

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

SAMPLE ID 74790 ORG ID 21FLWASP LATITUDE 30.2361/-84.2722
COUNTY WAKULLA STORET # 22030062 LONGITUDE 30°14'10"N / -84°16'20"W
DATE 9.3.15 TIME 1420 SAMPLING AGENCY FDEP/AEGA
SITE NAME MCBRIDE SLough
FIELD ID/NAME MCBRIDE RECEIVING BODY OF WATER WAKULLA RIVER

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) ☐
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 2.5 m wide		
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>718m</u> Right Bank: <u>718m</u>				Hydrologic Modification Score (per FT 3101) <u>2</u>		.27 m/s .27 m/s .27 m/s		
High Water Mark: <u>0.3</u> + <u>0.2</u> = <u>0.5</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		0.2 m deep 0.25 m deep 0.2 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)	13	5	
Undercut Banks / Roots	1	5	
Leaf Packs or Mat			
Aquatic Vegetation	45	5	
Rock or Shell Rubble			
Sand	41	5	
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:	0.2	21.9	7.41	5.53	62.3	350		
Mid:								
Bottom:								

Meter ID: YSI #7 TOTAL DEPTH: 0.25

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

Water Sample Taken? ☒ Yes ☐ No
Sample Preserved? ☒ Yes ☐ No
Lot Number: SA-5113230 Exp: 4/23/16

Algae Sample Taken? ☐ Yes ☒ No
Sample Preserved? ☐ Yes ☐ No
Lot Number: _____ Exp: _____

Water Surface Oils Normal ☒ Sheen ☐
Globs ☐ 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) ☒ SPRING FED

AMBIENT FIELD CONDITIONS / NOTES:

90's, CALM, MOSTLY CLOUDY

☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM

JACKSON, C SWANSON, COLNER

SIGNATURE: [Signature]

DATE: 9.3.15

USED FOR COMPARISON ONLY
YSI #8 6.2 22.0 7.09 347 3.225 36.45

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

SAMPLING AGENCY: <u>FDEP / AEGA</u>		STORET STATION NUMBER: <u>22030062</u>	DATE (MM/DD/YY): <u>9.3.15</u>	RECEIVING BODY OF WATER: <u>WAKULLA RIVER</u>
REMARKS: <u>ELOREBREF</u>	COUNTY: <u>WAKULLA</u>	LOCATION: <u>McBRIDE Slough</u>	FIELD ID/NAME: <u>McBRIDREP</u>	

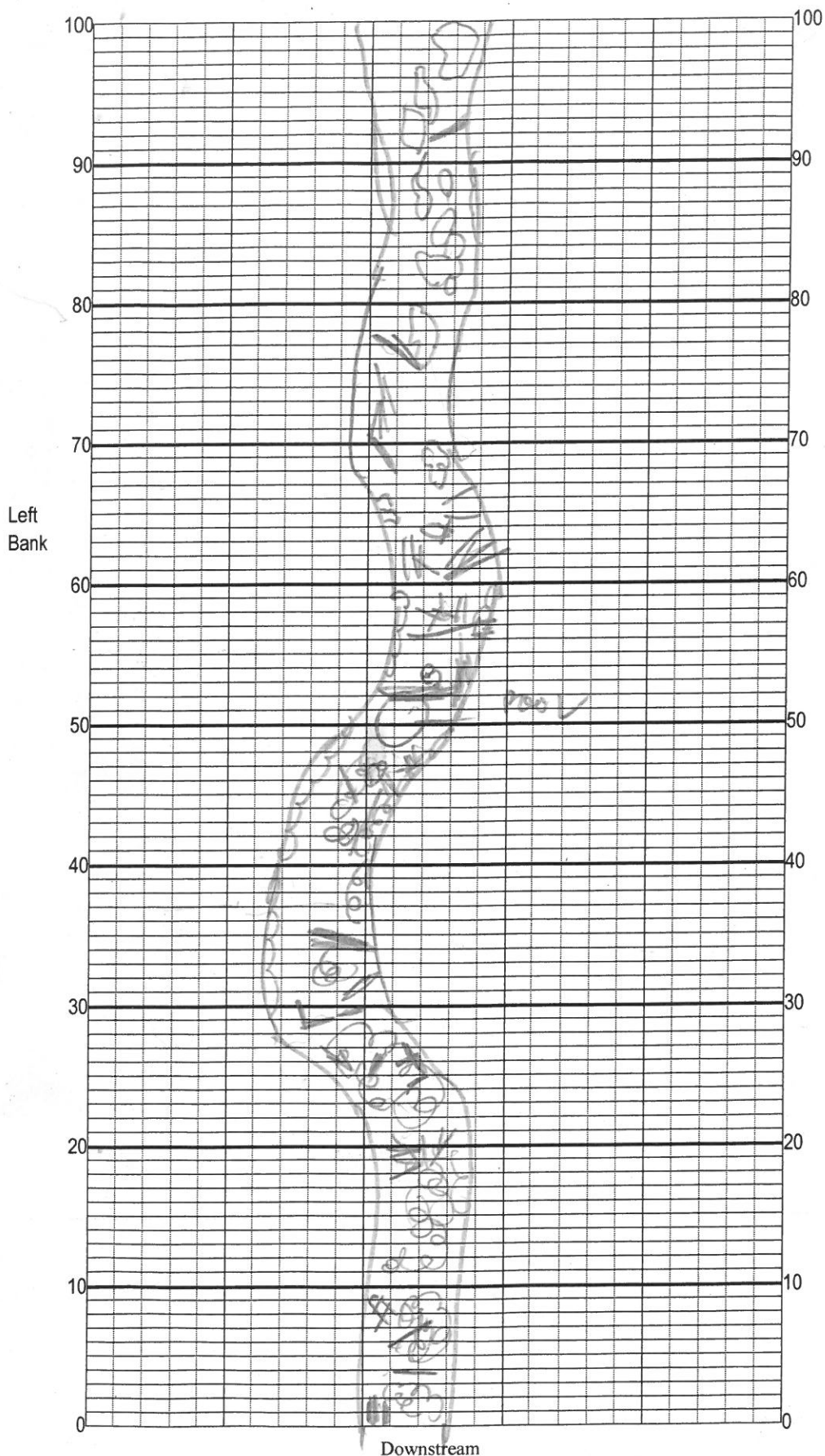
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh 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>13</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>17</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>17</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>17</u> ----- Primary Score <u>64</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. 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	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	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
Secondary Score <u>60</u>				

144

TOTAL SCORE

Date: <u>9.3.15</u>	Analyst: <u>J Jackson</u>	Signature: <u>J Jackson</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



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

Location: McBride Slough
Date: 9.3.15
Sampler: JACKSON

100 m: Latitude	_____
Longitude	_____
0 m: Latitude	_____
Longitude	_____
Substrates: Code key, draw proportionate habitat abundance. %	
☒ #	Snags _____
☒ S	Roots/undercut banks _____
☐	Leaf Packs (or mats) _____
☒ 3	Aquatic Macrophytes _____
☐	_____
☐	_____
☐	Pools
total # observed = <u>LOTS</u>	
# range expected = _____	
Average width	<u>3</u> m
Average depth	<u>0.2</u> m
Velocity measured at <u>7100</u> meter mark.	
WQ & chemistry taken at <u>7100</u> 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:

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: McBRIDE Slough County: WACUVA Date: 9-3-15 Investigators: JACKSON, COLNET

Transect (m) Point 1=right 9=left Algal Thickness Rank (N-6, X) Estimated Canopy Cover

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STORET Station Number: 22030062

Secchi depth VOB
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- 2015-08-17-30

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%.

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

Waterbody: McBRIDE SLOUGH Date: 9.3.15 County: NAKULIA Storet Number: 22030062

Analyst: JACKSON, L O'NEY Signature: J Jackson

Comments: VERIFIED BY J. TUBE 9.4.15

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.

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												Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis						X		X	✓		
Boehmeria cylindrica				X	X							Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara												Panicum repens											
Cicuta maculata												Panicum rigidulum											
Cladium jamaicense												Pistia stratioides											
Colocasia esculenta												Polygonum glabra											
Commelina diffusa												Polygonum hydropiperoides	X	X	X	X			X	X	✓		
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata						X	X				
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Sacciolepis striata											
Hydrilla verticillata												Sagittaria kurziana						C	X	D			
Hydrocotyle					X							Sagittaria lancifolia											
Hygrophila polysperma												Sagittaria latifolia											
Hymenocallis	X			X	X	X	X			✓		Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus	X	D	X		X	X	X	X			
Lemna												Sparganium americanum											
Limnophila sessiflora												Typha											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana												AMORACIA AQUATICA	X	X	X	X	X		X		✓		
Ludwigia repens					X	X	X	X	X	✓													
Luziola fluitans																							
LOBELIA CARDINALIS	D	X	C	D	C	X	X	X	X	✓													
RHYNCHOPORA CORNICULATA	X	X	C	X	X	C	X	X	X	✓													
Sium suave	X	X	X	X	X	X	X	X	X	✓													
Fontinalis					X	X	X	X	D	✓													
MICROMERIA BROWNEI					X					✓													
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage																							
>5 and ≤10% Macrophyte Coverage								X	X														
>10 and ≤25% Macrophyte Coverage							X																
>25 and ≤50% Macrophyte Coverage					X	X																	
> 50% Macrophyte Coverage	X	X	X	X																			

SITE NAME: McBRIDE SLOUGH DATE: 9.3.15 TIME 1420 EST CST DEPTH: 0.2 ft (m) FIELD ID: NCPA1REF
 (military)

SAMPLING TEAM MEMBERS	WQ MEASUREMENTS	DOCUMENTATION	SAMPLE COLLECTION	PRESERVATION	PRESERVATION CHECK
J JACKSON (WATER)		X	X		
LOONEY				X	X
C SWANSON (SCI)	X		X		

SAMPLING EQUIPMENT	
☒ Sample Container	☐ Tubing type: _____
☐ Pole	☐ Other _____
☐ Pump ID#: _____	☐ Other _____
WATER QUALITY MEASUREMENTS	
Instrument ID: <u>YSI # 7</u>	
COLLECTION MODE	
Via Boat	
☒ Wading	☐ Canoe
☐ Diving	☐ Electric Motor
☐ From Shore	☐ Gasoline Motor
☐ Other <u>EXCEPT FOR GPCR - USED POLE FROM SHORE</u>	

Parameter Suite	Parameter(s)/Method	Matrix Code ¹	Preservation ²	Preservative Lot #	pH Check	# Bottles ...
Preserved Nutrients	☒ TKN ☒ TP ☒ NOx ☒ NH3 ☒ TOC ☐ Total N	S W	☒ Ice ☒ H ₂ SO ₄	SA-5117230	☒ <2	1
Filtered Nutrients	☐ oP ☐ Other: _____	W	☐ Ice ☐ .45 um Filter			
Unpreserved Nutrients	☐ NO ₂ ☐ NO ₃ ☐ SO ₄ ☐ Other: _____	W	☐ Ice			
Physical/Aggregate Properties	☒ TDS ☒ TSS ☐ TS ☒ Turbidity ☒ Alk ☒ Color	S W	☒ Ice			1
Chlorophyll	☒ CHL-PPTN-W	S W	☒ Ice			1
BOD	☐ BOD-INHB ☐ BOD-UNIN	W	☐ Ice			
Microbiology	MF: ☒ E coli ☐ T Coli ☒ F Coli ☐ Enteroc ☐ F Strep	S W	☒ Ice			2
Macroinvertebrates	☒ MI-FW-QLDC ☐ MI-FW-QLBR ☐ MI-FW-QNNC	S W	☒ Formalin			2
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	☐ HNO ₃		☐ <2	
Filtered Metals	☐ W-ICP-F ☐ W-FIAS-F ☐ W-ICPMS-F ☐ W-ICP-Tr-F	W	☐ HNO ₃ ☐ .45 um Filter		☐ <2	
Mercury	☐ W-HG-AF	W				
BaseNeutral / Acid Extractable	☐ W-BNA ☐ W-AE ☐ W-BN ☐ W-PAH	W	☐ Ice ☐ H ₂ SO ₄		☐ <2	
	☐ 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 ☐ H ₂ SO ₄			
	☐ W-SLFN-UREA ☐ W-SULFN-LC ☐ Other: _____	W	☐ Ice ☐ MCAA			
	☐ W-ACIDHERB	W	☐ Ice			
	☐ W-CARB	W	☐ Ice			
Purgeables	☐ W-VOC-MS	W	☐ Ice ☐ HCl			
	☐ W-VOC-MS-A	W	☐ Ice			
Bioassay	Specify Test: _____	W	☐ Ice			
OTHER	<u>W-SUC-AA-R</u>	S W	☒ Other: <u>ICE</u>			1

Notes:

GPCRS ICE2

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.)

EXPORT

Central Laboratory Sample Submittal Form

Field Report Prepared By:

for person

FD-1/1024

Joy Jackson

FDE

Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Latitude	Temp (C)	pH	Sample Depth	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Saltinity (PPTth)	Sp Conductance (umho/cm)	NPDES Number	Bottle Group(s)**
Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Latitude	Temp (C)	pH	Sample Depth	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Saltinity (PPTth)	Sp Conductance (umho/cm)	NPDES Number	Bottle Group(s)**
	Sopchopox River	SOPREF	(Fresh)		24.78	5.61	0.1		47		X Sp Conductance		A B
Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Latitude	Temp (C)	pH	Sample Depth	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Saltinity (PPTth)	Sp Conductance (umho/cm)	NPDES Number	Bottle Group(s)**
	McBride Slough	MCBRIFEP	(Fresh)		21.9	7.41	0.2		350		X Sp Conductance		A, B
Lab ID *	Location	Field ID	Matrix (include type e.g. Salt, Fresh, etc)	Latitude	Temp (C)	pH	Sample Depth	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Saltinity (PPTth)	Sp Conductance (umho/cm)	NPDES Number	Bottle Group(s)**
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Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	Received By:	Date/Time	Received By:	Date/Time	Date/Time

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