

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

SAMPLE ID 79856 ORG ID 21FLWQSP LATITUDE 30.167392
 COUNTY Wakulla STORET # 22020064 LONGITUDE -84.654714
 DATE 4/25/19 TIME 1030 SAMPLING AGENCY FDEP/AEQA
 SITE NAME Smith Creek
 FIELD ID/NAME SMITHREF RECEIVING BODY OF WATER Ochlocknee River
RQ-2019-04-22-

RIPARIAN ZONE / STREAM FEATURES

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) <u>1.1</u>
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 <u>3.5</u> m wide		
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>7/7</u> Right Bank: <u>7/8</u>				Hydrologic Modification Score (per FT 3101) <u>1-2</u>		m/s <u>0.11</u> m/s ☐ m/s ☐		
High Water Mark: <u>2.0</u> + <u>0.3</u> = <u>2.3</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		m deep <u>0-3</u> 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) 4 ||||
 Undercut Banks / Roots 1.4 ||||
 Leaf Packs or Mat 21 ||
 Aquatic Vegetation
 Rock or Shell Rubble.....
 Sand..... 94.6 ||||
 Mud / Muck / Silt
 Other
 Other

WATER QUALITY

Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top: <u>0.1</u>	<u>16.4</u>	<u>8.6</u>	<u>7.9</u>	<u>80.8</u>	<u>86.6</u>		
Mid:							☐ VOB
Bottom:							
Meter ID: <u>154185</u>							<u>0.3</u>

Water Odors Normal ☒ Petroleum ☐
 Sewage ☐ Chemical ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No
 Sample Preserved? ☒ Yes ☐ No
 Lot Number: 101232 Exp: 10-13-19

Algae Sample Taken? ☐ Yes ☒ No
 Sample Preserved? ☐ Yes ☐ No
 Lot Number: 101246 Exp: 8-20-20

Water Surface Oils Normal ☒ Sheen ☐
 Globbs ☐ Slick ☐ Other ☐

Color Tannic ☒ Green (Algae) ☐
 Clear ☐ Other (Specify) ☐

Clarity Clear ☒ Slightly Turbid ☐
 Turbid ☐ Opaque ☐

ABUNDANCE

Not Obs. Rare Common Abundant

Periphyton: ☒ ☐ ☐ ☐
 Fish: ☐ ☒ ☐ ☐
 Aquatic Plants: ☒ ☐ ☐ ☐
 Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐

AMBIENT FIELD CONDITIONS / NOTES:

I qualify - pH will not stabilize in field.
 Replacing bridge on 375 - active construction. Sampled upstream.
☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM

S. NOBLE, A. O'NEAL, J. JACKSON

SIGNATURE:

Sarah Noble

DATE:

4/25/19

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

SAMPLING AGENCY: <u>FDEP/AEQA</u>		STORET STATION NUMBER: <u>22020064</u>	DATE (MM/DD/YY): <u>4/25/19</u>	RECEIVING BODY OF WATER: <u>Ochlockonee R.</u>
REMARKS:	COUNTY: <u>Nakulla</u>	LOCATION: <u>Smith Creek</u>	FIELD ID/NAME: <u>SMITH REF</u>	

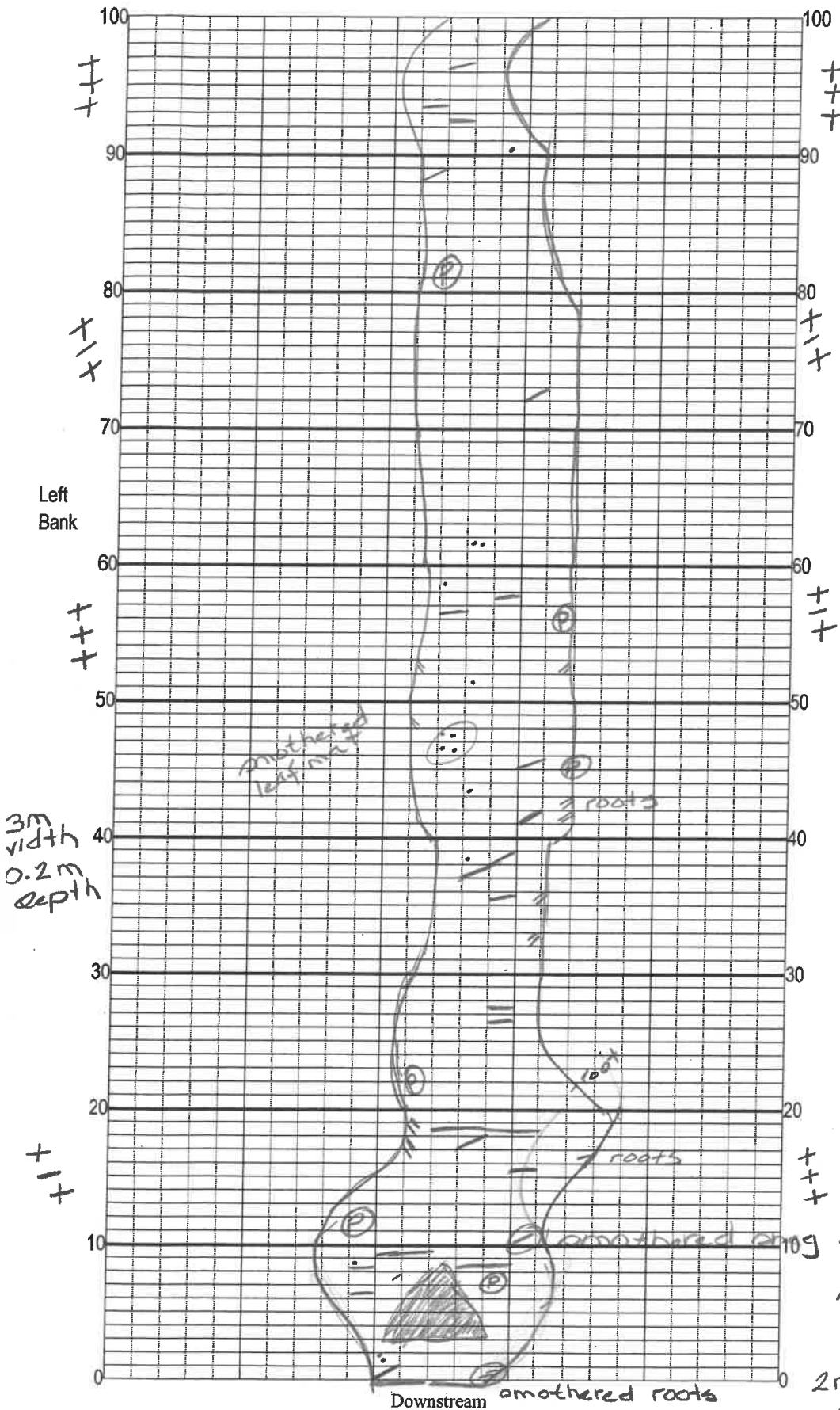
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed <u>roots, snags</u>	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 <u>8</u> 7 6	5 4 3 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>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 <u>11</u>	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>12</u> ----- Primary Score <u>36</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>7</u> Left Bank <u>7</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>9</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>73</u>	10 9	8 7 6	5 4	3 2 1

109

TOTAL SCORE

Date: <u>4/25/2019</u>	Analyst: <u>S. Noble</u>	Signature: <u>Jarah Noble</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Smith Creek

Date: 4/25/19

Sampler: S. Noble

100 m: Latitude _____

Longitude _____

0 m: Latitude _____

Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

S Snags _____

R Roots/undercut banks _____

+ Leaf Packs (or mats) _____

□ Aquatic Macrophytes _____

□ _____

□ _____

P Pools total # observed = 6
range expected = 3-6

Average width 3-4 m

Average depth 0.3 m

Velocity measured at _____ 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:

4m wide, 0.3m depth
piet + sand smothering

2m width
0.2m depth

roofts 10/700 1.4%
snag 27/700 4%

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

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Smith Creek</u>					County: <u>Nakulla</u>		Date: <u>4/25/19</u>		Investigators: <u>S. Noble</u>	
					STORET Station Number: <u>22020064</u>					

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			60	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		90		5	N		88
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
10	1	N			70	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		94		5	N		92
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
20	1	N			80	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		96		5	N		96
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
30	1	N			90	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		76		5	N		94
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
40	1	N			100	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		84		5	N		96
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
50	1	N				1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		92		5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		

Secchi depth	
Estimated?	

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

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%.

Waterbody: Smith Creek	Date: 4/25/18	County: Wakulla	Storet Number: 2202004
Analyst: S. Noble	Signature: Sarah L. Noble		
Comments: No plants in water, < 2m ²			

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	
<i>Alternanthera philoxeroides</i>												<i>Micranthemum glomeratum</i>											
<i>Bacopa caroliniana</i>												<i>Micranthemum umbrosum</i>											
<i>Bacopa monnieri</i>												<i>Myriophyllum aquaticum</i>											
<i>Bidens mitis</i>												<i>Najas guadelupensis</i>											
<i>Boehmeria cylindrica</i>												<i>Nuphar luteum</i>											
<i>Centella asiatica</i>												<i>Orontium aquaticum</i>											
<i>Ceratophyllum demersum</i>												<i>Panicum hemitomon</i>											
<i>Chara</i>												<i>Panicum repens</i>											
<i>Cicuta maculata</i>												<i>Panicum rigidulum</i>											
<i>Cladium jamaicense</i>												<i>Pistia stratioides</i>											
<i>Colocasia esculenta</i>												<i>Polygonum glabra</i>											
<i>Commelina diffusa</i>												<i>Polygonum hydropiperoides</i>											
<i>Commelina virginica</i>												<i>Polygonum punctatum</i>											
<i>Crinum americanum</i>												<i>Pontedaria cordata</i>											
<i>Epidia virginiana</i>												<i>Potamogeton illinoensis</i>											
<i>Eleocharis crassipes</i>												<i>Ruellia simplex</i>											
<i>Eleocharis (wispy viviparous)</i>												<i>Sagittaria striata</i>											
<i>Hydrilla verticillata</i>												<i>Sagittaria kurziana</i>											
<i>Hydrocotyle</i>												<i>Sagittaria lancifolia</i>											
<i>Hydrophila polysperma</i>												<i>Sagittaria latifolia</i>											
<i>Hydrocotyle</i>												<i>Salvinia minima</i>											
<i>Hydrocotyle</i>												<i>Samolus parviflora</i>											
<i>Hydrocotyle</i>												<i>Saururus cernuus</i>											
<i>Hydrocotyle</i>												<i>Sparganium americanum</i>											
<i>Hydrocotyle</i>												<i>Typha</i>											
<i>Hydrocotyle</i>												<i>Vallisneria spiralis</i>											
<i>Hydrocotyle</i>												<i>Zizania aquatica</i>											
<i>Hydrocotyle</i>																							
<i>Hydrocotyle</i>																							
<i>Hydrocotyle</i>																							
<i>Hydrocotyle</i>																							

SITE NAME: Smith CreekDATE: 4/25/19TIME: 1030

EST CST

DEPTH: 0.1 ftFIELD ID: SMITHREF

SAMPLING TEAM MEMBERS	WQ MEASUREMENTS	DOCUMENTATION	SAMPLE COLLECTION	PRESERVATION	PRESERVATION CHECK
S Noble		X			
J. Jackson			X	X	X
A. O'Neal	X				

SAMPLING EQUIPMENT	
☒ Sample Container	☐ Tubing type: _____
☐ Pole	☐ Other: _____
☐ Pump ID#: _____	☐ Other: _____
WATER QUALITY MEASUREMENTS	
Instrument ID: _____	
COLLECTION MODE	
☒ Wading	☐ Via Boat
☐ Diving	☐ Canoe
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Parameter Suite	Parameter(s)/Method	Matrix Code*	Preservation**	Preservative Lot #	pH Check	# Bottles ***
Preserved Nutrients	☐ TKN ☐ TP ☐ NOx ☐ NH3 ☐ TOC ☐ Total N ☐ Other: _____	W	☐ Ice ☐ H2SO4		☐ <2	
Filtered Nutrients	☐ oP ☐ Other: _____	W	☐ Ice ☐ .45 um Filter			
Unpreserved Nutrients	☐ NO2 ☐ NO3 ☐ SO4 ☐ Other: _____	W	☐ Ice			
Physical/Aggregate Properties	☐ TDS ☐ TSS ☐ TS ☐ Turbidity ☐ Alk ☐ Color ☐ Other: _____	W	☐ Ice			
Chlorophyll	☐ CHL-PPTN-W	W	☐ Ice			
BOD	☐ BOD-INHB ☐ BOD-UNIN	W	☐ Ice			
Microbiology	MF: ☐ E coli ☐ T Coli ☐ F Coli ☐ Enteroc ☐ F Strep	W	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC ☐ MI-FW-QLBR ☐ MI-FW-QNNC ☐ MI-MN-QNNC	W	☐ Formalin			
Phytoplankton	☐ PKD-QN-C ☐ DTY-QN-C	W	☐ Lugol's			
Periphyton	☐ PRN-QL-C ☐ DTM-QL-C ☐ PRN-QN-C ☐ DTM-QN-C	W	☐ Formalin			
AGP	☐ AA-AGP ☐ AA-LIM-NUT	W	☐ Ice			
Metals	☐ W-ICP ☐ W-FIAS ☐ W-ICPMS ☐ W-ICP-Tr	W	☐ HNO3		☐ <2	
Filtered Metals	☐ W-ICP-F ☐ W-FIAS-F ☐ W-ICPMS-F ☐ W-ICP-Tr-F	W	☐ HNO3 ☐ .45 um Filter		☐ <2	
Mercury	☐ W-HG-AF	W				
Base/Neutral / Acid Extractable	☐ W-BNA ☐ W-AE ☐ W-BN ☐ W-PAH ☐ W-FL-PRO ☐ W ☐ Other: _____	W	☐ Ice			
Pesticides	☐ W-PEST-CL ☐ W-PCB ☐ W-PEST-NP ☐ W-PSCL-PCB	W	☐ Ice			
	☐ W-NP-AA-SF ☐ W-PC-AA-SF ☐ W-PSHRB-NP	W	☐ Ice			
	☐ W-SLFN-UREA ☐ W-SULFN-LC ☐ Other: _____	W	☐ Ice			
	☐ W-ACIDHERB	W	☐ Ice ☐ H2SO4			
Purgeables	☐ W-CARB	W	☐ Ice ☐ MCAA			
	☐ W-VOC-MS	W	☐ Ice			
Bioassay	☐ W-VOC-MS-A	W	☐ Ice ☐ HCl			
	Specify Test: _____	W	☐ Ice			
OTHER		W	☐ Other: _____			

Notes: _____

Use one line for each set of sample (as supplied by the laboratory) containers. Use separate sheet for field or laboratory duplicate or blank or different water depth

^Enter "S" for surface if collected at a depth less than or equal to 1 foot

*Matrix Codes (Insert prefix): SW = Surface Water GW = Groundwater DW = Drinking Water WW = Wastewater O = Other: _____

**PRESERVATIVES: 1 ml added unless otherwise noted

***Enter number of containers supplied by the laboratory for the test (e.g., 3 for volatile organics, etc.)

DEP Bureau of Laboratories Water Sample Collection Record

(Use with FDEP SOP-001/01 Form FD 9000-3 Physical/Chemical Characterization Field Sheet)

Reference Stream Sampling

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: BSSP

Requester: Sarah Panek

Field Report Prepared By:

Jackson

Project ID: SCIREF

Collected By:

Sampling Agency:

FDEP/ACCA

Location	Smith Creek		☐ Comp	Collection (comp begin or grab)	Time	1030	☒ East	Composite end	Time	Bottle Group(s)						
Field ID	Smith K&C		☒ Grab	Date	4-15-19		Central	Date		(See pg 2)						
WIN/STORET #	22020064		Matrix (type, e.g., Salt, Fresh, etc)													
Latitude	☒ dd	Longitude	☐ dd	Temp (C)	16.4	pH	8.6	Sample Depth	0.1	Diss. Oxygen	7.9	% sat	80.8	Total Res. Chlorine		Bottle Group(s)
30.167392	☐ dms	-84.654714	☐ dms	Salinity (ppt)		Comments										
Location	Sopchoppe River		☐ Comp	Collection (comp begin or grab)	Time	1320	☒ East	Composite end	Time	Bottle Group(s)						
Field ID	Sopchoppe River		☒ Grab	Date	4-19-19		Central	Date								
WIN/STORET #	22020050		Matrix (type, e.g., Salt, Fresh, etc)													
Latitude	☒ dd	Longitude	☐ dd	Temp (C)	18.2	pH	7.2	Sample Depth	0.15	Diss. Oxygen	7.83	% sat	83.2	Total Res. Chlorine		Bottle Group(s)
30.1321	☐ dms	-84.4944	☐ dms	Salinity (ppt)		Comments										
Location			☐ Comp	Collection (comp begin or grab)	Time		☐ East	Composite end	Time	Bottle Group(s)						
Field ID			☐ Grab	Date			Central	Date								
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)													
Latitude	☐ dd	Longitude	☐ dd	Temp (C)		pH		Sample Depth		Diss. Oxygen		% sat		Total Res. Chlorine		Bottle Group(s)
	☐ dms		☐ dms	Salinity (ppt)		Comments										
Location			☐ Comp	Collection (comp begin or grab)	Time		☐ East	Composite end	Time	Bottle Group(s)						
Field ID			☐ Grab	Date			Central	Date								
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)													
Latitude	☐ dd	Longitude	☐ dd	Temp (C)		pH		Sample Depth		Diss. Oxygen		% sat		Total Res. Chlorine		Bottle Group(s)
	☐ dms		☐ dms	Salinity (ppt)		Comments										
Location			☐ Comp	Collection (comp begin or grab)	Time		☐ East	Composite end	Time	Bottle Group(s)						
Field ID			☐ Grab	Date			Central	Date								
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)													
Latitude	☐ dd	Longitude	☐ dd	Temp (C)		pH		Sample Depth		Diss. Oxygen		% sat		Total Res. Chlorine		Bottle Group(s)
	☐ dms		☐ dms	Salinity (ppt)		Comments										

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Jackson

4-15-19

Hand Delivered

3

4/25/19

1552