



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

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Data Qualified?

Yes / No

June 2016

STORET Station Name: Jumping Gully @ FL line Date: 6/28/16
STORET Station ID: GITLH20033 WBID: 3318 Latitude: 30.631707
County: Hamilton RQ: 2016-05-23-29 ORG ID: 21ELTCH Longitude: -83.26654
Receiving Body of Water: Withlacoochee Field ID: GITLH20033

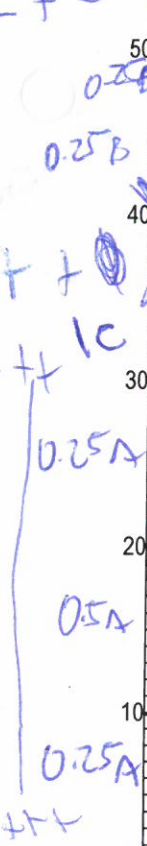
Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Chris Green							☒ Sample Container	☒ Van Dorn	☐ Pole		
Colby Marshall							☐ Carboy	☒ Syringe			
							☐ Dipper	☐ Other			
							Equipment ID				
							Collection Method				
							☒ Wading	☒ Via Boat			
							☐ From Shore	☐ Canoe/Kayak			
							☐ Other (note below)	☐ Electric Motor			
								☐ Gasoline Motor			
Water Level: Dry / <u>Low</u> / Normal / High / Flooded							Matrix: Fresh / Marine / DI				
Meter ID# <u>600XLm #12</u> Photos: <u>Yes</u> / No							Tide Falling: Yes / No / <u>NA</u>				
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)	
EST	1330	0.2	0.4	7.0	90	5.8	0.02	0.45	42	27.7	
CEN											
Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>LVS</u> <u>RPS</u> LVI Other											
Parameter Suite		Parameter Methods				Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☐ H2SO4	<u>SA-5252020</u>	<u>7/16/16</u>	☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2			☐ <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-CI-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice					
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice					
Macroinvertebrates		☒ MI-FW-QLDC				☒ Formalin					
Microbiology		☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR				☐ Ice					
Periphyton		☐ ALGAE-ID				☐ Ice					
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R				☐ Ice					
		☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Other					

Notes: SCI @ 1400

Signature: _____ Date: _____

Place Label Here (If Available)

Field Parameters Entered into LIMS: CM 7/12/16 (Initials/Date)
Date Migrated to STORET: CM 7/12/16 (Initials/Date)
Field Parameters QC in LIMS: cm 7/12/16 (Initials/Date)
Field Sheets Scanned/Saved: CB 7/16/16 (Initials/Date)



7 7 - 2, 4, 2

Plants observed / other notes:

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: <u>Jumping Gulch</u>	Date: <u>6/28/16</u>	County: _____	Storet Number: <u>G1T4+R003</u>
Analyst: <u>Colby Marshall</u>	Signature: <u>Colby Marshall</u>		
Comments: <u>LVS L2mz</u>			

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

[illegible]

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

SAMPLING AGENCY: <u>B034</u>		STORET STATION NUMBER: <u>GITLH20033</u>	DATE (MM/DD/YY): <u>6/28/14</u>	RECEIVING BODY OF WATER: <u>Withlacoochee River</u>
REMARKS:	COUNTY:	LOCATION: <u>Jumping Gulley Creek</u>	FIELD ID/NAME: <u>GITLH20033</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>9</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 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 4 3 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 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>10</u> ----- Primary Score <u>52</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 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 <u>19</u>	20 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 <u>10</u> Left Bank <u>8</u>	10 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 <u>10</u> Left Bank <u>10</u>	10 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 <u>10</u> Left Bank <u>10</u> ----- Secondary Score <u>77</u>	10 9	8 7 6	5 4	3 2 1

129 **TOTAL SCORE**

Date: <u>6/28/14</u>	Analyst: <u>Chris Green</u>	Signature: <u>Chris Green</u>
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DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID GITLHR0033 ORG ID 21 FLTLHR LATITUDE 32 46 30.63171
 COUNTY Hamilton STORET # GITLHR0033 LONGITUDE -83.24658
 DATE 6/28/14 TIME 1400 SAMPLING AGENCY 8034
 SITE NAME Jumping Gully
 FIELD ID/NAME GITLHR0033 RECEIVING BODY OF WATER Withlacouchee River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ 10 Silviculture ☒ 80 Field/Pasture ☒ 10 Agricultural ☐ Residential ☐ Commercial ☐ 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 m wide m/s m/s m/s			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: Right Bank:				Hydrologic Modification Score (per FT 3101)		m/s m/s m/s			
High Water Mark: + = (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		m deep m deep m deep			
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☐ LCI ☐ BioRecon

% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	1.3	7
Undercut Banks / Roots	1.3	7
Leaf Packs or Mat	0.25	2
Aquatic Vegetation		
Rock or Shell Rubble	0.38	2
Sand	96.77	2
Mud / Muck / Silt		
Other		
Other		

Woody Debris (Snags)

1.3

7

Undercut Banks / Roots

1.3

7

Leaf Packs or Mat

0.25

2

Aquatic Vegetation

Rock or Shell Rubble

0.38

2

Sand

96.77

2

Mud / Muck / Silt

Other

Other

ABUNDANCE

Not Obs. Rare Common Abundant

Periphyton:

☒☐☐☐

Fish:

☐☐☒☐

Aquatic Plants:

☒☐☐☐

Iron/Sulfur Bacteria:

☒☐☐☐

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top:								0.4
Mid:	0.2	21.7	5.8	7.0	90	42	0.02	☒ VOB
Bottom:								

Meter ID:

600 XLm # 12

Water Odors Normal ☒ Petroleum ☐
 Sewage ☐ Chemical ☐ Other ☐
Water Sample Taken? ☒ Yes ☐ NoSample Preserved? ☐ Yes ☐ No

Lot Number: SA 5259020 Exp: 9/14

Algae Sample Taken? ☐ Yes ☒ NoSample Preserved? ☐ Yes ☐ No

Lot Number: Exp:

Water Surface Oils Normal ☒ Sheen ☐
 Globbs ☐ Slick ☐ Other ☐
Color Tannic ☒ Green (Algae) ☐Clear ☐ Other (Specify) ☐Clarity Clear ☒ Slightly Turbid ☐Turbid ☐ Opaque ☐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

Chris Green / Colby Marshall

SIGNATURE:

Ch 3

DATE:

6/28/14

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Jumping Gulley County: Date: 6/29/14 Investigators: Marshall / Green

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		
	2			
	3			
	4			
	5			95
	6			
	7			
	8			
	9			
10	1			
	2			
	3			
	4			
	5			88
	6			
	7			
	8			
	9			
20	1			
	2			
	3			
	4			
	5			87
	6			
	7			
	8			
	9			
30	1			
	2			
	3			
	4			
	5			82
	6			
	7			
	8			
	9			
40	1			
	2			
	3			
	4			
	5			93
	6			
	7			
	8			
	9			
50	1			
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9			

STORET Station Number: GILCHR0033

Secchi depth 0.4 (5)
Estimated?

points ranked 4-6 0
total points assessed 99
% points ranked 4-6

Check accompanying data collected at same site/date.
Algal mat sample ☒
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☒
Water sample ☒
RQ- 2016-05-23-29

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%.