



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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Data Qualified?
Yes ☒ No ☐

STORET Station Name: COCKROACH CREEK

Date: 3-23-16

(mm/dd/yyyy)

STORET Station ID: G1SW0047 2739390823006

Latitude: 27.6608611

(Decimal Degrees)

WBID: 1788 RQ: 2016-03-21-52 ORG ID: 21FLTPA

Longitude: 82.501527

(Decimal Degrees)

Receiving Body of Water: TAMPA BAY

Field ID: G1SW0047

County: HILLS

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JUDY ASHTON				X	X	
STEPHEN CLINGEMAN		X	X			

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ 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: <u>Fresh</u> / Marine / DI
Meter ID# <u>LIC 50N</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	10:40	0.2	0.2	3.5	35	7.1	0.4	0.2	776	15.7
CEN								100		

Biological Samples Collected:	None	HA	SCI	LVS	RPS	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			☐ <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			
BOD	☒ BOD-UNIN						☒ Ice			
Physical/Aggregate (Kit A)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS						☒ Ice			
Physical/Aggregate (Kit B)	☐ Alkalinity / W-F / W-TSS / TURBIDITY						☐ Ice			
Macroinvertebrates	☐ M-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: <u>WATER LEVEL TOO LOW FOR SCI</u> <u>MIN. FLOW, STAGNANT IN SOME</u> <u>STRETCHES, VERY SHALLOW</u> <u>LEAF MATS WERE FRESH</u>	RQ-2016-03-21-52 Date: 03/23/16 Time:
Signature: _____	Date: _____

Field Parameters Entered into LIMS: <u>Steph Clingeman</u> <u>03/23/2016</u> (Initials/Date)	Field Parameters QC in LIMS: _____ (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date)	Field Sheets Scanned/Saved: _____ (Initials/Date)

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

SUBMITTING AGENCY CODE: _____		STORET STATION NUMBER: <u>8739390823000</u>	DATE (MM/DD/YYYY): <u>03/23/16</u>	RECEIVING BODY OF WATER: <u>Tampa Bay</u>
SUBMITTING AGENCY NAME: _____				
REMARKS:	COUNTY: <u>HILLS.</u>	LOCATION: <u>COCKPOACH CREEK</u>	FIELD ID/NAME: <u>G1SW0047</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>3</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <u>3</u> 2 1
Substrate Availability <u>5</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 <u>5</u> 4 3 2 1
Water Velocity <u>5</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 <u>5</u> 4 3 2 1
Habitat Smothering <u>11</u> Primary Score <u>24</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 <u>11</u>	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>17</u>	20 19 18 <u>17</u> 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>8</u> Left Bank <u>8</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. 3 2 1
Riparian Buffer Zone Width Right Bank <u>9</u> Left Bank <u>9</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 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>9</u> Left Bank <u>8</u> Secondary Score <u>68</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). 3 2 1

82

TOTAL SCORE

Date: <u>3/23/16</u>	Analyst: <u>Mely Ashton, Stephen Clingerman</u>	Signature: _____
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Site: LOCHLOCH CREEKCounty: AlachuaDate: 3-23-16Investigators: J. Ashman, S. Cunningham

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover
0	1	N	%	40	1	N	%	80	1	N	%
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	
10	1	N	%	50	1	N	50	90	1	N	%
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	
20	1	N	%	60	1	N	%	100	1	N	%
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	
30	1	N	%	70	1	N	50		1	N	
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	

Record "N" for points deeper than the Secchi depth; algae are presumed absent. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. Note if thickness estimated for deep points which can be seen but not reached.

Record canopy cover as the number of small densimeter quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect an 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%.

Algal Thickness Rank

N	rough, no algae; slimy; algae to 1 mm
3	>1 mm - 6 mm
4	>6 - 20 mm
5	>20 mm - 10 cm
6	>10 cm

Secchi depth: 0.2

Check accompanying data collected at same site/date.

Algal mat sample	
Habitat Assessment	
Linear Veg. Survey	X
SCI/Biorecon (circle 1)	
Water sample	X

RO: 2016-03-21-

# points ranked 4-6	1
total points assessed	99
% points ranked 4-6	1

Location		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	RQ-2016-03-21-52	Date: 03/23/16	Time: 10:40	Diss. Oxygen	3.5	Total Res. Chlorine	776
STORET #				Sp. Conductance	776		
Latitude		Longitude		Comments			
Location		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
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Latitude		Longitude		Comments			

Relinquished By:	Date/Time	Shipping Method	Received By:	Date/Time
Judy Ashton	3-23-16 5:00	FED EXP		

Group: A	Bottle Type:	P-1L	# of Bottles:	Preservative:	ICE	Enter Number of Bottles Sent to Lab
BOD-UNIN						
Group: A	Bottle Type:	BP-1L	# of Bottles:	Preservative:	ICE	Enter Number of Bottles Sent to Lab
CHLSUITE-W						
Group: A	Bottle Type:	P-1L	# of Bottles:	Preservative:	ICE	Enter Number of Bottles Sent to Lab
TURBIDITY						
	W-ALK					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
ICE And H2SO4						
Group: A	Bottle Type:	P-500ML	# of Bottles:	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
W-NH3						
W-NO2NO3						
W-S-A-TP						
W-TKN						
W-TOC						
W-PO4-F						
Group: A	Bottle Type:	P-125ML	# of Bottles:	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab

Group B 50ml ALGAR 10 RANK 5 1

" " " 6 1