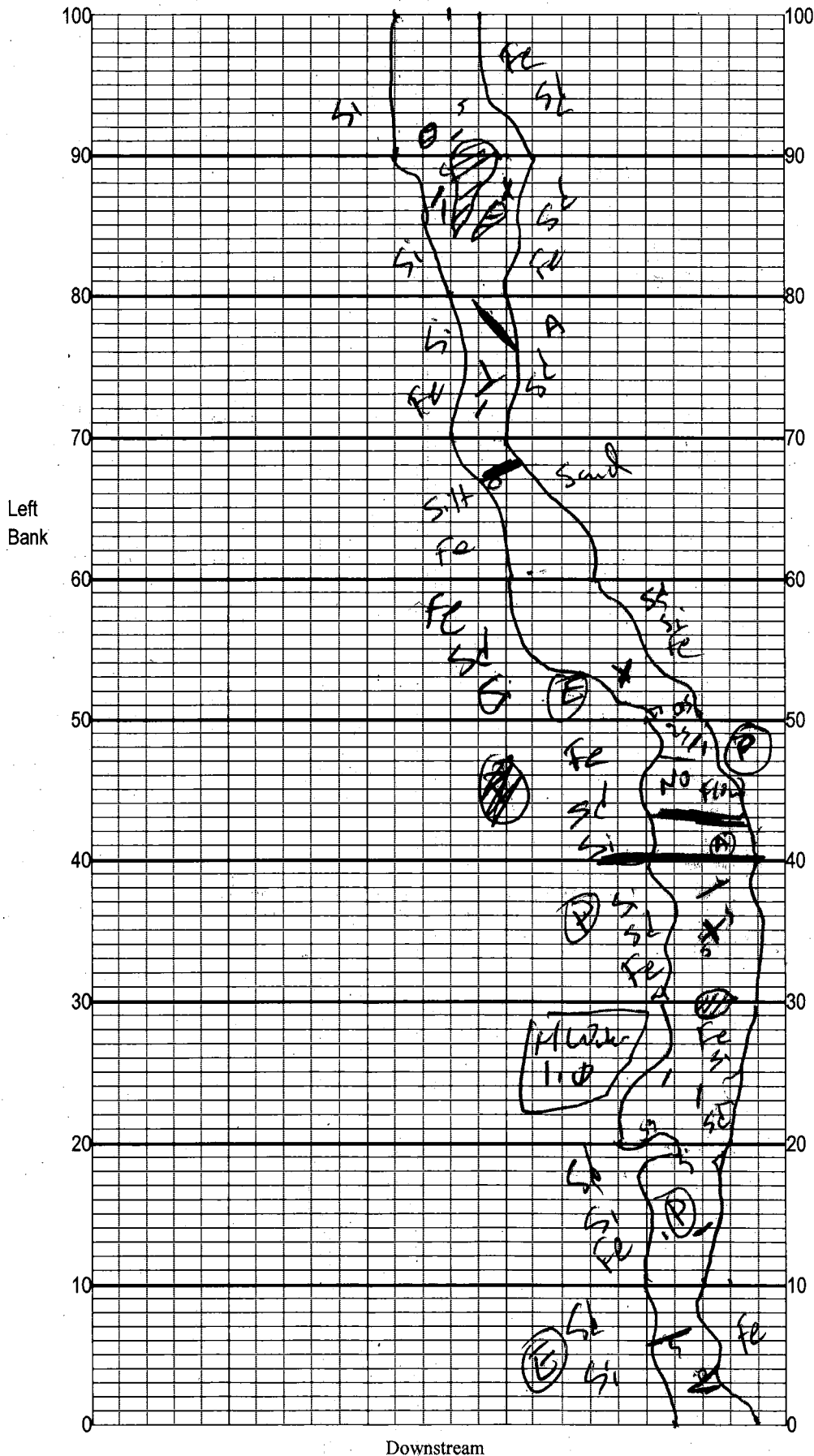
Periphyton:	☐	☐	☒	☐
Fish:	☐	☐	☒	☐
Aquatic Plants:	☒	☒	☐	☐
Iron/Sulfur Bacteria:	☐	☐	☐	☒

SAMPLING TEAM: Frank Butera, Stopher Slade

SIGNATURE: [Signature]

DATE: 03/04/03/2019

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Oak Creek Below Tommy Steele Rd.

Location: ~~Panther Cr. J.R. Damhill Rd.~~

Date: 04/03/2019

Sampler: F. Butler

100 m: Latitude 30.96841
Longitude 86.71053

0 m: Latitude 30.96842
Longitude 86.71135

Substrates: Code key, draw proportionate habitat abundance. %

1	Snags	$\frac{9.5}{250} = 3.8$
S	Roots/undercut banks	$\frac{0.2}{250} = 0.2$
U	Leaf Packs (or mats)	$\frac{0.1}{250} = 0.1$
Δ	Aquatic Macrophytes	
⊗	BAK	
Si	Silt	A=Algae
SL	Sand	P=Pool
E	Erosion	
P	Pools	total # observed = 2 # range expected = 3

Average width 2.5 m
Average depth 0.3 m

Velocity measured at 60 meter mark.

WQ & chemistry taken at 100 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering 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.

Plants observed / other notes:

~~WIN ID 33030042.~~

SBIO ID 79304

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.0	Bankfull	Bankfull
0m width (m) 2.0	Root 0.1	+	+
10m width 2.0	Leaf 0.1	Slope	Slope
Avg. Depth 0.3	Veg	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd, E		

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.5	Bankfull	Bankfull
20m width 3.0	Root 0.2	-	-
	Leaf 0.1	Slope	Slope
Avg. Depth 0.4	Veg	+	+
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd, Fe		

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

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.3	Bankfull	Bankfull
40m width 3.0	Root 0.2	-	+
	Leaf 0.1	Slope	Slope
Avg. Depth 0.4	Veg	+	+
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd		

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.0	Bankfull	Bankfull
50m width 1.5	Root 0.5	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth 0.5	Veg	+	+
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd		

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.3	Bankfull	Bankfull
60m width 3.0	Root 0.2	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth 0.3	Veg	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	-
Rip. Buff R 718	Fe, Si, Sd, Fe		

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.6	Bankfull	Bankfull
70m width 3.0	Root	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth 0.3	Veg	+	+
Max Depth 0.3	Gravel	Veg	Veg
Rip. Buff L 718	Rock	-	+
Rip. Buff R 718	Fe, Si, Sd		

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.6	Bankfull	Bankfull
80m width 2.0	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 0.4	Veg	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd, A		

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
90m width 1.5	Root 0.3	+	+
	Leaf	Slope	Slope
Avg. Depth 0.2	Veg	+	+
Max Depth 0.2	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd		

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.2	Bankfull	Bankfull
100m width 3.0	Root 0.1	+	+
	Leaf	Slope	Slope
Avg. Depth 0.3	Veg	+	+
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Fe, Si, Sd		

Oak Ck upstream Tommy Steele Rd

Storet: G4NW0395

Date 04/13/2019

0 meter (Dec Deg)

30.96802

86.7135

100 meter (Dec Deg)

30.96841

86.71053

Water Quality Measured at

+100m

Stream Velocity and location.

0.2 m/s 60 meter mark

Number of Pools & Location

B, E 1.0 (2)

High Water:

Silt smothering @

A-J

Sand Smothering @

A-J

Algae Smothering @

H.

Degraded Banks @

A, B, F

Fe/Sulfur Bact. @

A-J

Total Habitat	Sq. Meters	Percent
Snags	9.5	3.8
Roots	1.8	0.2
Leaf	0.9	0.1
Veg		
Rock		
Gravel	7237.8	
Sand	95.1	95.1
Other		
Sum 1° Habitat	4.1	

Avg. Depth	Max. Depth	Avg. Width
0.3	0.6	2.5

Notes: Entire Stream Bottom Covered with thick "blanket" of Fe/Sulfur Bacteria.
SB10 2A 79304

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

SAMPLING AGENCY: 21FLPNS		STORET STATION NUMBER: G4NW0395	DATE (MM/DD/YY): 04/03/19	RECEIVING BODY OF WATER: Blackwater River
REMARKS: WBID 50	COUNTY: Okaloosa	LOCATION: Oak Creek above Tommy Steele Road		FIELD ID/NAME: G4NW0395

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>2</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 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 <u>2</u> 1
Substrate Availability <u>4</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 5 <u>4</u> 3 2 1
Water Velocity <u>14</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 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 <u>10</u> 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>1</u> ----- Primary Score <u>17</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 2 <u>1</u>
Secondary Habitat Components Artificial Channelization <u>13</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 <u>13</u> 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 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>10</u> Left Bank <u>9</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. <u>10</u> <u>9</u>	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 <u>14</u> Left Bank <u>14</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>7</u> Left Bank <u>7</u> ----- Secondary Score <u>66</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 <u>7</u> 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

83

TOTAL SCORE

*Entire stream bottom smothered by a blanket of Fe/sulfur bacteria

Date: 04/03/2019	Analyst: F. Butera, S. Slade	Signature: <u>F. Butera</u>
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SBIO ID: 79304

HA ID: 15718

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Oak Creek ^{upstream} of Tommy Steele Road _{below (PB)}

County: Okaloosa

Date:

Investigators: F. Butera, S. Slade

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	No	96	60	1	N	No	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9	N	No						
10	1	N	No	96	70	1	N	No	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9	N	No						
20	1	N	No	96	80	1	N	No	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9	N	No						
30	1	N	No	96	90	1	N	No	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9	N	No						
40	1	N	No	96	100	1	N	No	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9	N	No						
50	1	N	No	96		1	N	No	
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9	N	No						

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 densimeter 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:
G4NW0395

Field ID. G4NW0395

Secchi depth 0.2
Estimated? No

points ranked 4-6 1
total points assessed 99
% points ranked 4-6 1%

Check accompanying data collected at same site/date.

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

RQ- 2019-02-18-18

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 ID 9285

Macro ID N/A

SBIO ID. 79304

[illegible]

Revision Date: March 1, 2014
62-160,800, F.A.C.