



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Fort Simmons Branch

Date: 12/15/2020

WIN/Field ID: G3SD0177

WBID: 3235K1

ENR:

Latitude: 26.7136

County: HENDRY

Org ID: 21FLFTM

Longitude: -81.5181

Receiving Body of Water: Caloosahatchee

RQ- 2020-12-14-48

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Nicole Reistad		x		x	x
☒	Miranda Carroll	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#	
Photos: NO	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: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDMMYYYY)
DI Source: N/A	Location: N/A		
DI Type: N/A	Equipment ID: N/A		

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:



RQ-2020-12-14-48

Customer: WQAP

Project ID: SMP

Collected By: Nicole Reistad, Miranda Carroll

Field Report Prepared By: Nicole Reistad

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G3SD0177

Location: Fort Simmons Branch

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 _h)
12/15/2020	1315 EST	8.51	98.7	22.7	7.9	0.2	0.4 ☒ VOB (S)	0.4	591	0.29

Central Lab please use top row for login purposes

EST										
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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 Lot # SA0038110 Exp: 2/7/21	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3*	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 17024971 Syringe Lot # 0079931	☒ Ice		1	A
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			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☒ Ice		1	A
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ 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 ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			
		☐ Ice			

Name:
Nicole Reistad
Miranda CarrollSignature:
Miranda CarrollDate:
12/15/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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

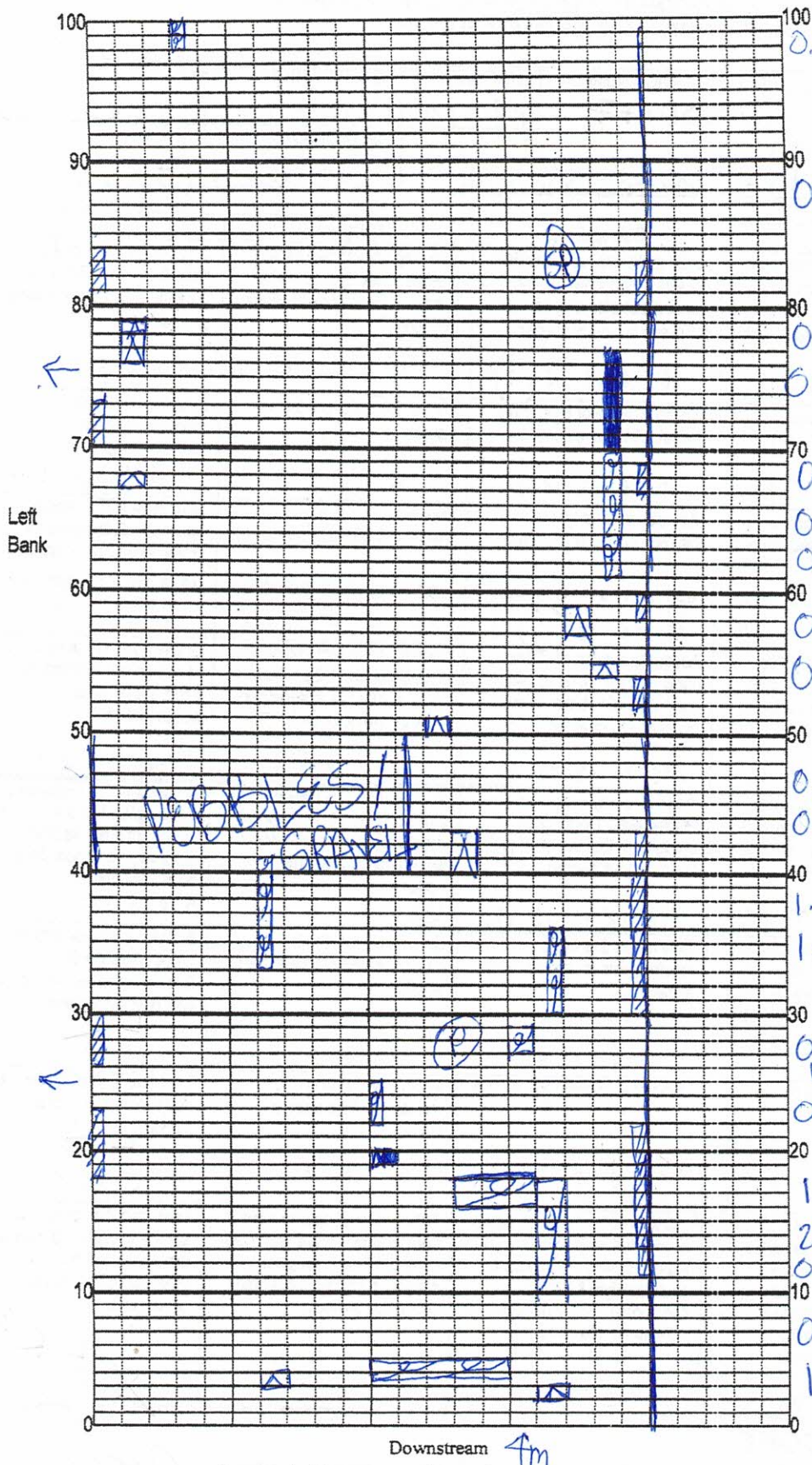
SUBMITTING AGENCY CODE: _____ SUBMITTING AGENCY NAME: _____		STORET STATION NUMBER: <u>G3SD0177</u>	DATE (MM/DD/YY): <u>12/15/20</u>	RECEIVING BODY OF WATER: <u>Caloosahatchee</u>
REMARKS: _____	COUNTY: <u>Hendry</u>	LOCATION: <u>Fort Simmons Branch</u>	FIELD ID/NAME: <u>G3SD0177</u>	

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>11</u>	20 19 18 17 16	15 14 13 12 <u>11</u>	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>3</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 4 <u>3</u> 2 1
Water Velocity <u>12</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 <u>12</u> 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>7</u> ----- Primary Score <u>33</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 <u>7</u> 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>10</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 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. <u>10</u> 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>3</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. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. <u>3</u> <u>2</u> 1
Riparian Buffer Zone Width Right Bank <u>2</u> Left Bank <u>3</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 4	Less than 6 m of buffer zone due to intensive human activities <u>3</u> <u>2</u> 1
Riparian Zone Vegetation Quality Right Bank <u>1</u> Left Bank <u>2</u> ----- Secondary Score <u>23</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>3</u> <u>2</u> <u>1</u>

56 **TOTAL SCORE**

Date: <u>12/15/2020</u>	Analyst: <u>Nicole Reistad, Miranda Carroll</u>	Signature: <u>[Signature]</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Fort Simmons Branch

Date: 12/15/2020

Sampler: Nicole Reistad

100 m: Latitude 26.713894
Longitude -81.518669

0 m: Latitude 26.713966
Longitude -81.519347

Substrates: Code key, draw proportionate habitat abundance.

☒ Snags 2.00

☒ Roots/undercut banks 1.05

☒ Leaf Packs (or mats) 0

☒ Aquatic Macrophytes 0

☒ Rocks 0.675

☐

☒ Pools total # observed = 1
range expected = 2-4

Average width 4 m

Average depth 0.4 m

Velocity measured at 100 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:

5.55/m, 6.55/m

sand/silt 0.15-0.18
m/s

Totals

S 8.0m²

R 4.2m²

L 0

AM 0

^ 2.7 m²

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

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <i>Fort Simmons Branch G3D0177</i>					County: <i>Hendry</i>		Date: <i>12/15/20</i>		Investigators: <i>Miranda Carroll + Nicole Reistad</i>		
STORET Station Number: <i>G3D0177</i>											
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		96		
	2					2			40		
	3					3					
	4			88 62 MC		4			56 MC		
	5			88 62		5			56		
	6			88 62		6					
	7					7					
	8					8					
	9					9					
10	1	N			70	1	N		96		
	2					2			62		
	3					3					
	4			71		4					
	5					5			34		
	6					6					
	7					7					
	8					8					
	9					9					
20	1	N			80	1	N		96		
	2					2			29		
	3					3					
	4					4					
	5			81		5			67		
	6					6					
	7					7					
	8					8					
	9					9					
30	1	N			90	1	N		96		
	2					2			46		
	3					3					
	4					4					
	5			61		5			50		
	6					6					
	7					7					
	8					8					
	9					9					
40	1	N			100	1	N		96		
	2					2			55		
	3					3					
	4					4					
	5			59		5			41		
	6					6					
	7					7					
	8					8					
	9					9					
50	1	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.	1	N				
	2					2					
	3					3					
	4			18		4					
	5			88 MC		5					
	6			88		6					
	7					7					
	8					8					
	9					9					

Secchi depth *0.4*
Estimated?

points ranked 4-6 *0*
total points assessed *11*
% 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-2020-12-14-48

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

Waterbody: <u>Fort Simpson Branch G3SD0177 NR</u>	Date: <u>12/15/20</u>	County: <u>Hendry</u>	Storet Number: <u>G3SD0177</u>
Analyst: <u>Miranda Carroll</u>	<u>7</u>	Signature: <u>[Signature]</u>	
Comments:			

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1m² 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.

Revision Date: January 2017

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

SAMPLE ID — ORG ID 21FLFTM LATITUDE 26.7136
 COUNTY Hendry STORET # — LONGITUDE -81.5181
 DATE 12/15/2020 TIME 1315 SAMPLING AGENCY FDEP-SOROC
 SITE NAME Fort Simmons Branch
 FIELD ID/NAME G3SD0177 RECEIVING BODY OF WATER Caloosahatchee

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>5</u> Silviculture <u>—</u> Field/Pasture <u>25</u> Agricultural <u>50</u> Residential <u>20</u> Commercial <u>—</u> Industry <u>—</u> Other (Specify) <u>—</u>								☒ Landscape Development Intensity Index (LDI) <u>—</u>	
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: <u>6</u> Right Bank: <u>4</u>				Hydrologic Modification Score (per FT 3101) <u>—</u>				Typical Width (m) <u>4</u> Depth (m)/Velocity (m/sec) Transect <u>—</u> m/s <u>0.15</u> m/s <u>—</u> m/s	
High Water Mark: <u>—</u> + <u>0.4</u> = <u>—</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				m deep <u>0.4</u> m deep <u>—</u> m deep <u>—</u>	
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): <u>—</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					
% Coverage Woody Debris (Snags) <u>2.0</u> Undercut Banks / Roots <u>1.05</u> Leaf Packs or Mat <u>0</u> Aquatic Vegetation <u>0</u> Rock or Shell Rubble <u>0.675</u> Sand <u>27</u> Mud / Muck / Silt <u>70</u> Other <u>—</u> Other <u>—</u>			Depth (M) Top: <u>0.2</u> Mid: <u>—</u> Bottom: <u>—</u>			Temp. (°C) <u>22.7</u> pH (SU) <u>7.90</u> D.O. (MG/L) <u>8.51</u> D.O. Sat (%) <u>98.7</u> Cond. (UMHO/CM) <u>591</u> Salinity (PPT) <u>0.29</u> SECCHI (M) <u>0.4</u>		
INVERT # Times Sampled <u>—</u> PERI # Times Sampled <u>—</u>			Meter ID: <u>Friday</u>			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐		
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SA0038110</u> Exp: <u>02/07/21</u>			Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐			Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐		
Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot Number: <u>—</u> Exp: <u>—</u>			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: <u>upstream has old channelization efforts/drains from agricultural fields to the stream.</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.					

SAMPLING TEAM

Nicole Reisted, Miranda Carroll

SIGNATURE:

[Signature]

DATE:

03/31/2021