



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

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Data Qualified?
Yes / No

STORET Station Name: Cracker Br. 1.5 abv 204

Date: 04-03-2017

STORET Station ID: 65NE0580 WBID: 2553

Latitude: 29.67169 (mm/dd/yyyy)

County: St Johns RQ: 2017-04-03-20 ORG ID: 21 FLA

Longitude: 81.24475 (Decimal Degrees)

Receiving Body of Water: Pellicer Cr. Field ID: _____

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<u>J. Parish</u> <u>P. Conrad</u>				☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole	
									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
Equipment ID <u>Ortho Kit # 2</u>								Collection Method				
								☒ Wading				
								☐ From Shore				
								☐ Other (note below)				
								☐ Via Boat				
								☐ Canoe/Kayak				
								☐ Electric Motor				
								☐ Gasoline Motor				

Water Level: Dry / Pooled / <u>Low</u> / Normal / High / Flooded						Matrix: <u>Fresh</u> Marine / DI					
Meter ID# <u>QUANTIFIT</u>						Photos: <u>Yes</u> / No					
						Tide Falling: Yes / No / <u>NA</u>					
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)	
EST	1200	0.1	0.2	4.2	48.3	7.6	0.3	NOB	618	22.1	
CEN								0.25			

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

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

Parameter Suite	Parameter Methods	Preservation	Acid Lots	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4			☐ <2
Metals	☒ W-ICPMS ☐ W-ICP	☒ Ice ☒ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-LCMS-DU ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Notes: aprox. 100m down from 200m
Mr. Nagles property

Field ID: G5NE058004032017

Cracker Br. @
1.5 mile N. of CR204 STORET

Date: _____ 2017

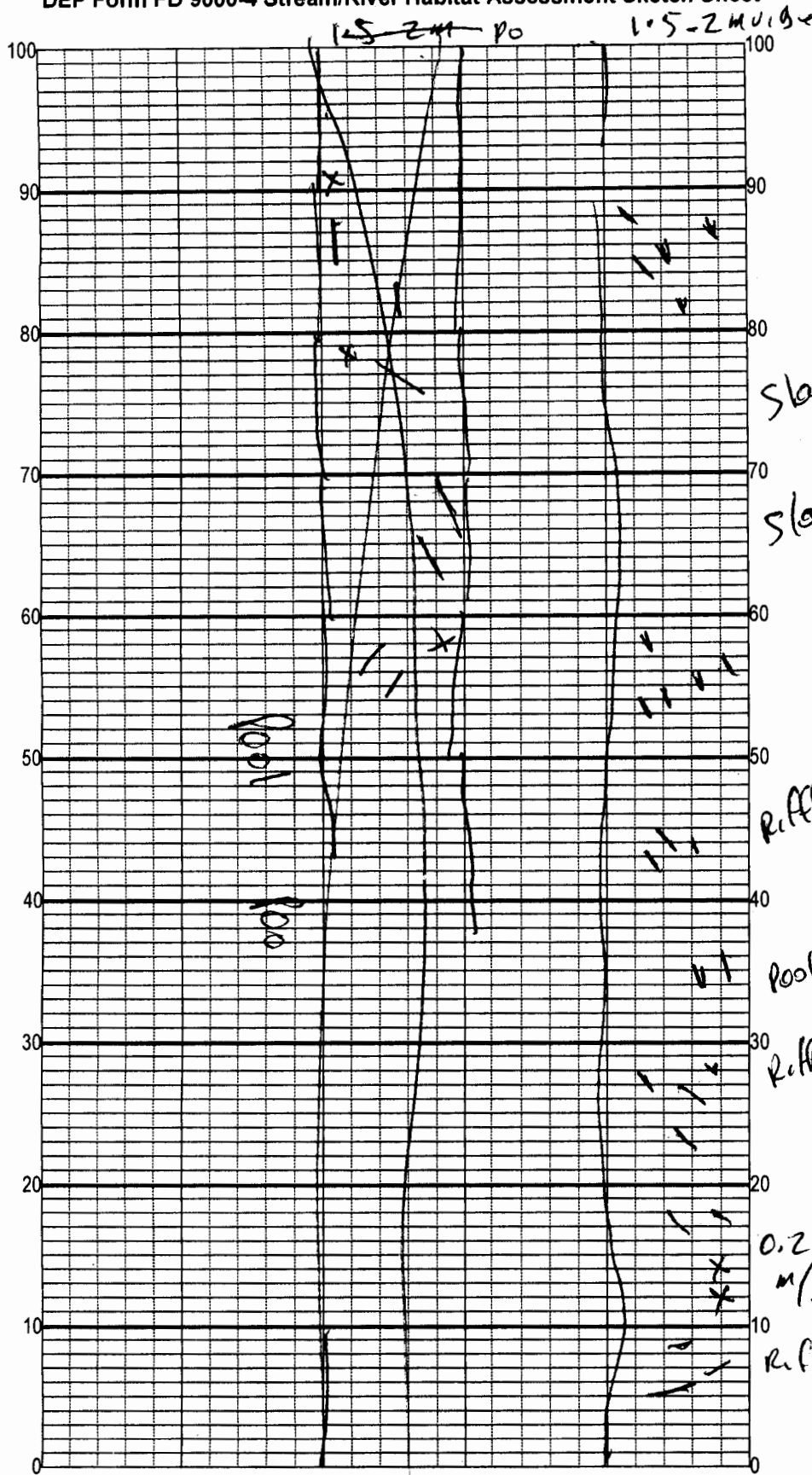
Signature: _____ Date Migrated to STORET: _____

Field Parameters Entered into LIMS: 29 4/7/17 (Initials/Date)

Field Parameters QC in LIMS: _____ (Initials/Date)

Field Sheets Scanned/Saved: _____ (Initials/Date)

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



Location: Cracken Bre
1.5 m N of CR204
 Date: 04/03/17
 Sampler: POCWA

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	_____ %
☐ _____	_____ %
☐ _____	_____ %
☐ Pools	total # observed = _____ # range expected = _____
Average width _____ m	
Average depth _____ m	
Velocity measured at _____ meter mark.	
WQ & chemistry taken at _____ 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.	

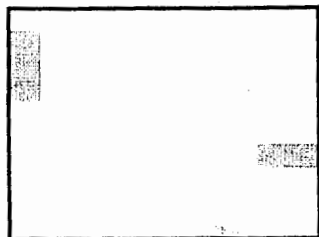
Plants observed / other notes:

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

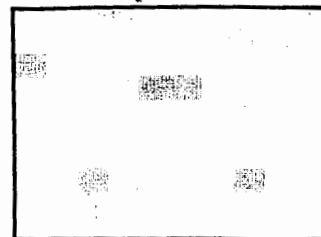
0.2 m/s
 riffle 1% Root
 11% Snags
 2% Leaf

Percent Cover Categories for macrophytes in a 10 m segment of a stream 5 m wide

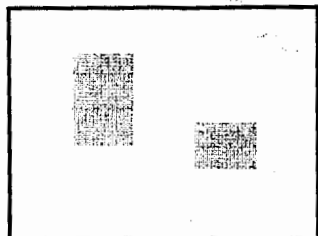
5% Macrophyte Coverage



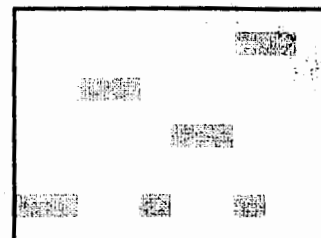
5% Macrophyte Coverage



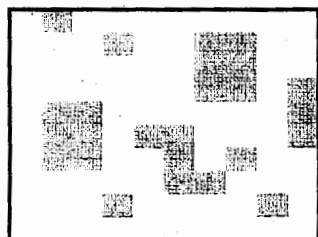
10% Macrophyte Coverage



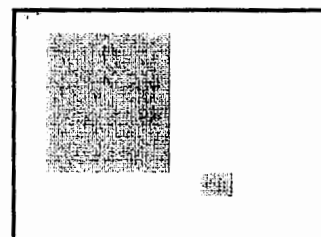
10% Macrophyte Coverage



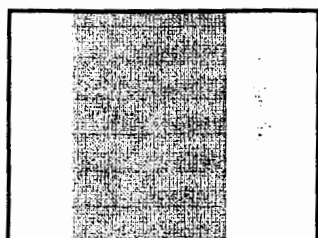
25% Macrophyte Coverage



25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



SAMPLE ID _____ ORG ID 21E1A LATITUDE _____
 COUNTY St Johns STORET # 65NE0580 LONGITUDE _____
 DATE 4/13/17 TIME 1200 SAMPLING AGENCY DEAR NEP ROC
 SITE NAME Cracker Br. 1 - Smith 204
 FIELD ID/NAME _____ RECEIVING BODY OF WATER Pollard Creek

RIPARIAN ZONE / STREAM FEATURES

Meter ID: QUANTA #1

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ 45 Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☒ 5 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) <u>1.5</u> Depth (m) <u>0.15</u> Velocity (m/sec) <u>0.1</u> Transect			
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) ☐				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				Canopy Cover % ☐ Open ☒ Heavily Shaded ☐ Lightly Shaded (11-45%) ☐ Moderate Shaded (46-80%)				Channelized: ☐ Some recovery ☐ Recent, severe	

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					
Woody Debris (Snags) <u>3.0</u> <u>5</u> <u>5</u> Undercut Banks / Roots <u>1.0</u> <u>5</u> <u>5</u> Leaf Packs or Mat <u>2.0</u> <u>5</u> <u>5</u> Aquatic Vegetation <u>85</u> <u>5</u> <u>5</u> Rock or Shell Rubble.. <u>10</u> <u>5</u> <u>5</u> Sand..... <u>10</u> <u>5</u> <u>5</u> Mud / Muck / Silt <u>10</u> <u>5</u> <u>5</u> Other <u>10</u> <u>5</u> <u>5</u> Other <u>10</u> <u>5</u> <u>5</u>			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>22.1</u> <u>7.6</u> <u>4.2</u> <u>48.3</u> <u>618</u> <u>0.3</u> <u>0.28</u> Mid: <u>0.1</u> <u>22.1</u> <u>7.6</u> <u>4.2</u> <u>48.3</u> <u>618</u> <u>0.3</u> <u>0.2</u> Bottom: <u>0.1</u> <u>22.1</u> <u>7.6</u> <u>4.2</u> <u>48.3</u> <u>618</u> <u>0.3</u> <u>0.2</u> System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐					
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☒ ☐ ☐ ☐ Fish: ☐ ☒ ☐ ☐ Aquatic Plants: ☐ ☒ ☐ ☐ Iron/Sulfur Bacteria: ☐ ☐ ☒ ☐			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: _____					
			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐ Color Tannic ☒ Green (Algae) ☐ Clear ☒ Other (Specify) ☐ Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐					

AMBIENT FIELD CONDITIONS / NOTES:

RG-2017-04-03-20

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:

Jeremy Parnell

Jeremy Parnell

4/13/17

5610 77447

Rps 8646

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Cracker L. Sm. abv. 204 County: St Johns Date: 4/3/17 Investigators: JP/PO

Transect (m)	Point 1=right	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	N	N		60	1	N	N		
	2					2				
	3					3				
	4					4				
	5			94		5				96
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N	N		70	1	N	N		
	2					2				
	3					3				
	4					4				
	5			92		5				94
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N	N		80	1	N	N		
	2					2				
	3					3				
	4					4				
	5			88		5				96
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N	N		90	1	N	N		
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N	N		100	1	N	N		
	2					2				
	3					3				
	4					4				
	5			92		5				96
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	N			1	N	N		
	2					2				
	3					3				
	4					4				
	5			86		5				
	6					6				
	7					7				
	8					8				
	9					9				

STORET Station Number: 65NE0580

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 No
Linear Veg Survey No
Habitat Assessment Y
SCI/Biorecon Y
Water sample Y

RQ- 2017-04-03-20

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%.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter QUANTA #1 RQ- 2017-04-03-20 Project UEC S. Biology

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/04/2016 02/2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	PO Com	04/03/17	0740	23.4	8.51	8.52	100.0	—	—	Pass	LAD
ICV	V	V	0743	23.7	8.53	8.52	99.8	—	—	Pass	LAD
CCV	PO Com	04/03/17	1435	23.4	8.51	8.40	98.1	—	—	Pass	LAD
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Explr. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	PO Com	04/03/17	0745	14101A	11/2017	1000	1000	Pass	LAD
ICV	V	V	0750	161101B	05/2017	100	100	Pass	LAD
CCV	PO Com	04/03/17	1442	161101B	05/2017	100	100	Pass	LAD
CCV	V	04/03/17	145	161101C	11/2017	50,000	51300	Pass	LAD

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Explr. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	PO Com	04/03/17	0751	2702047	02/19	7.0	7.00	—	Pass	LAD
Calibr.		04/03/17	0755	2608G26	08/2018	4.0	4.00	—	Pass	LAD
Calibr.	V	04/03/17	0756	2608E35	02/2018	10.0	9.82	—	Pass	LAD
ICV	PO Com	04/03/17	1450	2702047	02/19	7.00	7.02	—	Pass	LAD
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification N/A

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Scanned