FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified? Yes / No

WIN Station Name: W. Williamson 300m down Jammes Date: 7/9/2018 (mm/dd/yyyy)

WIN/ Field ID: G2NE1165 WBID: 2316 Latitude: 30.27199 (Decimal Degrees)

County: Duval ORG ID: 21FLA Longitude: 81.74441 (Decimal Degrees)

Receiving Body of Water: Cedar River RQ-2018- 06-25-17

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JT Smith	X		X		
P Brannock		X		X	X

Sampling Equipment
- [X] Sample Container [ ] Van Dorn [X] Pole
- [ ] Carboy [ ] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with Equipment ID: DM07

Collection Method
- [X] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [ ] Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded

Meter ID#: CM 845

Matrix: (Fresh) / Marine / DI

Photos: (Yes) / No

Flow: No Flow / Interstitial / (Flowing) / NA

Tide: Rising/ Falling/ Slack/ NA

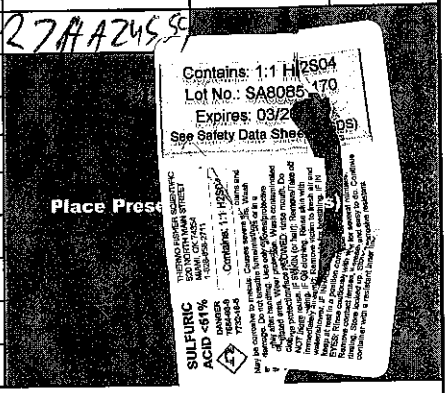
Tide Times: High — Low —

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	845	0.3	0.2	0.35	5.9	72.0	7.48	0.12	256	25.1
CEN										

Biological Samples Collected: None (HA) (SCI) (RPS) Algae ID (LVS) LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[ ] Ice [ ] H_2SO_4	SA8085170	03-2-19	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[ ] Ice	R7AA245		
Chlorophyll	[X] CHLSUITE-W	[ ] Ice			
Physical/Aggregate (Fresh)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[ ] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[X] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[X] E Coli [ ] F Coli [ ] Enterococci	[ ] Ice			
Molecular	[X] PCR-FILTER [ ] PCR-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-GFD	[ ] Ice			
Tracers	[ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA [X] 8321	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-UHERB-AA [ ] W-AHERB-AA [ ] W-CARB-AA [ ] W-PCL-SQ-R [ ] W-PYR-AA-R [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			



Notes:

WIN / Field ID: G2NE1165

Williamson cr. 300m Down from Jammes

Signature: [signature] Date: 7/17/18

Enter Field Parameters, Verify Station ID In LIMS DMT: [signature] 7/17/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: BT 7/17/18 (Initials/Date)

Scan/Save Field Sheets BT 7/17/18 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

78566 G2NE1165

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

Waterbody: Williamson Cr 300 m Down fr. Sand | Date 07-09-18 | County: Duval | Storet Number: G2NE1165

Analyst: P O'Connor | Signature: [signature]

Comments: NO AQUATIC PLANTS

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m^2 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 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides												Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monneri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												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											
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Sacciolepis striata											
Hydrilla verticillata												Sagittaria kurziana											
Hydrocotle												Sagittaria lancifolia											
Hygrophila polysperma												Sagittaria latifolia											
Hymenocallis												Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus											
Lemna												Sparganium americanum											
Limnophila sessiflora												Typha											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana																							
Ludwigia repens																							
Luziola fluitans												No Aquatic Plants											
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																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

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

78566

SAMPLE ID _____ ORG ID _____ LATITUDE 30.27141

COUNTY Duval STORET # 62NE1165 LONGITUDE 81 74491

DATE 9/9/18 TIME 845 SAMPLING AGENCY _____

SITE NAME W. Williamson 3rd Jammes

FIELD ID/NAME _____ RECEIVING BODY OF WATER _____

Meter ID:

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)
5				85	10		

Landscape Development Intensity Index (LDI): _____

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☐ Moderate ☒ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side

Left Bank : 12 Right Bank : 18

Hydrologic Modification Score (per FT 3101): _____

High Water Mark: 0.9 (m) (above present water level) + 0.3 (present depth) = 1.2 (above bed)

Artificially Impounded ☒ Yes ☐ No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect

3 m wide

	m/s		0.17	m/s		m/s		
	m deep		0.3	m deep		m deep		

Artificially Channelized : ☒ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☐ 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

	None	Slight	Moderate	Severe
Sand Smothering:	☐	☐	☒	☐
Silt Smothering:	☐	☐	☒	☐
Algae Smothering:	☐	☒	☐	☐

SUBSTRATE TYPE

Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	4	5	
Undercut Banks / Roots	7	5	
Leaf Packs or Mat			
Aquatic Vegetation			
Rock or Shell Rubble..	4	5	
Sand.....	85	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 :								0.35
Mid:	0.2	25.1	7.48	5.9	72	256	0.12	TOTAL DEPTH
Bottom	0.3							

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

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

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

Water Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☒ Yes ☐ No

Lot Number: _____ Exp: _____

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

Algae Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☐ No

Lot Number: _____ Exp: _____

Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☒	☐	☐
Fish:	☐	☒	☒	☐
Aquatic Plants:	☐	☒	☐	☐
Iron/Sulfur Bacteria:	☐	☒	☒	☐

AMBIENT FIELD CONDITIONS / NOTES:

Hydrologic Disturbance Scoring ☐ 1-2 ☐ 3-4 ☐ 5-6 ☒ 7-8 ☐ 9-10

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

SAMPLING TEAM _____ SIGNATURE : _____

62-160.800, F.A.C.

Revision Date: March 1, 2014

74566 (AL)

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:	County:	Date:	Investigators:
Williamson 300m down from Jammes	Duval	7/9/18	J Parish

STORET Station Number: 62NE1165

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	N	
	2	N	↓	
	3	N	↓	
	4	N	↓	
	5	N	↓	96
	6	N	↓	
	7	N	↓	
	8	N	↓	
	9	N	↓	
10	1	5	N	
	2	4	↓	
	3	4	↓	
	4	N	↓	
	5	N	↓	96
	6	N	↓	
	7	N	↓	
	8	N	↓	
	9	N	↓	
20	1	N	N	
	2	N	↓	
	3	N	↓	
	4	N	↓	
	5	N	↓	96
	6	N	↓	
	7	N	↓	
	8	N	↓	
	9	N	↓	
30	1	X	X	
	2	X	X	
	3	N	N	
	4	↓	↓	
	5	↓	↓	96
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	
40	1	N	N	
	2	↓	↓	
	3	↓	↓	
	4	↓	↓	
	5	↓	↓	96
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	
50	1	N	N	
	2	↓	↓	
	3	↓	↓	
	4	↓	↓	
	5	↓	↓	96
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	X	X	
	2	X	X	
	3	N	N	
	4	↓	↓	
	5	↓	↓	96
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	
70	1	N	N	
	2	↓	↓	
	3	↓	↓	
	4	↓	↓	
	5	↓	↓	96
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	
80	1	N	N	
	2	N	N	
	3	N	N	
	4	X	X	
	5	X	X	96
	6	X	X	
	7	N	N	
	8	N	N	
	9	N	N	
90	1	N	N	
	2	↓	↓	
	3	↓	↓	
	4	↓	↓	
	5	↓	↓	94
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	
100	1	N	N	
	2	↓	↓	
	3	↓	↓	
	4	↓	↓	
	5	↓	↓	96
	6	↓	↓	
	7	↓	↓	
	8	↓	↓	
	9	↓	↓	

Secchi depth	0.35
Estimated?	

# points ranked 4-6	3
total points assessed	99
% points ranked 4-6	3

Check accompanying data collected at same site/date.	
Algal mat sample	Na
Linear Veg Survey	Y
Habitat Assessment	Y
SCI/Biorecon	Y
Water sample	

RQ- 2018-06-07-25

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%.

BR 78566

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

SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: 32NE116507	DATE (MM/DD/YY): 07-09-18	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: DUVal	LOCATION: Williamson St 300 Meters DOWN From James Rd		FIELD ID/NAME:

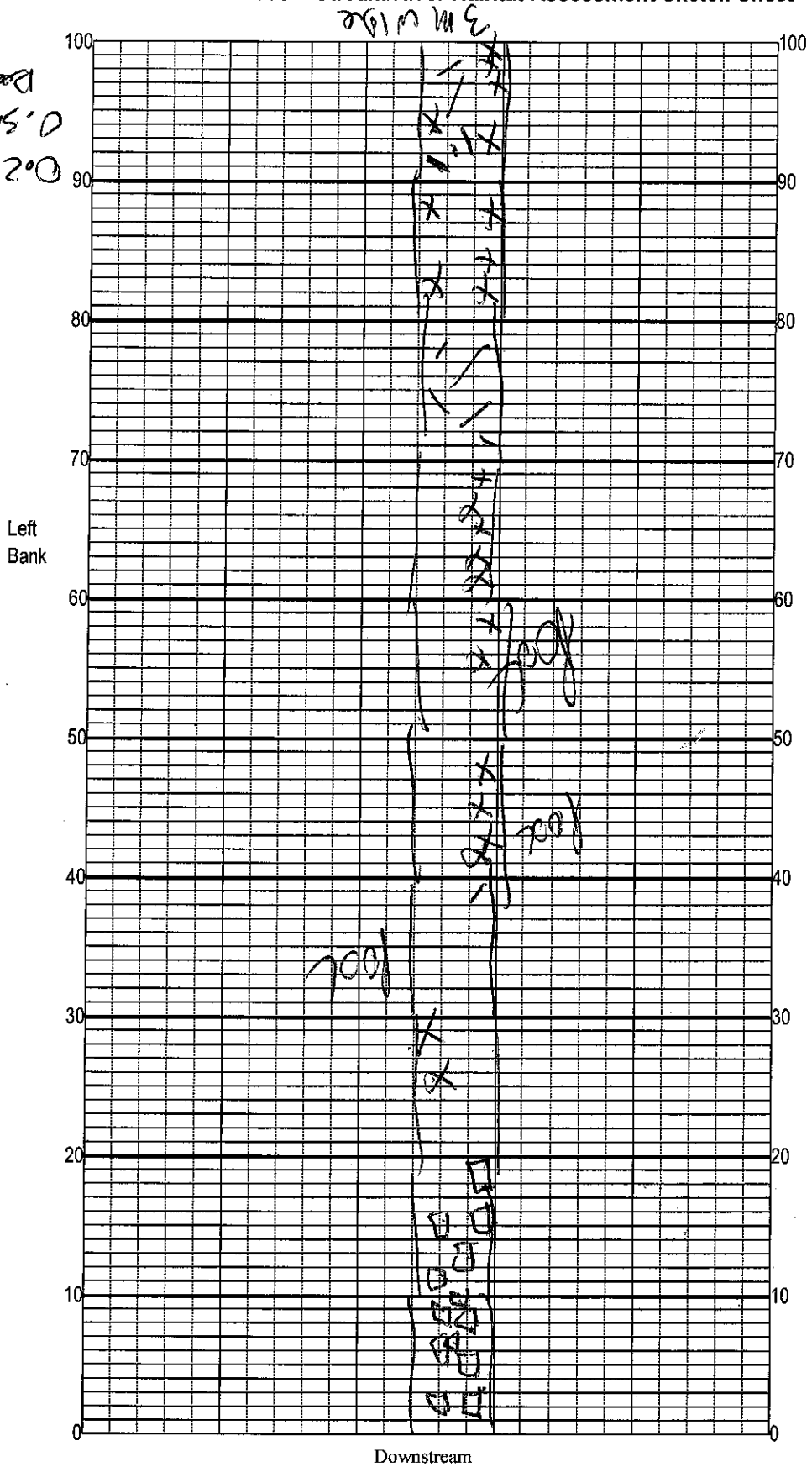
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 13	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability 10	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 13	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 11 Primary Score 47	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 **Artificial Channelization** 10	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank 5 Left Bank 5	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful 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 Right Bank 10 Left Bank 6	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 Right Bank 7 Left Bank 8 Secondary Score 51	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

98 **TOTAL SCORE**

Date: 07-09-18	Analyst: PO Comm	Signature: Patricia O'Connor

GZNE1165

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: Williamson Cr 300 meters Down from Jammos Rd

Date: 07-09-18

Sampler: OConnor

100 m: Latitude / Longitude	
0 m: Latitude / Longitude	

Substrates: Code key, draw proportionate habitat abundance. %

- Snags ____
- Roots/undercut banks ____
- Leaf Packs (or mats) ____
- Aquatic Macrophytes ____
- Rock ____
- ____ ____
- Pools total # observed = ____ # range expected = ____

Average width 3.0 m
Average depth 0.3 m

Velocity measured at 90 meter mark.

WQ & chemistry taken at 10 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:

<2 M of Macrophytes was observed while doing the LVS? YES or NO

4% Rock
7% Root
4% SNAG

Request Number: RQ-2018-06-25-07

LSJR West 1 2018

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Collected By: J. Parrish, P. O'Connor

Field Report Prepared By: P. O'Connor

Sampling Agency: DEARNED ROC

Location

WIN / FIELD ID: 20030725

Field ID: MCCOYS CR AT LELAND ST

WIN/STORET

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 07-09-18 Time 1210 | Eastern / Central | Composite end Date — Time — | Bottle Group(s) (See pg 2): B

Matrix (type, e.g., Salt, Fresh, etc): Surface Water Fresh | Diss. Oxygen 3.3 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 27.1 | pH 7.3 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 403

Salinity (ppt) 0.19 | Comments DO% 42.0

Location

WIN / FIELD ID: 20030429

Field ID: WILLIAMSON CREEK AT HUGH EDWARDS

WIN/STORET

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 07-09-18 Time 1040 | Eastern / Central | Composite end Date — Time — | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Surface Water Fresh | Diss. Oxygen 7.27 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 25.3 | pH 7.5 | Sample Depth 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm) 236

Salinity (ppt) 0.11 | Comments DO% 88.0

Location

Field ID/Win ID: 20030095

Field ID: Wills Br. at Lane Ave.

WIN/STORET

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 07-09-18 Time 1105 | Eastern / Central | Composite end Date — Time — | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Surface Water Fresh | Diss. Oxygen 4.0 ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 25.0 | pH 6.84 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 300

Salinity (ppt) 0.14 | Comments DO% 49.0

Location

WIN / Field ID: G2NE1165

Field ID: Williamson cr. 300m Down from Jammes

WIN/STORET

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 07-09-18 Time 0845 | Eastern / Central | Composite end Date — Time — | Bottle Group(s): A1C

Matrix (type, e.g., Salt, Fresh, etc): Surface Water Fresh | Diss. Oxygen 5.9 ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 25.1 | pH 7.48 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 256

Salinity (ppt) 0.12 | Comments DO% 72.0

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
P. O'Connor	07-09-18 1400	FED EX	1 (2) total	1400	

Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~3~~ 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: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	~~3~~ to ALS
	NE-ALS-ECQ						
Group: A	Bottle Type:	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	PCR-FILTER						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	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: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	NE-ALS-ECQ						
Group: B	Bottle Type:	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	PCR-FILTER						
Group: B	Bottle Type:	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	W-E8321-DI						

Request Number: RQ-2018-06-25-07

LSJR West 1 2018

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Collected By: J. Parrish, P. O'Connor

Field Report Prepared By: P. O'Connor

Sampling Agency: DEAR NED ROC

Location	Field ID/Win ID: 20030582	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07-09-18 Time 1140	Eastern (circled) / Central	Composite end Date — Time —	Bottle Group(s) (See pg 2)
Field ID		Matrix (type, e.g., Salt, Fresh, etc): Surface water Fresh	Diss. Oxygen: 7.1 ☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L): —	A
WIN/STORET: Wills Br. North Fork at Old Middleburg Rd..		Temp (C): 25.2	pH: 7.56	Sample Depth: 0.2 ☐ ft ☒ m	Sp. Conductance (umho/cm): 437	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt): 0.21	Comments: DO% 86.0			

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 ☐ ft ☐ m	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 ☐ ft ☐ m	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 ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
P O'Connor	07-09-18 1400	FED EX	2 (total)		

Group: A	Bottle Type: P-1L	# of Bottles: 3	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: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2 to ALS
	NE-ALS-ECQ					
Group: A	Bottle Type: QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	PCR-FILTER					
Group: A	Bottle Type: BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	W-E8321-DI W-E8321-MS					
Group: A	Bottle Type: P-500ML	# of Bottles: 3	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: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F					
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	NE-ALS-ECQ					
Group: B	Bottle Type: QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	PCR-FILTER					
Group: B	Bottle Type: BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	W-E8321-DI					

Group C W-MI-QLDC P 2Liter # Bottles (2) Preservative For malla Enter # Bottles Sent to LAL 2

Group: B Bottle Type: BG-500ML # of Bottles: 3 Preservative: ICE **Enter Number of Bottles Sent to Lab** 3

W-E8321-MS

Group C MrFWALPC ICE Formalin 2 bottle

Cooler Packing Worksheet for Request: RQ-2018-06-25-07
LSJR West 1 2018
Ship Cooler On: 6/15/2018
Customer/Project: NE-DIST/SMP

Assigned To: GREENWOO_J
Requester: Jeremy M. Parrish
Priority: 3

904-256-1700
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256-7577

Attn: Jeremy.M.Parrish@dep.state.fl.us

Please return packing list with sample submittal forms.

Comments:
No preservatives needed.

Requested Analyses:

Bottle Group: A **# of Sites: 3**

Container ID: P-1L **Qty: 3** **Preservation: ICE** **Lot #** 0007606

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L **Qty: 3** **Preservation: ICE** **Lot #** 1223623

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI **Qty: 3** **Preservation: ICE** **Lot #** L18038

Description:

Analysis	Description
NE-ALS-ECQ	Escherichia coli by Colilert Quanti-Tray method by ALS Environmental Laboratory

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Container ID: QPCR-P-250ML **Qty: 6** **Preservation: ICE** **Lot #** 0026607888

Description: 250ml Sterile Nalgene (2) Affix PCR Instruction Label to container

Analysis	Description
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

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Container ID: BG-500ML **Qty: 3** **Preservation: ICE** **Lot #** 0071432

Description: Brown Glass Bottle 500ML Affix BLUE dot to container.

Analysis	Description
W-E8321-DI	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML **Qty: 3** **Preservation: ICE And H2SO4** **Lot #** 0070084

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 3** **Preservation: FILTER-ICE** **Lot #** 0070886

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B **# of Sites: 3**

Container ID: P-250ML-WO-THI **Qty: 3** **Preservation: ICE** **Lot #** L180238

Description:

Analysis	Description
NE-ALS-ECQ	Escherichia coli by Colilert Quanti-Tray method by ALS Environmental Laboratory

Container ID: QPCR-P-250ML **Qty: 6** **Preservation: ICE** **Lot #** 00066280

Description: 250ml Sterile Nalgene (2) Affix PCR Instruction Label to container

Analysis	Description
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML **Qty: 3** **Preservation: ICE** **Lot #** 00071432

Description: Brown Glass Bottle 500ML Affix BLUE dot to container.

Analysis	Description
W-E8321-DI	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By: [signature] Number of Coolers: 2 Date: 6/8/18

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ✓ FedEx Bills, if applicable
- ✓ Plastic Bags/Zip Ties
- ___ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-06-25-07

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR#

CAS Contract

Project Name: LSJR West	Project Number: 2018-06-25-07
Project Manager: Jeremy Parrish	Email Address:
Company/Address: FDEP 8800 Baymeadows Way W. Jax. Fl. 32256	
Phone #: 904 256-1700	FAX #:
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 8

NUMBER OF CONTAINERS: E coli

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ICE

	CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION
1	62NE1165		7/9/18	845	SW	
2	20030429			1040		
3	20030095			1105		
4	20030582			1140		
5	20030725			1210		

SPECIAL INSTRUCTIONS/COMMENTS

6.0°C

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO #
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP:

CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Jeremy Parrish	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Jeremy Parrish	Printed Name: Dennis Brantley	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: FDEP	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 7/9/18 1238	Date/Time: 7/9/18 1240	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client