



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 1

Data Qualified?
Yes / No

Location/STORET Station Name: Mill Branch @ Old San Mateo Rd. Date: 04/25/2017
(mm/dd/yyyy)

STORET # 20030577 WBID: 2592 Latitude: 29.6467
(Decimal Degrees)

County: Putnam RQ - 2017-04-24-26 ORG ID: 21FLA Longitude: 81.5933
(Decimal Degrees)

Receiving Body of Water: St. Johns R. Field ID: See Label

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
<u>Pet O'Connell</u>					☒	☒	☒	☒	☒

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☐ Syringe		
☐ Dipper	☐ Other		
Equipment ID OrthoKit # <u>2</u>			
Collection Method			
☒ Wading	☐ Via Boat		
☐ From Shore	☐ Canoe/Kayak		
☐ Other (note below)	☐ Electric Motor		
	☐ Gasoline Motor		

Water Level: Dry / Pooled / Low / Normal / High / Flooded Matrix: Fresh / Marine / DI

Meter ID# Quest Photos: Yes / No Tide Falling: Yes / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1030	0.3	0.3	6.51	72.3	7.1	1.94	0.65	3700	19.9
CEN	1115	0.2	0.6	5.74	65.1	7.12	1.94	0.65	3700	20.11

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 Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>6302030</u>	<u>10/8/17</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ 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	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes:

Field ID:
G2NE058404252017
Mill Br. @ Old San Mateo Rd. STORET
20030577

Signature: Pet O'Connell Date: 4/25/17

Field Parameters Entered into LIMS: 4/27/17 Field Parameters QC in LIMS:
(Initials/Date) (Initials/Date)

Date Migrated to STORET: Field Sheets Scanned/Saved:
(Initials/Date) (Initials/Date)

SAMPLE ID 77993 ORG ID 21 FLA 21 FIA LATITUDE 29 34 04.7 29 65 1306
 COUNTY Putnam STORET # 20030681 LONGITUDE 81 34 58.4 81.58 26688
 DATE 04-25-17 TIME 1245 SAMPLING AGENCY NE ROC
 SITE NAME Mill Br @ McCormick Rd E.
 FIELD ID/NAME _____ RECEIVING BODY OF WATER LSSR

RIPARIAN ZONE / STREAM FEATURES

Meter ID: QUANTA #1

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>15</u> Silviculture <u>50</u> Field/Pasture <u>30</u> Agricultural <u>5</u> Residential <u>5</u> Commercial <u>5</u> Industry <u>5</u> Other (Specify) <u>5</u>								Landscape Development Intensity Index (LDI) <u>5</u>	
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						Typical Width (m) <u>3</u> Depth (m) <u>0.25</u> Velocity (m/sec) <u>0.25</u> Transect <u>3</u> m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>18</u> Right Bank: <u>18</u>				Hydrologic Modification Score (per FT 3101) <u>6</u>				m/s <u>0.25</u> m/s <u>0.25</u> m/s <u>0.25</u>	
High Water Mark: <u>0.7</u> + <u>0.2</u> = <u>0.9</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				m deep <u>0.25</u> m deep <u>0.25</u> m deep <u>0.25</u>	
Artificially ☐ No ☒ Some recovery ☐ Mostly recovered, more sinuous ☐ Recent, severe				Canopy Cover % ☐ Open ☒ Heavily Shaded ☐ Lightly Shaded (11-45%) ☐ 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				WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: _____ Mid: <u>0.1</u> <u>20.4</u> <u>7.2</u> <u>8.0</u> <u>89</u> <u>3,570</u> <u>1.86</u> <u>1108</u> Bottom: _____ System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____									
Woody Debris (Snags) <u>1</u> <u>1</u> <u>1</u> Undercut Banks / Roots <u>1</u> <u>1</u> <u>1</u> Leaf Packs or Mat <u>1</u> <u>1</u> <u>1</u> Aquatic Vegetation <u>1</u> <u>1</u> <u>1</u> Rock or Shell Rubble <u>1</u> <u>1</u> <u>1</u> Sand <u>98</u> <u>1</u> <u>1</u> Mud / Muck / Silt <u>1</u> <u>1</u> <u>1</u> Other <u>1</u> <u>1</u> <u>1</u> Other <u>1</u> <u>1</u> <u>1</u>				Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ 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: _____				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:	☐	☐	☒	☐

AMBIENT FIELD CONDITIONS / NOTES: Irrigation water for Potatoe/corn Agriculture Dominates
 Stream flow RQ-2017-04-24-26
 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 B. Davis, P. O'Connor

SIGNATURE [Signature]

shio 77493

MS 8673

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Mill Br. @ McCornick Rd					County: Putnam		Date: 04-25-17		Investigators: B. Davis, P. O'Connor	
STORET Station Number: 20030577										
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			60	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			84	
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			95		5			92	
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N				1	N			
	2					2				
	3					3				
	4					4				
	5			92		5			96	
	6					6				
	7					7				
	8					8				
	9					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 densimeter 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%.

Secchi depth 1.0
Estimated? ✓

points ranked 4-6 0
total points assessed 1
% 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-2017-04-24-26

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

WBID 2592
Sho
77553

DEP-SOP-001/01: Form FD 9000-5
STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
STREAM/RIVER HABITAT ASSESSMENT FIELD SHEET

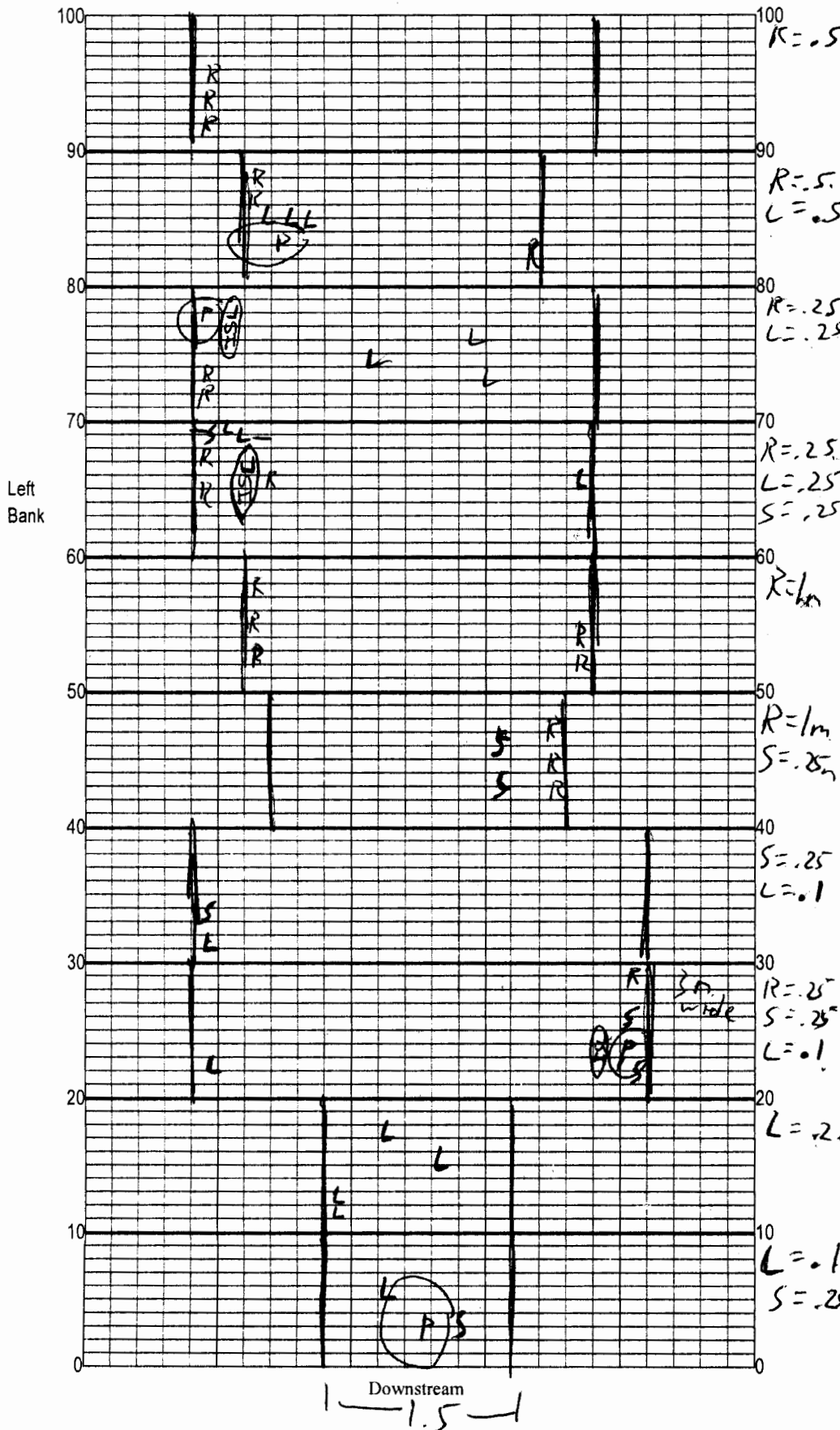
SUBMITTING AGENCY CODE: <u>21FLA</u>	STORET STATION NUMBER: <u>20030681</u>	DATE (MM/DD/YY): <u>4/25/17</u>	RECEIVING BODY OF WATER: <u>SJR</u>
SUBMITTING AGENCY NAME: <u>DEARNED</u>			
REMARKS:	COUNTY: <u>Putnam</u>	LOCATION: <u>Mill Branch @ McCollum Rd E.</u>	FIELD ID/NAME:

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>3</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <u>3</u> 2 1
Substrate Availability <u>2</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 <u>3</u> 2 1
Water Velocity <u>1.5</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 <u>15</u> 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 sate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>13</u> Primary Score <u>33</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 <u>13</u> 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>8</u>	20 19 18 17 16	15 14 13 12 11	10 9 <u>8</u> 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>5</u> Left Bank <u>5</u>	10 9	8 7 6	<u>5</u> 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>10</u>	<u>10</u> 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>8</u> Left Bank <u>6</u> Secondary Score <u>46</u>	10 9	<u>8</u> 7 6	5 4	3 2 1

8779 TOTAL SCORE

Date: <u>4/25/17</u>	Analyst: <u>Brian Davis</u>	Signature: <u>B. Davis</u>
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DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet



Location: Mill Branch
Date: 4/25/17
Sampler: Brian Davis

100 m: Latitude _____
Longitude _____
0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

☐ S	Snags	<1
☐ R	Roots/undercut banks	1.25
☐ L	Leaf Packs (or mats)	<1
☐ V	Aquatic Macrophytes	0
☐		
☐		
☐ P	Pools	total # observed = 3 # range expected = 4

Average width 3 m
Average depth 0.1 m

Velocity measured at 50 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:

$S = 1.75m$
 $R = 3.75m = 1.25\%$
 $L = 1.55m$

<2m Veg

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

Waterbody: Mill Branch @ McConnick Rd	Date: 7/25/17	County: Putnam	Storet Number: 20030517
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Analyst: <u>Burton Davis</u>	Signature: <u>B. Davis</u>
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Comments: <u>52m Vegetation</u>	
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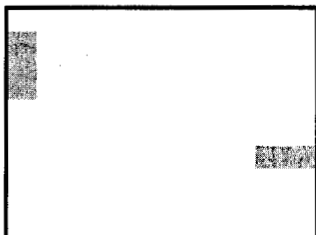
Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

[illegible]

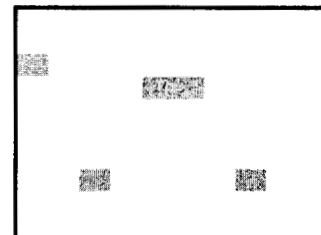
FDEP FORM FD 9000-32 LINEAR VEGETATION SURVEY FIELD SHEET

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

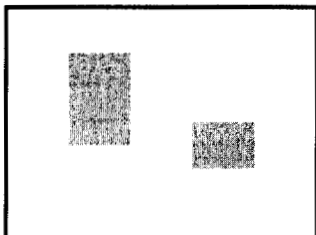
5% Macrophyte Coverage



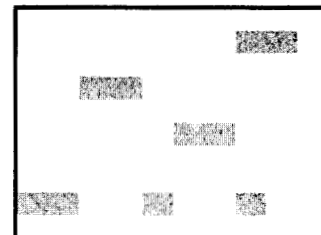
5% Macrophyte Coverage



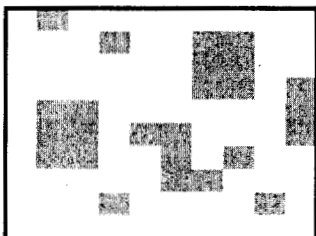
10% Macrophyte Coverage



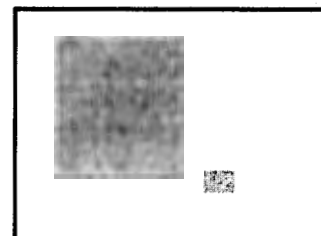
10% Macrophyte Coverage



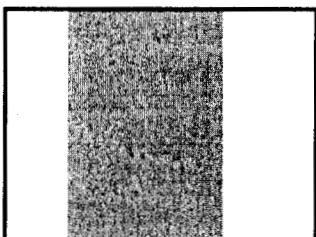
25% Macrophyte Coverage



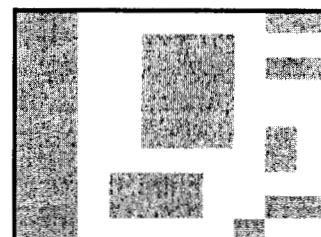
25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



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 name.

Meter Quanta #1

RQ- 2017-04-24-26

Project

- 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 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.	<u>P. O'Connor</u>	<u>04-25-17</u>	<u>0655</u>	<u>22.5</u>	<u>8.66</u>	<u>8.63</u>	<u>100.0</u>	<u>-</u>	<u>-</u>	<u>Pass</u>	<u>LAB</u>
ICV	<u>V</u>	<u>V</u>	<u>0700</u>	<u>22.5</u>	<u>8.66</u>	<u>8.63</u>	<u>100.1</u>	<u>-</u>	<u>-</u>	<u>Pass</u>	<u>LAB</u>
CCV	<u>B. J. De</u>	<u>1607</u>	<u>1607</u>	<u>25.43</u>	<u>8.20</u>	<u>8.27</u>	<u>100.8</u>	<u>-</u>	<u>-</u>	<u>P</u>	<u>L</u>
CCV		<u>4/25/17</u>									

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 #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>P. O'Connor</u>	<u>04-25-17</u>	<u>0703</u>	<u>161101A</u>	<u>11/2017</u>	<u>1000</u>	<u>1000</u>	<u>Pass</u>	<u>LAB</u>
ICV	<u>V</u>	<u>V</u>	<u>0705</u>	<u>161101B</u>	<u>05/2017</u>	<u>1000</u>	<u>100</u>		
CCV	<u>B. J. De</u>	<u>4/25/17</u>	<u>1609</u>	<u>1298113</u>	<u>12/17</u>	<u>12,900</u>	<u>13,090</u>	<u>P</u>	<u>L</u>
CCV									

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 #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>P. O'Connor</u>	<u>04-25-17</u>	<u>0707</u>	<u>2702C47</u>	<u>02/2019</u>	<u>7.0</u>	<u>7.00</u>	<u>-</u>	<u>Pass</u>	<u>LAB</u>
Calibr.	<u>V</u>	<u>V</u>	<u>0717</u>	<u>2610F42</u>	<u>10/2018</u>	<u>4.0</u>	<u>4.00</u>	<u>-</u>	<u>Pass</u>	<u>LAB</u>
Calibr.	<u>V</u>	<u>V</u>	<u>0725</u>	<u>2608E35</u>	<u>02/2018</u>	<u>10.0</u>	<u>9.96</u>	<u>-</u>	<u>Pass</u>	<u>LAB</u>
ICV	<u>B. J. De</u>	<u>4/25/17</u>	<u>1617</u>	<u>2608E35</u>	<u>02/18</u>	<u>10</u>	<u>9.97</u>	<u>-</u>	<u>P</u>	<u>L</u>
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

NF scanned

2213 R

SPC @ MAIN CANAL 3000 μ mohs

SPC @ 13A CROSS (UPSTREAM) 2,480

2592 @ ~~OLD~~ E. McCormick Rd
 μ mohs

2960 SPC