



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Double Bayou 800m upstream from Lake Wimico **Date:** 8/24/2021
WIN/Field ID: G2TLHR0003 **WBID:** 1262 **ENR:** - **Latitude:** 29.791
County: GULF **Org ID:** 21FLTLHR **Longitude:** -85.11
Receiving Body of Water: Apalachicola - Chipola **RQ:** 2021-03-15-35

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Jade Burtchett	x		x		
☒	Jonathan Woods		x		x	x
☐						
☐						

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

Water Level: ☐ Normal ☐ Low ☒ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# 154177							
Photos: YES		Flow: FLOW		Tide: RISING		Tide Times: High: 1015 Low: 1247							
Biological Samples Collected: ☐ None ☒ HA ☐ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:													
SBIO ID Numbers:													
Notes: P.CLOUDY													

Duplicate Sample

Time Zone: EST	Time: _____	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID: _____			

Blank

Time Zone: EST	Time: 1200	Field ID: FB_08242021	(Blank Type_DDMMYYYY)
DI Source: C110E		Location: At site	
DI Type: Field Blank		Equipment ID: _____	
DI Container (Name/ID): A-1 DI Container Type: Carboy			

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-2021-03-15-35

Customer: WQAP

Project ID: SMP

Collected By: Jade Burtchett, Jonathan Woods

Field Report Prepared By: Jade Burtchett

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G2TLHR0003

Location: Double Bayou 800m upstream from Lake Wimico

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)				
	1100 EST	1.33	16.6	26.7	5.76	0.3	0.8 ☐ VOB (S)	4.8	119	0.05				
8/24/2021							Central Lab please use top row for login purposes							
	1105 EST	1.17	14.5	26.1	5.71	4.3			119.3	0.05				
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 #	1105060	Exp:	04/30/22									
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☐ <2	1	A				
		Lot #	1105100	Exp:	06/07/22									
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A				
		Filter Lot #	17162587											
		Syringe Lot #	0079900											
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 #		☐ 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	☒ W-E8321-MS	☒ W-PSNP-TQ	☐ W-CT-CL-R	☒ Ice			3	A				
		☐ W-PCL-TQ-R	W-CARB-AA (5 ml of MCAA** Buffer Solution)											
Phytoplankton/Periphyton						☐ Ice								



RQ- 2021-03-15-35

Customer: WQAP

Project ID: SMP

Collected By: Jade Burtchett, Jonathan Woods

Field Report Prepared By: Jade Burtchett, Jonathan Woods

Sampling Agency: FDEP

BLANK



Field ID: FB 08242021

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: C110E

8/24/2021

1200

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 # 1105060 Exp: 04/30/22				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP	☒ Ice ☐ H2SO4	☐ <2	1	A
	Lot # 1105100 Exp: 06/07/22				
Filtered Nutrients (P125ML)	☒ W-PO4-F Filter ☒ Field Filtered 0.45 µm	☒ Ice		1	A
	Filter Lot # 17162587				
	Syringe Lot # 1091364				
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-IC / TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☒ W-E8321-DI ☒ W-E8321-MS ☒ W-PSNP-TQ ☐ W-CT-CL-R	☒ Ice		3	A
	☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				
Name: Jade Burtchett Jonathan Woods		Signature:		Date:	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet

Location: Double Bay 1/00

Date: 08/24/21

Sampler: Bustchett Woods

100 m: Latitude _____

Longitude

0 m: Latitude

Longitude _____

Substrates: Code key, draw

☒ 22

☐ 0

☐ *Not applicable*



12 D. 14

□ 21 9/51

total # observed =

Pools	total # observed = _____
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Average width **35** m

Average depth 4.8 m

Velocity measured at 100 meter mark.

WQ & chemistry taken at 100 meter mark

Habitat Smothering:

Bank Stability:

Riparian Buffer Width:

Plants observed / other notes:

Clad. um

5-1-1971

Handwritten text: *E. Chadwick*

Salvatore

Ported out

Nephel

adams

15.0000

Sdg.

4-1-12

 $72-A = 1.2$

Length of grid represents 100 m of stream (not linear meter

Field/WIN ID ➔



G2TLHR0003

Location

Double Bayou 800m upstream from Lake Wimico

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

SAMPLING AGENCY: <u>21FTHLR</u>		STORET STATION NUMBER: <u>G2TLH0003</u>	DATE (MM/DD/YY): <u>08/24/21</u>	RECEIVING BODY OF WATER: <u>Lake Wimpco</u>
REMARKS:	COUNTY: <u>Gulf</u>	LOCATION: <u>Dable Bayou</u>	FIELD ID/NAME: <u>G2TLH0003</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>8</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>2</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>11</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>18</u> Primary Score <u>39</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>20</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>10</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>80</u>	10 9	8 7 6	5 4	3 2 1

119

TOTAL SCORE

Date: <u>08/24/21</u>	Analyst: <u>Burtchett, Woods</u>	Signature: <u>[Signature]</u>
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DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID _____ ORG ID 21FLTLHR LATITUDE _____
 COUNTY Gulf STORET # _____ LONGITUDE _____
 DATE 08/24/21 TIME 1100 SAMPLING AGENCY 803C/
 SITE NAME Double Bayou 800m upstream from Lake Wimico
 FIELD ID/NAME G2TLHR0003 RECEIVING BODY OF WATER Lake Wimico

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>100</u> Silviculture _____ Field/Pasture _____ 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 _____ m deep _____ m deep _____ m deep			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>715</u> Right Bank: <u>718</u>				Hydrologic Modification Score (per FT 3101) _____			
High Water Mark: <u>0.7</u> + <u>4.8</u> = <u>5.5</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No			
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																																																
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ABUNDANCE			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____																																																
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Periphyton:	☒	☐	☐	☐																																															
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Iron/Sulfur Bacteria:	☒	☐	☐	☐																																															

SAMPLING TEAM

Burtchett, Woods

SIGNATURE :

Gide

DATE :

08/24/21

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Double Bayou County: Gulf Date: 08/21/21 Investigators: Burichett Woods

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			N		
	3					
	4					
	5					
	6					
	7					
	8					
	9					
10	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
20	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
30	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
40	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
50	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
60	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
70	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
80	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
90	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
100	1			N		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					

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%.

STORET Station Number: G25U+R0003

Secchi depth 0.8
Estimated?

points ranked 4-6 0
total points assessed 6
% 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- 2021-03-1535

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

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

Waterbody: Double Bayou

Date: 8/24/21 County: Gulf

Storet Number: **6-25** 214R003

Analyst: W002

Signature: _____

Comments:

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]