



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes ☒ No ☐

WIN Station Name:		Hobbs Branch				Sample Date:		4/24/2023	
WIN / Field ID:	G4NW0039	ORG ID:	21FLPNS	ENR:		Latitude:	30.98661		
County:	Escambia	WBID:	8	STREAM		Longitude:	-87.39418		
Receiving Body of Water:		Escambia River				RQ-	2023-04-24-17		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera	x	x	x		
Myranda Butler		x		x	x

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
	Syringe Lot# 136514		Filter Lot# 17460495
	Secchi Equipment ID: Secchi - 2		
Collection Method			
x	Wading		Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
	Depth Measured With Meter		

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	154179 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
CEN	1010	0.421	0.3	7.87	81.6	17.1	5.19	0.421	29.7	0.01
								VOB (s)		

Biological Samples Collected:		HA LVS RPS SCI								
SBIO Visit ID: 86744		HA ID: 18376		RPS ID: 10102		Macrophyte ID: 12433		LIMS Sample ID Entered Into The Macrophyte Module: 2402984		

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
				Type	Lot#	Expiration Date	pH Check	
Microbiology	E. coli	Contract Lab	UWF	ICE				
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE				
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syringe Lot#:136514; Filter Lot#:17460495			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA2145160	06/02/2023	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA1105100	06/07/2023	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates	MI-FW-QLDC			Formalin	-			
Organics (GC)	W-PSNP-TQ			Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise			
Molecular								
Periphyton	Algal ID							
Phytoplankton								
BOD								
DOC					SyringeLot#		FilterLot#	
Other(s)								
Field Comments:	<2 meters vegetation, LVS not appropriate. Severe algae and silt smothering. / SCI Collection Time: 1030 / Algal ID Collection Time:							
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.							
Relinquish Date:	04/24/2023	Signature:						

LIMS EVENT ID: _____	WIN Import ID: _____
Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date)	QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)
Save Field Sheets on Network: _____ (Initials/Date)	Migrate Data to WIN: _____ (Initials/Date)

Site Name Hobbs Branch

Date: 04/24/2023

WIN ID G4NW0039

Field ID G4NW0039

Project: SMP / TMDL Studies

Visit ID 86744

~~RQ: 2023-04-25-17~~

RPS ID 10102

LIMS ID: 2402984

Macro ID 12433

WBID: 8

HA ID 18376

RQ-2023-04-24-17

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO Initial SS

☒ Date and Initial QA: FB 5/22/23

☒ HA entered in SBIO Initial SS

☒ Date and Initial QA: FB 5/22/2023

☒ RPS entered in SBIO Initial SS

☒ Date and Initial QA: FB 5/22/2023

☒ LVS entered in SBIO Initial SS

☒ Date and Initial QA: FB 5/22/2023

☐ < 2 m² vegetation

☒ Plants getting verified

Date submitted: ✓

☒ Plants verified

Date returned: ✓

☒ RPS authorized in SBIO

☒ Date and Initial: 5/22/2023 / FB

☒ RPS score: 9.09

☒ Macro authorized in SBIO

☒ Date and Initial: 5/22/2023 / FB

☒ LVS Score: FLEPPC = 0, Avg. Col 8.24

☒ SCI complete: M. Heyn 10/04/2023 SCI Score: 75

☒ Add SBIO-ID, HA-ID, RPS-ID, MACROPHYTE-ID and LIMS# to field sheet in database

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

SAMPLE ID 86744 ORG ID 21FLPNS LATITUDE -80.98764 30.98668
 COUNTY Escambia WIN ID/STORET # G4NW0039 LONGITUDE -87.39451 87.394175
 DATE 4/24/2023 TIME 10:10 CTZ _____ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Hobbs Branch above CR 100 RQ- 2023-04-24-17
 FIELD ID/NAME G4NW0039 RECEIVING BODY OF WATER Canoe Ck. -> Escambia R. WBID 8 Project: SMP / TMDL Studies

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2402984

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ Silviculture ☒ Field/Pasture ☒ Agricultural ☒ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐							Landscape Development Intensity Index (LDI) N/A
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 61 m ☒ 4.0 m wide ☒ 0.3 m/s ☐ 1.3 m/s ☐ m/s ☐ m deep ☒ 0.4 m deep ☐ m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>714</u> Right Bank: <u>710</u>				Hydrologic Modification Score (per FT 3101) <u>1-2</u>			
High Water Mark: <u>2.0</u> + <u>1.0</u> = <u>3.0</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No			
Artificially Channelized: ☒ No ☐ Mostly recovered, more sinuous ☐ 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 Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.3</u> <u>17.1</u> <u>5.19</u> <u>7.87</u> <u>81.6</u> <u>29.7</u> <u>0.01</u> <u>0.5</u> Mid: _____ Bottom: _____ Meter ID: <u>147 154179</u>		
Woody Debris (Snags) <u>16.4</u> <u>4</u> Undercut Banks / Roots <u>9.7</u> <u>4</u> Leaf Packs or Mat <u>1.2</u> <u>4</u> Aquatic Vegetation <u>0.8</u> <u>4</u> Rock or Shell Rubble..... Sand..... <u>72.7</u> <u>4</u> Mud / Muck / Silt Other Other			Water Odors Normal ☒ Petroleum ☐ Sewage ☒ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____ Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____		
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☐ ☐ ☒ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☐ ☒ ☐ Iron/Sulfur Bacteria: ☐ ☒ ☐ ☐			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: Severe algae & silt smothering. Braided System ☒ The antecedent hydrologic conditions have been met to my best knowledge.		
SAMPLING TEAM: Frank Butera, Myranda Butler			SIGNATURE: <u>[Signature]</u> DATE: <u>4/24/2023</u>		

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

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

[illegible]

Substrates: Code key,
draw proportionate habitat
abundance.

Substrates: Code key,
draw proportionate habitat
abundance.

Snags

Roots/undercut banks

Leaf Packs (or mats)

Macrophytes

BAR/Tree Tsk

Velocity: 0.3
Note where velocity
measures were taken. 6d m

Habitat Smothering:
Note areas (on map) where sand or silt is something 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.

Average width 4.4 m
Average depth 4.4 m
WQ & chemistry taken @ m
Station Name: Hobbs Branch above CR-168

Project. SMP / TMDL Studies
Sampled By/Date: 4/24/2023
SMP
0 m Latt. 30.986608
0 m Long. 87.394175
100 m Latt. _____
100 m Long _____

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 15	Bankfull	Bankfull
0m width (m)	Root 2.0	+	+
10m width	Leaf 1.0	Slope	Slope
Avg. Depth 0.3	Veg 0.1		
Max Depth 0.5	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 10	Bankfull	Bankfull
20m width	Root 2	+	+
	Leaf 3	Slope	Slope
Avg. Depth 0.3	Veg 0.5		
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.0			

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 10	Bankfull	Bankfull
30m width	Root 2.0	+	+
	Leaf 3	Slope	Slope
Avg. Depth 0.3	Veg 0.5		
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 10	Bankfull	Bankfull
40m width	Root 2.0	+	+
	Leaf 0.5	Slope	Slope
Avg. Depth 0.3	Veg 1.0		
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 71.0	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 5	Bankfull	Bankfull
50m width	Root 6	+	+
	Leaf 0.3	Slope	Slope
Avg. Depth 0.4	Veg —		
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.5	Si, Sl	(A)	

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 7.8	Bankfull	Bankfull
60m width	Root 2.0	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth 0.3	Veg 0.1		
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 5.0	Bankfull	Bankfull
70m width	Root 0.3	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth 0.3	Veg 0.3		
Max Depth 0.5	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 5.0	Bankfull	Bankfull
80m width	Root 2.0	+	+
	Leaf 0.5	Slope	Slope
Avg. Depth 0.4	Veg 1.0		
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 71.0	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6.0	Bankfull	Bankfull
90m width	Root 4.0	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.4	Veg —		
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 71.0	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 13	Bankfull	Bankfull
100m width	Root 2.0	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.3	Veg —		
Max Depth 0.7	Gravel	Veg	Veg
Rip. Buff L 71.5	Rock		
Rip. Buff R 71.0	Si, Sl	(A)	

Station Name

Hobbs Branch above CR 168

WIN-ID: G3NW0039

Date 4/24/2023

0 meter (Dec Deg)

30.98661

100 meter (Dec Deg)

87.39418

Water Quality Measured at

Stream Velocity and location.

0.3 m/s 61 meter mark

3.5 sec

Number of Pools & Location

3. C, D, J

High Water: 2.0

Silt smothering @

A-J

Sand Smothering @

Algae Smothering @

A, D-H, J

Degraded Banks @

Fe/Sulfur Bact. @

E

Total Habitat	Sq. Meters	Percent
Snags	72.3	16.4
Roots	42.5	9.7
Leaf	5.2	1.2
Veg	3.5	0.8
Rock		
Gravel		
Sand	320.0	72.7
Other		
Sum 1° Habitat		28.1

Avg. Depth	Max. Depth	Avg. Width
0.4	1.0	4.4

Bank Stability Score. Left Bank 30 Right Bank 30 Category Left Bk Optimal Right Bk Optimal
Add all plus signs (Max. 30 possible) and Divide by 10. Scoring: Poor: 0.0 - 0.9 pts. Marginal: 1.0-1.9 pts. Suboptimal: 2.0 - 2.9. Optimal: 2.1 +

Notes: Map Direct plotted GPS coordinates below road.
Sample was stream was sampled above/upstream of CR 168
Map Direct Curve 0m: 30.98736, 87.39452. 100m: 30.98797, 87.39454

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

SAMPLING AGENCY: FL DEP-DEAR-NWROC 21FLPNS		STORET STATION NUMBER: G4NW0039	DATE (MM/DD/YY):	RECEIVING BODY OF WATER: Escambia River
REMARKS: WBID 8	COUNTY: Escambia	LOCATION: Hobbs Branch above CR 168	FIELD ID/NAME: G4NW0039	

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>18</u>	20 19 <u>18</u> 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>15</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent <u>15</u> 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>18</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec <u>0.3</u> ≥0.33 0.31 0.29 0.27 >0.25 20 19 <u>18</u> 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>69</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 <u>18</u> 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>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</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. <u>10</u> 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>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 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>10</u> Left Bank <u>10</u> ----- Secondary Score <u>80</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. <u>10</u> 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

149

TOTAL SCORE

Date: <u>4/24/2023</u>	Analyst: <u>F. Butler</u>	Signature: <u>Eric J. Butler</u>
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SBIO ID: 86744
62-160.800, F.A.C.

HA ID: 18376

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Hobbs Branch above CR 168 County: Escambia Date: 4/21/2023 Investigators: F. Dutton

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	N	96	60	1	N	N	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
10	1	N	N	96	70	1	N	N	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
20	1	N	N	96	80	1	N	N	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
30	1	N	N	96	90	1	N	N	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
40	1	N	N	96	100	1	N	N	96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
50	1	N	N	96		1	N	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:
G4NW0039

Secchi depth 0.5
Estimated? N

points ranked 4-6 9
total points assessed 99
% points ranked 4-6 10%

Check accompanying data collected at same site/date.
Algal mat sample N
Linear Veg Survey Y
Habitat Assessment Y
SCI/Biorecon Y
Water sample Y
RQ- 2023-04-24-17

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

SBIO Visit ID. 867444

RPS ID. 10102

RPS Score: 9.09

[illegible]

62-160.800. F.A.C.

Photo Log

Storet G4NW0039

Station Name: Hobbs ^{Branch} ~~Creek above CR 168~~

Date: 4/24/2023

Samplers: F Butler, M. Butler

- 1 N
- 2 E
- 3 S
- 4 W
- 5 Up
- 6 Down
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Notes.

Bioassessment- Hobbs Branch SCI	WBID	Kit	Qty	Bottle Group	Bottles
Hobbs Branch G4NW0039	644	SCI Kit	1	A	
		Nutrients			3
		Ortho-Phosphate			1
		Metals			1
		Tracers: E8321-MS/DI			1
		PNSP-TQ-R, TR-SQ-R			4
		Escherichia coli	1	B	1
		SCI	1		2
		Periphyton	1		1
		HA	1		-
		RPS	1		-
		LVS	1		-
RQ-2023-04-24-17 NEED PICS					

Field ID	WBID	WIN Description	County	Lat Long
G4NW0039	8	Hobbs Branch	Escambia	30.98764, 87.39451

Test	Lot #	Expiration date:
UWF Bottle	L21347#....350	1/13/2025
Sulfuric Acid	SA2145160	6/2/2023
Nitric Acid	NA1105100	6/072023
Syringe	136514	-
PO4 Filter	17460495	-

Notes (access, boat ramp, etc.)	
G4NW0039	Needs Pics

Bioassessment- Mill Creek SCI				
Field ID	TIME	Conductivity	pH	DO mg-L / Temp.
G4NW0039				
RQ-2023-04-24-17				