



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	Yellow River upstream of Miller Bluff Landing				Sample Date:	12/1/2022	
WIN / Field ID:	G4NW0534	ORG ID:	21FLPNS	ENR:			
County:	Santa Rosa	WBID:	30B	STREAM	3F	Latitude:	30.61932
Receiving Body of Water:	Blackwater Bay South Segment				Longitude:	-86.85376	
					RQ-	2022-11-28-13	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Lauren McNally		x		x	x
Frank Butera		x	x		

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	Pole	
Syringe Lot# 1363514		Filter Lot#	
Secchi Equipment ID:		Aerial	
Collection Method			
Wading		Canoe/Kayak	
From Shore		Electric Motor	
		x	Gasoline Motor
Depth Measured With Sonar			

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (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	1150	2.1	0.3	8.08	81	16.2	6.27	0.6	44.6	0.02
	1300		1.6	8.05	80.8	16.2	6.31		44.7	0.02

Biological Samples Collected:

HA RPS SCI

SBIO Visit ID: 85819

HA ID: 18038

RPS ID: 9991

Macrophyte ID: N/A

LIMS Sample ID Entered

Into The Macrophyte Module: 2372698

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#:1363514; Filter Lot#:		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA2145160	06/02/2023
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2126030	06/02/2023
Organics (LC)	W-E8321-DI	W-E8321-MS					
Macroinvertebrates	MI-FW-QLDC			Formalin	-		
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:	1.0" rain previous 72 hours / SCI Collection Time: 10:30						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	12/01/2022	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: Yellow River upstream of Miller Bluff Landing

Date: 12/01/2022

WIN-ID G4NW0534 Field ID G4NW0534

Project: SMP / TMDL Studies

Visit ID 85819

RQ: 2022-11-28-13

RPS ID 9991

LIMS ID: 2372698

Macro ID N/A

WBID: 30B

HA ID 18038

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial 12/05/2022 FB ☒ Date and Initial QA: 12/12/2022, FB

☒ RPS entered in SBIO Initial 12/05/2022 FB ☒ Date and Initial QA: 12/12/2022, FB

☐ 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: FB, 12/12/2022

☒ RPS score: 0

☐ Macro authorized in SBIO

☐ Date and Initial: _____

☐ LVS Score: _____

☐ SCI complete: _____

SCI Score: _____

☒ 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 85819 ORG ID 21FLPNS LATITUDE 30.61932
 COUNTY San Rosa WIN ID/STORE # G4NWD534 LONGITUDE -86.85376
 DATE 12/01/2022 TIME 11:50 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Yellow River updrn Miller Bluff Land RQ 2022-11-28-13
 FIELD ID/NAME G4NWD534 RECEIVING BODY OF WATER Ecot Bay WBID 30B Project: SMP/EMOL Shrike

RIPARIAN ZONE / STREAM FEATURES

WBID: 30B

LIMS ID: 2372698

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

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: 1.2 + 2.1 = 3.3
 (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%)

Typical Width (m) Depth (m)/Velocity (m/sec) Transect
100m 50 m wide
0.5 m/s 2.1 m deep

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

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	<u>5.70</u>	<u>4</u>	
Undercut Banks / Roots	<u>2.1</u>	<u>4</u>	
Leaf Packs or Mat	<u>0.2</u>	<u>4</u>	
Aquatic Vegetation	<u>0.1</u>	<u>4</u>	
Rock or Shell Rubble			
Sand <u>15:14</u>	<u>92.1</u>	<u>4</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>0.3</u>	<u>16.2</u>	<u>6.57</u>	<u>1.08</u>	<u>81</u>	<u>44.6</u>	<u>0.02</u>	<u>0.6</u>
Mid								
Bottom	<u>1.6</u>	<u>16.2</u>	<u>6.31</u>	<u>8.05</u>	<u>80.8</u>	<u>44.7</u>	<u>0.02</u>	

Meter ID: 155077 TOTAL DEPTH 2.1

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: Exp:

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

Color Tannic ☒ Green (Algae) ☐
 Clear ☐ Other (Specify) ☐

Clarity Clear ☐ Slightly Turbid ☐
 Turbid ☐ Opaque ☒

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

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☐	☒	☐
Fish:	☐	☐	☒	☐
Aquatic Plants:	☐	☒	☐	☐
Iron/Sulfur Bacteria:	☒	☐	☐	☐

AMBIENT FIELD CONDITIONS / NOTES:
< 2 m vegetation
☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM:

Frank Butler, L. McNally

SIGNATURE:

Frank Butler

DATE:

12/01/2022

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
0m width 3.0	Root 1.3	+	+
10m width 1.0	Leaf 1.5	Slope	Slope
Avg. Depth 0.5	Veg 0.5	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Other	Other

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
Snag 5.7	Bankfull	Bankfull	
20m width 3.0	Root 1.4	+	+
10m width 1.0	Leaf 5.5	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Other	Other

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
30m width 3.0	Root 2.5	+	+
10m width 1.0	Leaf 1.5	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Other	Other

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
40m width 3.0	Root 1.6	+	+
10m width 1.0	Leaf 1.0	Slope	Slope
Avg. Depth 0.5	Veg 0.5	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
50m width 10.5	Root 1.0	+	+
10m width 1.0	Leaf 8.5	Slope	Slope
Avg. Depth 0.2	Veg 1.2	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
60m width 4.0	Root 2.4	+	+
10m width 1.0	Leaf 0.3	Slope	Slope
Avg. Depth 1.0	Veg 4.6	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Other	Other

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
70m width 4.0	Root 1.5	+	+
10m width 1.0	Leaf 1.3	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Other	Other

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
80m width 4.0	Root 1.7	+	+
10m width 1.0	Leaf 1.2	Slope	Slope
Avg. Depth 3.7	Veg 0.2	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock 1.5	+	+
Rip. Buff R 718	Other	Other	Other

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
90m width 4.0	Root 1.0	+	+
10m width 1.0	Leaf 1.3	Slope	Slope
Avg. Depth 0.5	Veg 1.5	+	+
Max Depth	Gravel 1.5	Veg	Veg
Rip. Buff L	Rock 0.6	+	+
Rip. Buff R	Other	Other	Other

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
Snag 1.1	Bankfull	Bankfull	
100m width 5.0	Root 1.8	+	+
10m width 1.0	Leaf 1.3	Slope	Slope
Avg. Depth 0.9	Veg 3.6	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Other	Other

Station Name Yellow R
 upstream m. 110 Blue
 Store: 64NW0534
 Date 12/01/2022
 0 meter (Dec Deg) 30.63072
-86.80547
 100 meter (Dec Deg) 30.61846
86.85315
 Water Quality Measured at 100m
 Stream Velocity and location. 0.5 m/s 100 meter mark

Number of Pools & Location

High Water: 1.2

Silt smothering @ A-J

Sand Smothering @ A-J

Algae Smothering @ N/A

Degraded Banks @ N/A

Fe/Sulfur Bact. @ N/A

Total Habitat	Sq. Meters	Percent
Snags		
Roots		
Leaf		
Veg		
Rock		
Gravel		
Sand		
Other		
Sum 1° Habitat		

Avg. Depth	Max. Depth	Avg. Width

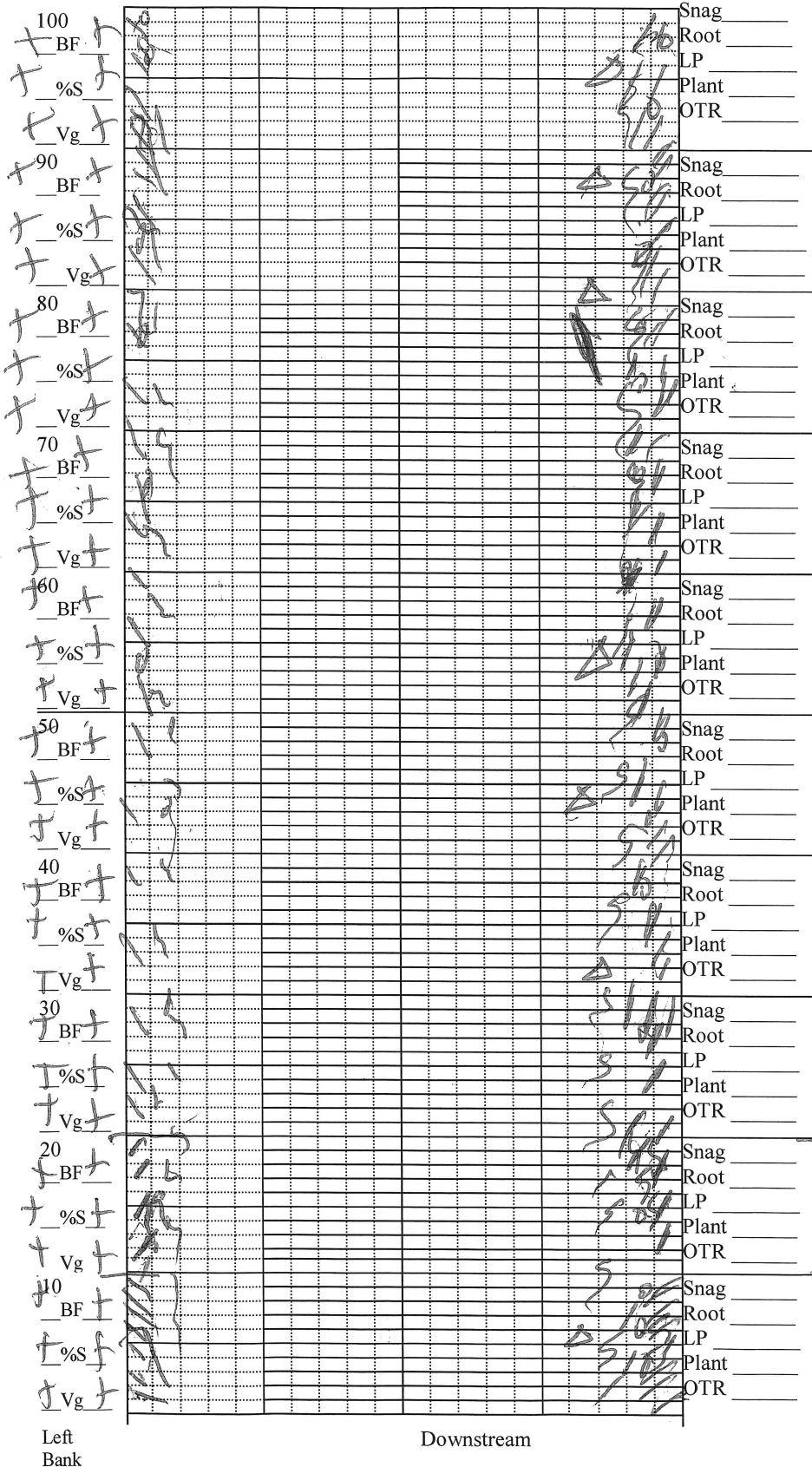
Bank Stability Score. Left Bank 30 Right Bank 30 Category Left Bk optimal Right Bk optimal
 Add all plus signs (Max. 30 possible) and Divide by 10. Scoring. Poor: 0.0 - 0.9 pts. Marginal: 1.0-1.9 pts. Suboptimal: 2.0 - 2.9 Optimal: 2.1 +

Notes. SBIO ID 85819

Yellow R. Miller Bluff Landing

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 G-3N110 534

Substrates: Code key,
draw proportionate habitat
abundance.



Snags $\frac{207}{3700} = 5.6\%$



Roots/undercut banks
 $\frac{77.4}{3700} = 2.1\%$



Leaf Packs (or mats)

$\frac{7.7}{3700} = 0.2\%$



Macrophytes

$\frac{4.2}{3700} = 0.1\%$



Sand 15.1%



$\frac{3407.9}{3700} = 9.2\%$



Velocity:

Note where velocity 100
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 37 m

Average depth 22.4 m

WQ & chemistry taken @ 100 m

Station Name:

Yellow River upstream
Miller Bluff Landing

Project. SMP/WWC Studies

Sampled By/Date: 12/1/22 FSLM

0 m Latt. 30.63472

0 m Long. 86.80547

100 m Latt. 30.61896

100 m Long. 86.85315

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

SAMPLING AGENCY: DEAR-NWROC. 21FLPNS <i>NWROC 21 FLPNS</i>		STORET STATION NUMBER: <i>64NW0534</i>	DATE (MM/DD/YY): <i>12/01/22</i>	RECEIVING BODY OF WATER: <i>East Bay</i>
REMARKS: WBID <i>30B</i>	COUNTY: <i>Santa Rosa</i>	LOCATION: <i>Yellow R. upstream Miller Bl.</i>	FIELD ID/NAME: <i>64NW0534</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>16</i>	20 19 18 17 <u>16</u>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <i>567</i> <i>(50)</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 <i>8.5%</i> 10 9 8 <u>7</u> <u>6</u>	Less than 5% major productive habitat 10 9 8 7 6
Water Velocity <i>20</i> <i>0.5 m/s</i>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec <u>0.33</u> 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 <i>2019</i> ----- Primary Score <i>6462</i>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. <u>20</u> 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>20</i>	<u>20</u> 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 <i>10</i> Left Bank <i>10</i>	<u>10</u> 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 <i>10</i> Left Bank <i>10</i>	<u>10</u> 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 <i>10</i> Left Bank <i>10</i> ----- Secondary Score <i>80</i>	<u>10</u> 9	8 7 6	5 4	3 2 1

14142 TOTAL SCORE

Date: <i>12/01/2022</i>	Analyst: <i>F. B. White</i>	Signature: <i>[Signature]</i>
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SBIO ID: *85819*

HA ID: *18038*

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Yellow R. upstream Miller Bluff Lnd County: Santa Rosa Date: 12/01/2022 Investigators: F. Blotz

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	X		60	1	N	X	FB
	2	N	X			2	N	X	
	3	N	X			3	N	X	
	4	N	X			4	N	X	
	5	N	X			5	N	X	96%
	6	N	X			6	N	X	
	7	N	X			7	N	X	
	8	N	X			8	N	X	
	9	N	X			9	N	X	
10	1	N	X		70	1	N	X	FB
	2	N	X			2	N	X	
	3	N	X			3	N	X	
	4	N	X			4	N	X	
	5	N	X			5	N	X	96%
	6	N	X			6	N	X	
	7	N	X			7	N	X	
	8	N	X			8	N	X	
	9	N	X			9	N	X	
20	1	N	X		80	1	N	X	FB
	2	N	X			2	N	X	
	3	N	X			3	N	X	
	4	N	X			4	N	X	
	5	N	X			5	N	X	96%
	6	N	X			6	N	X	
	7	N	X			7	N	X	
	8	N	X			8	N	X	
	9	N	X			9	N	X	
30	1	N	X		90	1	N	X	
	2	N	X			2	N	X	
	3	N	X			3	N	X	
	4	N	X			4	N	X	
	5	N	X			5	N	X	96%
	6	N	X			6	N	X	
	7	N	X			7	N	X	
	8	N	X			8	N	X	
	9	N	X			9	N	X	
40	1	N	X		100	1	N	X	
	2	N	X			2	N	X	
	3	N	X			3	N	X	
	4	N	X			4	N	X	
	5	N	X			5	N	X	96%
	6	N	X			6	N	X	
	7	N	X			7	N	X	
	8	N	X			8	N	X	
	9	N	X			9	N	X	
50	1	N	X			1	N	X	
	2	N	X			2	N	X	
	3	N	X			3	N	X	
	4	N	X			4	N	X	
	5	N	X			5	N	X	96%
	6	N	X			6	N	X	
	7	N	X			7	N	X	
	8	N	X			8	N	X	
	9	N	X			9	N	X	

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:

G3NW0534

Secchi depth 0.6
Estimated? N

points ranked 4-6 0
total points assessed 96
% 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-2022-11-26-13

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. 85819

RPS ID. 9991

RPS score 0

[illegible]

VPDB ID 2/A

Photo Log

Storet G4NW0534

Station Name: Yellow River Upstream Miller Bluff Landing

Date: 12/01/2022

Samplers: F. Butler, L. McNally

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

Notes.

Document Reference # 05.1.0

Laboratory: Wetlands Research Laboratory

Sampler's initials : LM

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Date/Time: 12/1/22 / 1329

Date/Time: 12/1/22 / 1329

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

[illegible]

Comments: **Sample Container lot#** 21347 PO # C01214 Surface water, no chlorine expected

RQ - 2022-11-28-13

Contact name: **Mike King**

Phone: 850-595-8300

Sampler's name:

¹Matrix examples: SW = surface water, PW = pore water, GW = ground water, FW = Freshwater, MW = Marine Water, BW = Brackish Water, S = soil/sediment, Other X =

³ Recorded using IRT-2