

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	ALLIGATOR SOUTH @ JONES LOOP RD				Sample Date:	12/20/2022	
WIN / Field ID:	G2SD0033	ORG ID:	21FLFTM	ENR:	-		
County:	Charlotte	WBID:	2074	STREAM			
Receiving Body of Water:	Charlotte Harbor Middle Segment1				RQ-	2022-11-28-23	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Nicole Reistad	x		x		
Monica Jaeger		x		x	x

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe	x	Pole
	Syringe Lot#	1363442	Filter Lot#
	Secchi Equipment ID:	3312A	
Collection Method			
	Wading		Canoe/Kayak
x	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With Secchi			

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	President Camacho
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)
EST	835	0.3	0.15	6.28	67.5	18.8	6.79	0.3	188.5	0.09
								VOB (s)		

Biological Samples Collected: HA LVS RPS

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli	Contract Lab	Benchmark	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	Syring Lot#:1363442; Filter Lot#:17347262		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA2229010	08/30/23
Metals							H2SO4 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS	W-CARB-AA**	ICE	MCAA***	128343	02/04/23
Macroinvertebrates							
Organics (GC)	W-CT-CI-R	W-PCL-TQ-R	W-PCB-TQ-R	Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise ***5 ml MCAA (Monochloroacetic Acid Buffer Solution)		
Molecular	W-PSNP-TQ	W-TR-SQ-R					
Periphyton							
Phytoplankton							
BOD							
DOC							
Other(s)					SyringLot#		FilterLot#
Field Comments:							
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	12/20/2022	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)

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

VISIT ID: 86020

SAMPLE ID _____ ORG ID ZIFLFTM LATITUDE 26.884536
 COUNTY CHARLOTTE STORET # _____ LONGITUDE -81.978522
 DATE 12/20/2022 TIME 0835 SAMPLING AGENCY FDEP-SOROC
 SITE NAME ALLIGATOR SOUTH @ JONES LOOP
 FIELD ID/NAME G2SD0033 RECEIVING BODY OF WATER PEACE RIVER

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>65</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>15</u> Commercial <u>20</u> Industry _____ Other (Specify) _____								Landscape Development Intensity Index (LDI) _____
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</u> m wide				
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>8</u> Right Bank: <u>2</u>				Hydrologic Modification Score (per FT 3101) <u>5-6</u>				
High Water Mark: <u>2.0</u> + <u>0.4</u> = <u>2.4</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			WATER QUALITY																																																																												
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Meter ID: <u>PRESIDENT CAMACHO</u>			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>SA22291012</u> Exp: <u>08/30/23</u>																																																																												
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			AMBIENT FIELD CONDITIONS / NOTES:																																																																												
Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☒ ☐ ☐ Iron/Sulfur Bacteria: ☐ ☐ ☐ ☒			<i>severely overgrown with Brazilian pepper, difficult to get upstream/ landslide around 80m</i> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																												

SAMPLING TEAM: NICKERSTAD, MONICA JAEGER SIGNATURE: [Signature] DATE: 12/20/2022

HAID: 18113

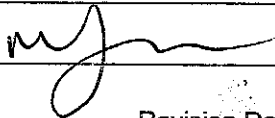
DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: <u>FDEP-SOROC</u>		STORET STATION NUMBER: <u>6ZSD0033</u>	DATE (MM/DD/YY): <u>12/20/22</u>	RECEIVING BODY OF WATER: <u>PEACE RIVER</u>
REMARKS:	COUNTY: <u>Charlotte</u>	LOCATION: <u>South Alligator @ Jones loop</u>	FIELD ID/NAME:	

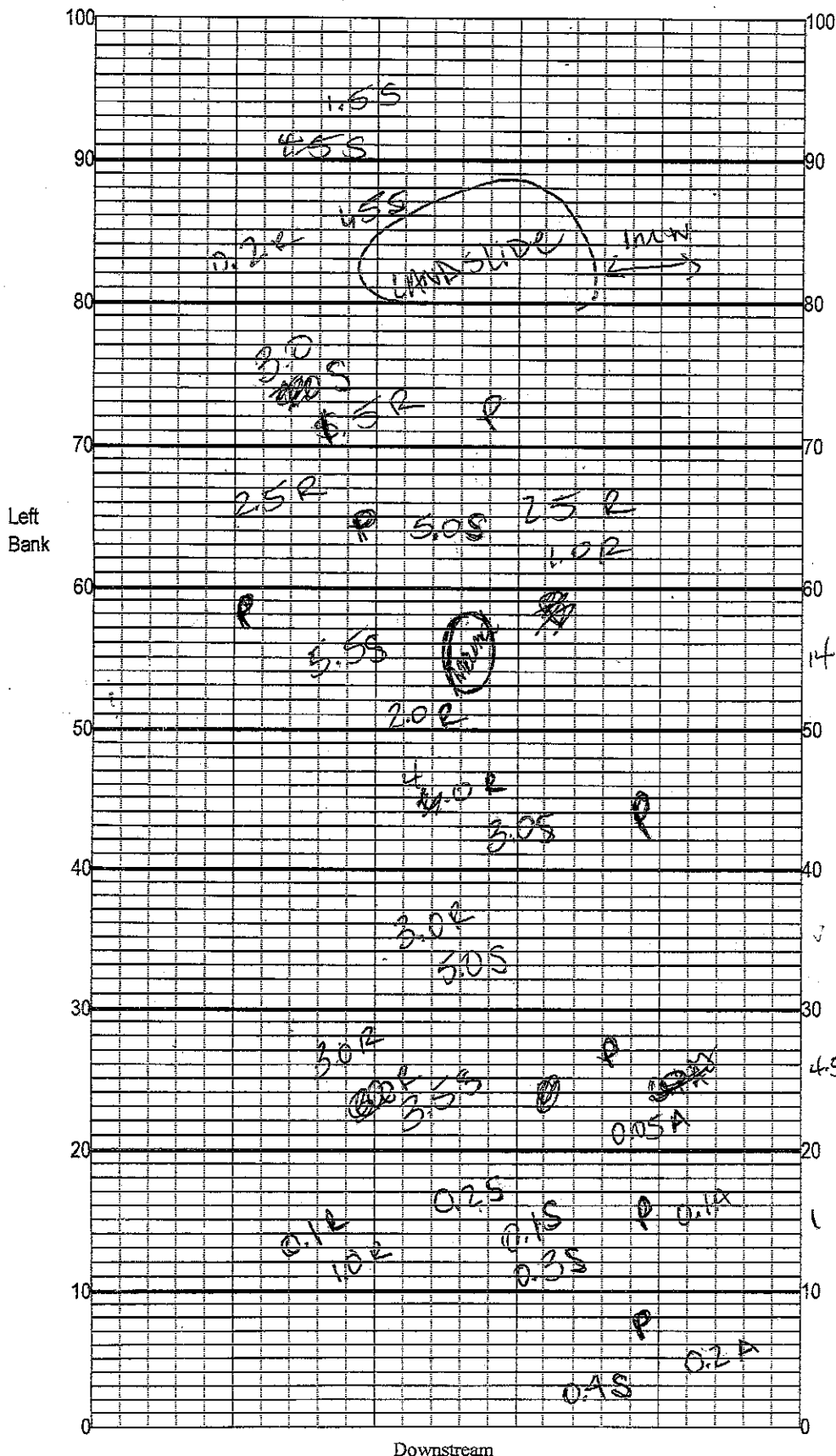
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh 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>8</u>	20 19 18 17 16	15 14 13 12 11	10 9 <u>8</u> 7 6	5 4 3 2 1
Substrate Availability <u>8</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 <u>8</u> 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <u>20</u> 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 <u>12</u> Primary Score <u>48</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 <u>12</u> 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 Artificial Channelization <u>18</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 <u>18</u> 17 16	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered. 15 14 13 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>2</u> ★ Left Bank <u>2</u>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the woody 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 woody root zone with raw, eroded areas. 3 <u>2</u> 1
Riparian Buffer Zone Width Right Bank <u>2</u> Left Bank <u>4</u>	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 <u>4</u>	Less than 6 m of buffer zone due to intensive human activities 3 <u>2</u> 1
Riparian Zone Vegetation Quality Right Bank <u>2</u> Left Bank <u>2</u> Secondary Score <u>32</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 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). <u>PAL</u> 3 <u>2</u> 1

80

TOTAL SCORE

Date: <u>12/20/2022</u>	Analyst: <u>Monica Jaeger</u>	Signature: 
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: G2SD0033
 Date: 12/20/22
 Sampler: Monica Jaeger/Nicole Reistad

100 m: Latitude 26.88416
 Longitude 81.97719
 0 m: Latitude 26.88445
 Longitude 81.97853

Substrates: Code key, draw proportionate habitat abundance. %

☐ S	Snags	<u>4.90</u>
☐ R	Roots/undercut banks	<u>3.42</u>
☐ L	Leaf Packs (or mats)	<u>0.010</u>
☐ A	Aquatic Macrophytes	<u>0.01</u>
☐		
☐		
☐ P	Pools	total # observed = <u>7</u> # range expected = <u>7</u>

Average width 0.36 m 4.0
 Average depth 0.3 m 6.6

Velocity measured at 0 meter mark.

WQ & chemistry taken at 0 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:

$3m / \frac{1}{3} = 0.33$
 A ~~3.0~~ 0.35
 S 24.5
 R 17.1

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: ALLIGATOR SOUTH JONES LEEP County: CHARLOTTE Date: 12/20/22 Investigators: NICOLE REIS

STORET Station Number:
G2SD0033

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	3	N		60	1	2	2	
	2	2				2			
	3	2				3			
	4	2				4			
	5	2		0		5			52
	6	2				6			
	7	2				7			
	8	2				8			
	9	2				9	X		
10	1	2	N		70	1	2	2	
	2	2				2	2		
	3	2				3	2		
	4	2		7		4	2		
	5	2				5	2		12
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	X		
20	1	X			80	1	2	2	
	2	X				2	X		
	3	X				3	X		
	4	X				4	X		
	5	2		96		5	X		96
	6	2				6	X		
	7	2				7	X		
	8	2				8	X		
	9	2				9	X		
30	1	2	N		90	1	2	2	
	2	2				2	X		
	3	2				3	X		
	4	2		93		4	2		96
	5	2				5	2		
	6	X				6	X		
	7	X				7	X		
	8	X				8	X		
	9	X				9	X		
40	1	X			100	1	X		
	2	X				2	X		
	3	2				3	X		
	4	2		75		4	2		96
	5	2				5	2		
	6	2				6	2		
	7	X				7	X		
	8	X				8	X		
	9	X				9	X		
50	1	2	N			1			
	2	2				2			
	3	2				3			
	4	2				4	2		
	5	2		96		5	2		
	6	2				6	2		
	7	2				7	X		
	8	2				8	X		
	9	2				9	X		

Secchi depth 0.3
Estimated? NO

points ranked 4-6 0
total points assessed 65
% points ranked 4-6 0

Check accompanying data collected at same site/date.

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

RQ-2022-11-28-23

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

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%.

၄၇၆၁၆၁

Analyst: NIKKE REISTAD

Signature: [Signature]

Storet Number:	GZSD0033
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Comments: The canopy cover was almost entirely Salix caroliniana and Schinus terebinthifolius.

Bliss

If no Dominant or Co-Dominant were selected, indicate with "X"

Indicate % cover macrophytes per section

0-5% Macrophyte Coverage	X	X	X	/	X	X	X	X	X
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[illegible][illegible][illegible][illegible]