



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Gamble Creek @ Golf Course Rd

Date: 05/08/2019

(mm/dd/yyyy)

WIN/ Field ID: G2SW0107

WBID: 1819

Latitude: 27.55315

(Decimal Degrees)

County: Manatee

ORG ID: 21FLTPA

Longitude: -82.38989

(Decimal Degrees)

Receiving Body of Water: Little Manatee River

RQ-2019- 05-06-08

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater							X	X	X	
Sarah Meyer						X	X	X		

Sampling Equipment									
☒ Sample Container	☐ Van Dorn	☐ Pole							
☐ Carboy	☐ Syringe								
☐ Dipper	☐ Other								
Depth Measured with: Secchi									
Equipment ID: Secchi #1									

Collection Method									
☒ Wading	☐ Canoe/Kayak								
☐ From Shore	☐ Electric Motor								
☐ Other	☐ Gasoline Motor								

Water Level: Dry/ Pooled/ <u>Low</u> / Normal / High / Flooded						Meter ID# <u>Chewy</u>		Matrix: <u>Fresh</u> / Marine / DI		
Photos: Yes / <u>No</u>		Flow: No Flow / Interstitial / <u>Flowing</u> / NA				Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High <u> </u> Low <u> </u>		
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1100</u>	<u>0.4</u>	<u>0.15</u>	<u>0.45</u>	<u>7.94</u>	<u>96.0</u>	<u>7.58</u>	<u>0.22</u>	<u>467.3</u>	<u>24.9</u>

Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>RPS</u> <u>Algae ID</u> <u>LVS</u> <u>LVI</u> Other:									
SBIO ID Numbers: SBIO-ID: <u>79827</u> HA-ID: <u>16069</u> RPS-ID: <u>9373</u> Macrophyte-ID: <u>11382</u> LIMS#: <u>2085179</u>									

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H2SO4	<u>SA8344070</u>	<u>12/10/19</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: E.coli

Field ID/WIN: G2SW0107

Site Name: Gamble Creek @ Golf Course Rd

Signature: Sarah Meyer

Date: 05/08/2019

LIMS EVENT ID: 2019-05-09-01

WIN Import ID: 14359

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 06/18/2019

QC Station ID, Field Parameters In LIMS DMT: SM 07/23/2019

Scan/Save Field Sheets SM 01/15/2020

Migrate Data to WIN: SM 09/04/2019

Verify Data In WIN: SM 01/15/2020

(Initials/Date)

(Initials/Date)

(Initials/Date)



Site Name: Gamble Creek @ Golf Course Rd

21FLTPA

LATITUDE

LONGITUDE

SITE NAME see sticker

TIME

SAMPLING AGENCY FDEP SW ROC

DATE 05/08/2019

RECEIVING BODY OF WATER

Manatee River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural 10 Silviculture Field/Pasture 20 Agricultural 60 Residential 10 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 4.0 m wide
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: 718 Right Bank: 18				Hydrologic Modification Score (per FT 3101)		0.17 m/s 0.17 m/s 0.17 m/s	
High Water Mark: 2.0 + 0.4 = 2.4 (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		0.3 m deep 0.4 m deep 0.3 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 ☒				
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY							
% Coverage Woody Debris (Snags) Undercut Banks / Roots Leaf Packs or Mat Aquatic Vegetation Rock or Shell Rubble.. Sand..... Mud / Muck / Silt Other Other			Depth (M) Top: Mid: Bottom: 0.15	Temp. (°C) 24.9	pH (SU) 7.58	D.O. (MG/L) 7.94	D.O. Sat (%) 96.0	Cond. (UMHO/CM) 467.3	Salinity (PPT) 0.22	SECCHI (M) 0.1 ☒ VOB TOTAL DEPTH 0.4
Meter ID: Chewy			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: _____ Exp: _____			Color Tannic ☒ Green (Algae) ☐ Clear ☒ Other (Specify)			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐				
Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot Number: _____ Exp: _____			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: ☒ ☐ ☐ ☐			☒ The antecedent hydrologic conditions have been met to my best knowledge.							
SAMPLING TEAM Ben Paswater, Sarah Meyer			SIGNATURE: Ben Paswater			DATE: 5/8/19				



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

Site Name: **Gamble Creek @ Golf Course Rd**STORET STATION
NUMBER: see sticker

DATE (MM/DD/YY):

05/08/2019

SAMPLING AGENCY:

FDEP SWROC

FIELD ID/NAME: see sticker

LOCATION:

COUNTY:

RECEIVING BODY OF WATER:

Manatee River

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>1</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 <u>1</u>
Substrate Availability <u>1</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 <u>1</u>
Water Velocity <u>13</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 <u>13</u> 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>11</u> ----- Primary Score <u>26</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>16</u>	20 19 18 17 <u>16</u>	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>2</u> Left Bank <u>2</u>	10 9	8 7 6	5 4	3 <u>2</u> 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>9</u> Left Bank <u>9</u>	10 <u>9</u>	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>4</u> Left Bank <u>4</u> ----- Secondary Score <u>46</u>	10 9	8 7 6	5 <u>4</u>	3 2 1

72

TOTAL SCORE

Date: 05/08/2019

Analyst: Sarah Meyer Ben Paswater

Signature: Sarah Meyer

Site Name: **Gamble Creek @ Golf Course Rd**

County:

Waterbody: **See Sticker**

Date:

Signature:

Analyst:

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. **BOLD is exotic invasive**

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Alternanthera philoxeroides				X	X	X						Micranthemum glomeratum											
Bacopa caroliniana (Lemon)												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum	X			X	X			X			
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nitella sp.											
Centella asiatica												Nuphar luteum											
Ceratophyllum demersum												Orontium aquaticum											
Chara sp.												Panicum hemitomon											
Cicuta maculata												Panicum repens											
Cladium jamaicense												Panicum rigidulum											
Colocasia esculenta												Pistia stratioides											
Commelina diffusa												Polygonum glabra				X							
Commelina virginica	X	X	X	X	X	X	X	X	X	X		Polygonum hydropiperoides											
Crinum americanum												Polygonum punctatum											
Cyperus												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex (Mex Petunia)											
Eleocharis (wispy viviparous)												Sacciolepis striata											
Fontinalis sp. (Aquatic Moss)								X				Sagittaria kurziana											
Fraxinus caroliniana												Sagittaria lancifolia											
Hydrilla verticillata		X		X	X	X	X			X		Sagittaria latifolia											
Hydrocotyle sp.												Salvinia minima											
Hygrophila polysperma												Samolus parviflora											
Hymenachne amplexicaulis												Saururus cernuus											
Hymenocallis												Sparganium americanum											
Lachnanthes caroliniana												Schoenoplectus americanus											
Landoltia punctata												Sphagneticola trilobata (Wedelia)											
Lemna sp.					X	X						Typha sp.											
Limnophila sessiflora												Urochloa mutica (Brachiaria)		X	X	X	X	X	X	X	X		
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana																							
Ludwigia repens												<i>Echinoc</i>											
Luziola fluitans																							
<i>Ludwigia grandiflora</i>						X																	
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	X	X													
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							



Site Name:

Gamble Creek @ Golf Course Rd

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Investigators:

County:

STORET Station Number: see label

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	6			60	1	5		
	2	2				2	6		
	3	2				3	6		
	4	6				4	4		
	5			2		5	3		13
	6					6	3		
	7					7	4		
	8					8	4		
	9					9	4		
10	1	6			70	1	6		
	2	3				2	3		
	3	2				3	N		
	4	6		14		4			
	5	6				5			51
	6	2				6			
	7	6				7	N		
	8	3				8	3		
	9	6				9	5		
20	1	6			80	1	6		
	2	2				2	N	E	
	3					3			
	4					4			15
	5	6		37		5			
	6					6			
	7	2				7			
	8					8	N		
	9	6				9	4		
30	1	6			90	1	N		
	2					2			
	3					3			
	4					4			89
	5			11		5			
	6					6			
	7					7			
	8					8			
	9	6				9	3		
40	1	N			100	1	N		
	2					2			
	3					3			
	4					4			0
	5			9		5			
	6					6			
	7					7			
	8					8	3		
	9	N				9	10		
50	1	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%.				
	2	2							
	3	6							
	4	4							
	5	3		48					
	6	4							
	7	4							
	8	6							
	9	6							

Secchi depth	
Estimated?	No

# points ranked 4-6	44
total points assessed	
% points ranked 4-6	44

Check accompanying data collected at same site/date.

Algal mat sample

Linear Veg Survey

Habitat Assessment

SCI/Biorecon

Water sample

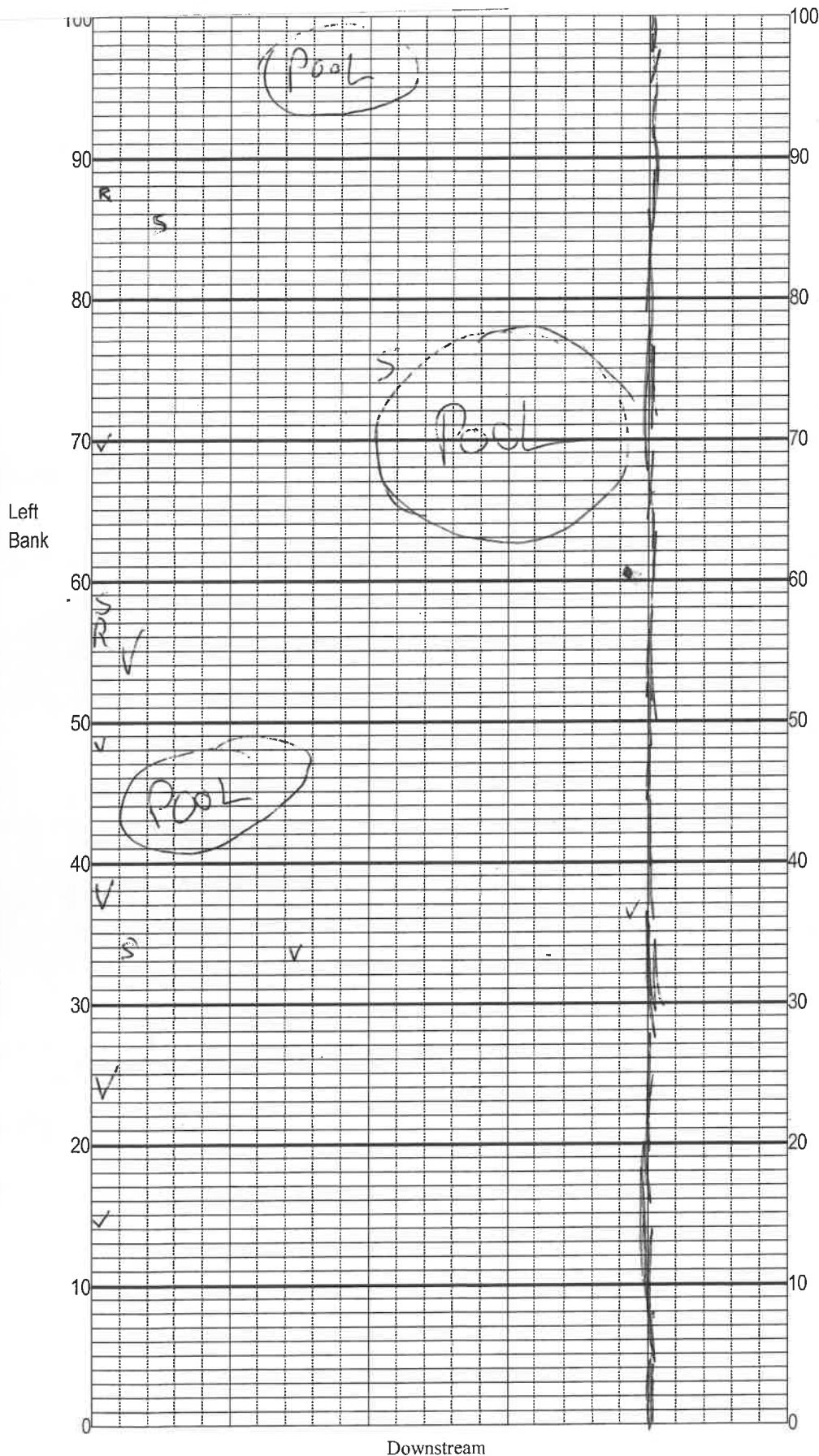
RQ-

Algal Thickness Rank

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



Site Name: Gamble Creek @ Golf Course Rd

Location: 5Date: Ben Pgs waterSampler: Ben Pgs water100 m: Latitude _____
Longitude _____0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance.



Snags

few



Roots/undercut banks

few



Leaf Packs (or mats)



Aquatic Macrophytes

6%



ROCKS

Few



Pools

total # observed = 3
range expected = 2-4Average width 0.50 mAverage depth 0.3 mVelocity measured at 50 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:

12

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

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SW-DIST

Requester: Benjamin Paswater

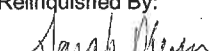
Field Report Prepared By: S Meyer

Project ID: SMP

Collected By: B Paswater & S Meyer

Sampling Agency: FDEP SW RCC

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/08/2019 Time 1200	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID/WIN G2SW0106 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 6.44	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
Site Name: Gamble Creek @ Mulholland Rd		Temp (C) 28.3	pH 7.25	Sample Depth 0.2	☐ ft ☒ m	Sp. Conductance (umho/cm) 6376
☐ dms		☐ dd ☐ dms	Salinity (ppt) 3.46	Comments		
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/08/2019 Time 1100	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID/WIN G2SW0107 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.94	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
Site Name: Gamble Creek @ Golf Course Rd		Temp (C) 24.9	pH 7.58	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 467.3
☐ dms		☐ dd ☐ dms	Salinity (ppt) 0.22	Comments		
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/08/2019 Time 0950	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID/WIN G2SW0100 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 6.55	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
Site Name: Lil Manatee River N. Fork @ Carlton Lake Rd		Temp (C) 24.7	pH 7.20	Sample Depth 0.1	☐ ft ☒ m	Sp. Conductance (umho/cm) 648
☐ dms		☐ dd ☐ dms	Salinity (ppt) 0.31	Comments		
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/08/2019 Time 1220	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID/WIN G2SW0040 		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 5.02	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____
Site Name: Mill Creek @ Upper Manatee Rvr Rd		Temp (C) 28.3	pH 7.17	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 17751
☐ dms		☐ dd ☐ dms	Salinity (ppt) 10.43	Comments		

Relinquished By: 	Date/Time 05/08/2019 1700	Shipping Method FedEx	Number of Coolers Shipped: 2	Received By:	Date/Time
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Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SW-DIST

Requester: Benjamin Paswater

Field Report Prepared By: S Meyer

Project ID: SMP

Collected By: B Paswater & S Meyer

Sampling Agency: FDEP SW ROC

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 05/08/2019 Time 10:15		Eastern Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID/WIN G2SW0103		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.75		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
Site Name: Lil Manatee River @ Saffold Rd		Temp (C) 23.7		pH 6.76		Sample Depth 0.3		Sp. Conductance (umho/cm) 204.6			
☐ dms		☐ dd ☐ dms		Salinity (ppt) 0.10		Comments					
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude H		☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments			

Relinquished By: Sarah Meyer	Date/Time 05/08/2019 1700	Shipping Method FedEx	Number of Coolers Shipped:	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	SW-BEA-ECQ						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
	W-CARB-AA						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-CT-CI-R						
	W-PCL-SQ-R						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI						
	W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						

H2SO4
LOT# SA8344070
EXP: 12/18/2019

Group: A	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>4</u>
Group: B	Bottle Type: SW-BEA-ENQ	P-250ML-WI-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>3 to Benchmark</u>
Group: C	Bottle Type: PCR-FILTER	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: C	Bottle Type: SW-BEA-ENQ	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>1 to Benchmark</u>
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>2</u>

+ PCR - Filter 1
PCR - HF183 1
PCR - BACA 1
All in
1
Bottle

Benchmark EnviroAnalytical, Inc
1711 12th Street East
Palmetto, FL 34221
941-723-9986
941-723-6061 Fax

RQ - 2019-05-06-08

Project Name:

Client Information:	FDEP SW RCC
Address:	13051 N Telecom Pkwy
	Tampa FL 33637
Phone #	813-470-5700
Fax #	
Email	Judy.Ashton@dep.state.fl.us / DEPoverflow
Laboratory Submission #	19050392

Sample Name	Sample Type ¹ / Sample Matrix ²	Collection		Container			Preservative ⁴	Parameters for Analysis	Laboratory Sample #
		Date	Time	Qty	Capacity	Type ³	Lab Preserved ☐		
G2SW0106	G/SSW	05/08/2019	1200	1	250 mL	P	Ice	Enteroc	1
G2SW0107	G/SFW		1100	1		P		E Coli	2
G2SW0100	G/SFW		950	1		P		E Coli	3
G2SW0040	G/SSW		1220	1		P		Enteroc	4
G2SW0103	G/SFW		1015	1		P		E Coli	5

¹ "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
² "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil, sediment (SDMNT), or sludge (SLDG).
³ "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
⁴ Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F).
 Under "Preservative," list any preservatives that were added to the sample container.

Instructions:

- Each bottle has a label identifying sample ID, preservative contained in the bottle, sample type, client ID, and parameters for analysis.
- The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
- All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
- The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

1 Collected By: Sarah Mayn		Date	Time	Received By:		Laboratory Sample Acceptability:	
		05/08/19	1220			pH < 2: ☒ Temperature: 3.4°C	
2 Relinquished By: Sarah Mayn		Date	Time	Received By: [Signature]		Date	Time
		05/08/19	134			5/8/19	1340