



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: HATCHETT CREEK @ PINEBROOK RD **Date:** 12/7/2021
WIN/Field ID: G3SD0103 **WBID:** 2015A **ENR:** - **Latitude:** 27.0897
County: SARASOTA **Org ID:** 21FLFTM **Longitude:** -82.42
Receiving Body of Water: Sarasota Bay - Peace - Myakka **RQ:** 2021-11-29-30

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Nicole Reistad	x		x		
☒	Monica Jaeger		x		x	x
☒	William Mullen		x		x	x
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: DEEPER BLUER	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# FRIDAY							
Photos: YES		Flow: FLOW		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☒ Algae ID ☒ LVS ☐ LVI Other:													
SBIO ID Numbers:													
Notes:													

Duplicate Sample

Time Zone: EST	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:
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets Migrate Data to WIN: Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-11-29-30

Customer: WQAP

Project ID: SMP

Collected By: Nicole Reistad, Monica Jaeger

Field Report Prepared By: Nicole Reistad

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G3SD0103

Location: HATCHETT CREEK @ PINEBROOK RD

Comments:

Matrix: Fresh

(Check one)

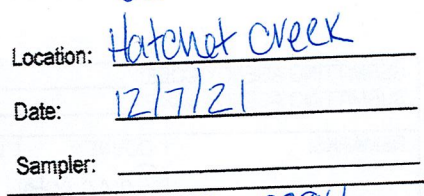
☒ GRAB☐ COMPOSITE

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)		
	950 EST	6.57	72.9	20.2	7.26	0.15	0.3 ☒ VOB (S)	0.3	1383	0.69		
12/7/2021												
	EST											
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 #	SA1105060		Exp:	04/30/22						
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☐ <2	1	A		
		Lot #	NA1105100		Exp:	06/07/22						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #	17232873									
		Syringe Lot #	1091364									
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 #	9.28091819TR		☒ Formalin			2	B		
Periphyton (PT-50ML)		☒ ALGAE-ID				☒ Ice			1	B		
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice						
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice						
		☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice						
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI	☒ WE8321-MS	☒ W-PSNP-TQ	☒ W-CT-CL-R	☒ Ice			10	A		
Phytoplankton/Periphyton		☒ W-PCL-TQ-R ☒ W-CARB-AA (5 ml of MCAA** Buffer Solution)										
		☐ PKD-QN-BV ☐ DTY-QN-C				☐ Ice						
Name: Nicole Reistad Monica Jaeger					Signature:				Date:			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

G3SD0103



10/s $\frac{1}{10} = .1$
 $V = 0.1 \text{ m/s}$

Revision Date: March 1, 2014

DEP-SOP-001/01: Form FD 9000-5
STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
STREAM/RIVER HABITAT ASSESSMENT FIELD SHEET

visit ID 83539

SUBMITTING AGENCY CODE: _____		STORET STATION NUMBER: <u>G3SD0103</u>	DATE (MM/DD/YY): <u>12/07/21</u>	RECEIVING BODY OF WATER: _____
SUBMITTING AGENCY NAME: _____				
REMARKS: _____	COUNTY: <u>Sarasota</u>	LOCATION: <u>Hatenott Creek</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>6</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 <u>6</u>	5 4 3 2 1
Substrate Availability <u>11</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 <u>11</u>	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>10</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>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. 5 4 3 2 <u>1</u>
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>2</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 <u>2</u> 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. 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 <u>4</u>	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. <u>3</u> 2 1
Riparian Buffer Zone Width	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 <u>2</u> 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. Right Bank <u>6</u> <u>9</u> Left Bank ----- Secondary Score <u>36</u> <u>64</u>	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 <u>6</u>	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. <u>5</u> 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

TOTAL SCORE

Date: <u>12/07/2021</u>	Analyst: <u>Nicole Reistad, William Mullen, Monica Jaeger</u>	Signature: <u>[Signature]</u>
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DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID Hatchett Creek ORG ID _____ LATITUDE _____
COUNTY Sarasota STORET # G3SD0103 LONGITUDE _____
DATE 12/7/21 TIME _____ SAMPLING AGENCY FDEP-SD
SITE NAME Hatchett Creek
FIELD ID/NAME G3SD0103 RECEIVING BODY OF WATER Gulf of Mexico

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):							Landscape Development Intensity Index (LDI) 	
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry		Other (Specify)
<u>100%</u>								
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>4.0</u> m wide	
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy								
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>62.1</u> Right Bank: <u>5.3</u>				Hydrologic Modification Score (per FT 3101)			m/s <u>0.10</u> m/s m/s <u>0.1</u> m deep <u>0.3</u> m deep <u>0.1</u> m deep	
High Water Mark: <u>0.4</u> + <u>0.3</u> = <u>0.7</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☒ Yes ☐ No				
Artificiality ☐ No ☒ und				☐ Mostly recovered, more sinuous				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☒ Moderate Shaded (46-80%)
Channelized: ☐ Some recovery ☒ Recent, severe								

SEDIMENT / SUBSTRATE

Sediment Oils ☐ Absent ☒ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Anaerobic ☒ Other (Specify): <u>Sulfur</u>		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 Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.15</u> <u>20.2</u> <u>7.24</u> <u>6.57</u> <u>72.9</u> <u>1383</u> <u>0.69</u> <u>0.3</u> Mid: ☒ VOB Bottom: Meter ID: <u>FRIDAY</u> <u>0.3</u>			
Woody Debris (Snags) <u>0.65</u> <u>6</u> Undercut Banks / Roots <u>0</u> Leaf Packs or Mat <u>0.05</u> Aquatic Vegetation <u>15.34</u> <u>6</u> Rock or Shell Rubble.. <u>0.25</u> <u>4</u> Sand..... <u>21.0</u> <u>4</u> Mud / Muck / Silt <u>62.71</u> Other Other		Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ 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: _____		Water Surface Oils Normal ☐ Sheen ☐ Globs ☐ Slick ☒ Other ☐ Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐	
ABUNDANCE 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

Nicole Reistad, William Mullen, Monica Jaeger SIGNATURE: [Signature] DATE: 12/07/2021

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet										
Site: <u>Hatchet Creek</u> <u>C73SD0103</u>					County: <u>Sarasota</u>		Date: <u>12/7/21</u>		Investigators: <u>W. Nick Jones</u> <u>Monica Soeger</u> <u>Nicole Ralston</u>	
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	STORET Station Number: <u>C73SD0103</u>
0	1	N			60	1	N			98
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		8		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	6				9	6			
10	1	6			70	1	6			88
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		CC		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	6				9	6			
20	1	5			80	1	6			74
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		27		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	6				9	6			
30	1	6			90	1	6			66
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		29		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	6				9	6			
40	1	6			100	1	6			72
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		35		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	6				9	6			
50	1	N				1	N			
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		30		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	6				9	6			

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%.

Secchi depth 2.5
Estimated?

points ranked 4-6 37
total points assessed 99
% points ranked 4-6 37.4%

Check accompanying data collected at same site/date:
Algal mat sample ☒
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☒
Water sample ☒
RQ- 2021-11-24-30

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

[illegible]