



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

PAGE 1 OF 1

Data Qualified?
Yes / No

STORET Station Name: Palm Coast Canal @ Old Kings Rd Date: 04/03/2017

STORET Station ID: G5NE0005 WBID: 2609A Latitude: _____

County: Flagler RQ: 2017-03-27 ORG ID: 21 FLA Longitude: _____

Receiving Body of Water: ICW Field ID: G5NE000504032017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
<u>J. Parvish</u> <u>P. O'Connor</u>					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole
										☐ Carboy	☐ Syringe	
										☐ Dipper	☐ Other	
										Equipment ID <u>Ortho Kit # 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# _____ 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 (umhos/cm)	Temp. (C°)
EST	10:15	0.3	1.0	5.8	71.1	7.7	0.29	VOB	594	25.5
CEN								1.05		

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	6302030		☐ <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-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 ☐ Enterococcus ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-LCMS-DU ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Notes: _____

Field ID: G5NE000504032017

Palm Coast Canal
St. Joe Canal
@ Old Kings

STORET

G5NE0005

Signature: P. O'Connor 04-03-2017

Field Parameters Entered into LIMS: AP 4/7/17 Field Parameters QC in LIMS: _____

Date Migrated to STORET: _____ Field Sheets Scanned/Saved: _____

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

SAMPLE ID _____ ORG ID 21 F1H LATITUDE _____
 COUNTY Flagler STORET # G5NE0005 LONGITUDE _____
 DATE 04/03/17 TIME 1015 SAMPLING AGENCY DEAR NED Roc
 SITE NAME PAIM COAST CANAL @ OLD KINGS RD
 FIELD ID/NAME G5NE000504032017 RECEIVING BODY OF WATER GRAHAM Swamp

RIPARIAN ZONE / STREAM FEATURES

Meter ID: QUANTA #1

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):

Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐

☐ ☐ ☐ ☐ ☐ 75 25 ☐ ☐

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: 6 Right Bank: 718

Hydrologic Modification Score (per FT 3101) 7-8

High Water Mark: 0.5 + 1.0 = 1.5
 (m) (above present water level) (present depth) (above bed)

Artificially Impounded

☒ Yes ☐ No

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

25 m wide

☐ m/s 0.05 m/s ☐ m/s

☐ m deep 1.0 m deep ☐ m deep

Artificially ☐ No

☐ Mostly recovered, more sinuous

Canopy Cover % ☒ Open

☐ Lightly Shaded (11-45%)

Channelized: ☐ Some recovery

☒ Recent, severe

☐ 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 ☒

SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☒ RPS ☒ LVS

☐ LCI ☐ BioRecon

INVERT PERI
 % # Times # Times
 Coverage Sampled Sampled

Woody Debris (Snags) 41 ☐ ☐

Undercut Banks / Roots ☐ ☐

Leaf Packs or Mat ☐ ☐

Aquatic Vegetation 225 ☐ ☐

Rock or Shell Rubble ☐ ☐

Sand 50 ☐ ☐

Mud / Muck / Silt 20 ☐ ☐

Other CEMENT 5 ☐ ☐

Other ☐ ☐

WATER

QUALITY

Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)
 Top: 0.3 25.5 7.7 5.8 71.1 594 0.29 1.05
 Mid: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
 Bottom: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
 TOTAL DEPTH 1.0

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

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: 6302050 Exp: 08/29/17

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

Algae Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☒ Yes ☐ No

Lot Number: ICE Exp: NA

Clarity Clear ☒ Slightly Turbid ☐
 Turbid ☐ Opaque ☐

ABUNDANCE

Not Obs. Rare Common Abundant

Periphyton: ☐ ☐ ☐ ☒

Fish: ☐ ☐ ☒ ☐

Aquatic Plants: ☐ ☐ ☐ ☒

Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐

AMBIENT FIELD CONDITIONS / NOTES: RQ-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

J. Parrish, P. O'Connor

SIGNATURE:

Peter Olson

1205 8637

SN 077443

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Palm Coast Canal Rd Range County: Flagler Date: 7/3/17 Investigators: Blum

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	6	N		60	1	6	N	
	2	6	N			2	N	N	
	3	6	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	0		5	N	N	0
	6	5	N			6	N	N	
	7	6	N			7	5	N	
	8	N	N			8	6	N	
	9	6	N			9	6	N	
10	1	N	N		70	1	6	N	
	2	N	N			2	6	N	
	3	N	N			3	6	N	
	4	N	N			4	5	N	
	5	5	N	0		5	6	N	0
	6	6	N			6	N	N	
	7	6	N			7	N	N	
	8	6	N			8	6	N	
	9	6	N			9	6	N	
20	1	6	N		80	1	6	N	
	2	6	N			2	6	N	
	3	N	N			3	6	N	
	4	N	N			4	N	N	
	5	N	N	0		5	N	N	0
	6	6	N			6	6	N	
	7	6	N			7	6	N	
	8	N	N			8	6	N	
	9	N	N			9	6	N	
30	1	6	N		90	1	6	N	
	2	6	N			2	6	N	
	3	6	N			3	6	N	
	4	6	N			4	N	N	
	5	6	N	0		5	N	N	0
	6	N	N			6	N	N	
	7	6	N			7	6	N	
	8	6	N			8	6	N	
	9	6	N			9	6	N	
40	1	6	N		100	1	6	N	
	2	6	N			2	6	N	
	3	N	N			3	6	N	
	4	N	N			4	N	N	
	5	6	N	0		5	N	N	0
	6	6	N			6	6	N	
	7	N	N			7	N	N	
	8	6	N			8	6	N	
	9	6	N			9	6	N	
50	1	6	N		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.				
	2	6	N						
	3	N	N						
	4	N	N		Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.				
	5	N	N	0					
	6	N	N		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.				
	7	6	N						
	8	6	N		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%.				
	9	6	N						

STORET Station Number:

Secchi depth 1.90
 Estimated? 1.90
 # points ranked 4-6 64
 total points assessed 99
 % points ranked 4-6 65%

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

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

Waterbody: Palm Coast Canal Date: 4/3/17 County: Flagler Storet Number: GSUF0005

Analyst: P. Cerny / J. Lush Signature: [Signature]

Comments:

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	
<i>Alternanthera philoxeroides</i>	P	P	P	P	P	P	P	P	P	P		<i>Micranthemum glomeratum</i>											
<i>Bacopa caroliniana</i>												<i>Micranthemum umbrosum</i>											
<i>Bacopa monnieri</i>												<i>Myriophyllum aquaticum</i>	P	P	P	P	P	P	P	P	P	P	
<i>Bidens mitis</i>												<i>Najas guadelupensis</i>	P	P	P	P	P	P	P	P	P	P	
<i>Boehmeria cylindrica</i>												<i>Nuphar luteum</i>	C	C	C	C	C	C	C	C	C	C	
<i>Centella asiatica</i>												<i>Orontium aquaticum</i>											
<i>Ceratophyllum demersum</i>												<i>Panicum hemitomon</i>											
<i>Chara</i>												<i>Panicum repens</i>	P	P	P	P	P	P	P	P	P	P	
<i>Cicuta maculata</i>												<i>Panicum rigidulum</i>	P	P	P	P	P	P	P	P	P	P	
<i>Cladium jamaicense</i>												<i>Pistia stratioides</i>	P	P	P	P	P	P	P	P	P	P	
<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>Diodia virginiana</i>												<i>Potamogeton illinoensis</i>											
<i>Eichhornia crassipes</i>				P	P	P	P	P	P	P		<i>Ruellia simplex</i>											
<i>Eleocharis (wispy viviparous)</i>												<i>Sacciolepis striata</i>					P	P					
<i>Hydrilla verticillata</i>												<i>Sagittaria kurziana</i>											
<i>Hydrocotyle</i>	P	P	P	P	P	P	P	P	P	P		<i>Sagittaria lancifolia</i>											
<i>Hygrophila polysperma</i>												<i>Sagittaria latifolia</i>											
<i>Hymenocallis</i>												<i>Salvinia minima</i>	P	P	P	P	P	P	P	P	P	P	
<i>Lachnanthes caroliniana</i>												<i>Samolus parviflora</i>											
<i>Landoltia punctata</i>												<i>Saururus cernuus</i>											
<i>Lemna</i>	P	P	P	P	P	P	P	P	P	P		<i>Sparganium americanum</i>											
<i>Limnophila sessiflora</i>												<i>Typha</i>											
<i>Ludwigia leptocarpa</i>		P										<i>Vallisneria americana</i>											
<i>Ludwigia palustris</i>												<i>Zizania aquatica</i>											
<i>Ludwigia peruviana</i>	P											<i>Wolffella</i>	P	P	P	P	P	P	P	P	P	P	
<i>Ludwigia repens</i>												<i>Azolla</i>	C	C	C	C	C	C	C	C	C	C	
<i>Luziola fluitans</i>												<i>Cabomba</i>											

Utricularia PPPPPPPPPP

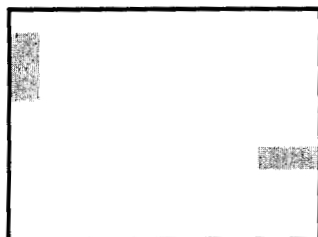
If no Dominant or Co-Dominant were selected, indicate with "X"

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																						

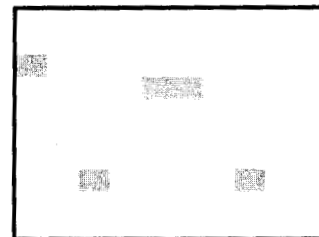
FDEP FORM FD 9000-32 LINEAR VEGETATION SURVEY FIELD SHEET

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

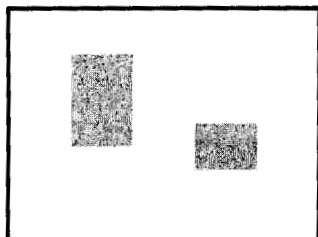
5% Macrophyte Coverage



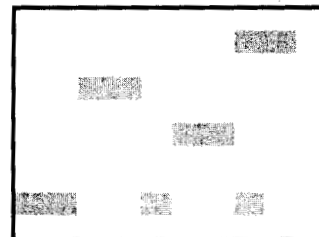
5% Macrophyte Coverage



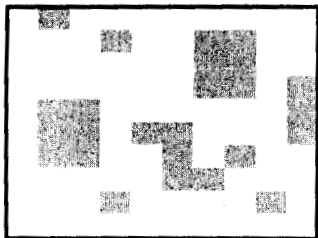
10% Macrophyte Coverage



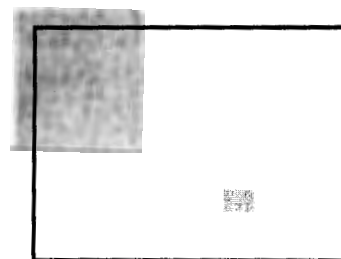
10% Macrophyte Coverage



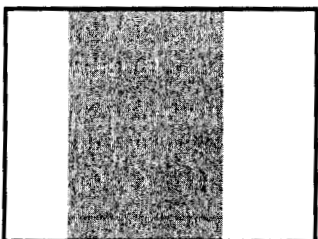
25% Macrophyte Coverage



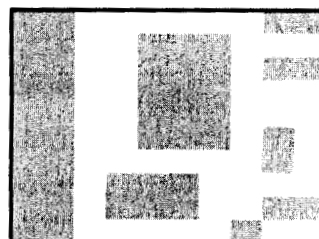
25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



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

77443
4/11/17

SUBMITTING AGENCY CODE: <u>2100</u>		STORET STATION NUMBER: <u>G5NE0005</u>	DATE (MM/DD/YY): <u>04/03/17</u>	RECEIVING BODY OF WATER: <u>GRAHAM SWAMP</u>
SUBMITTING AGENCY NAME: _____				
REMARKS: <u>CANAL</u>	COUNTY: <u>Flagler</u>	LOCATION: <u>Palm Coast Canal @ Kings Rd</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>6</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>13</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>1</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 space occurring: >1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>6</u> ----- Primary Score <u>26</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>5</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>5</u> Left Bank <u>5</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>5</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>8</u> Left Bank <u>8</u> ----- Secondary Score <u>46</u>	10 9	8 7 6	5 4	3 2 1

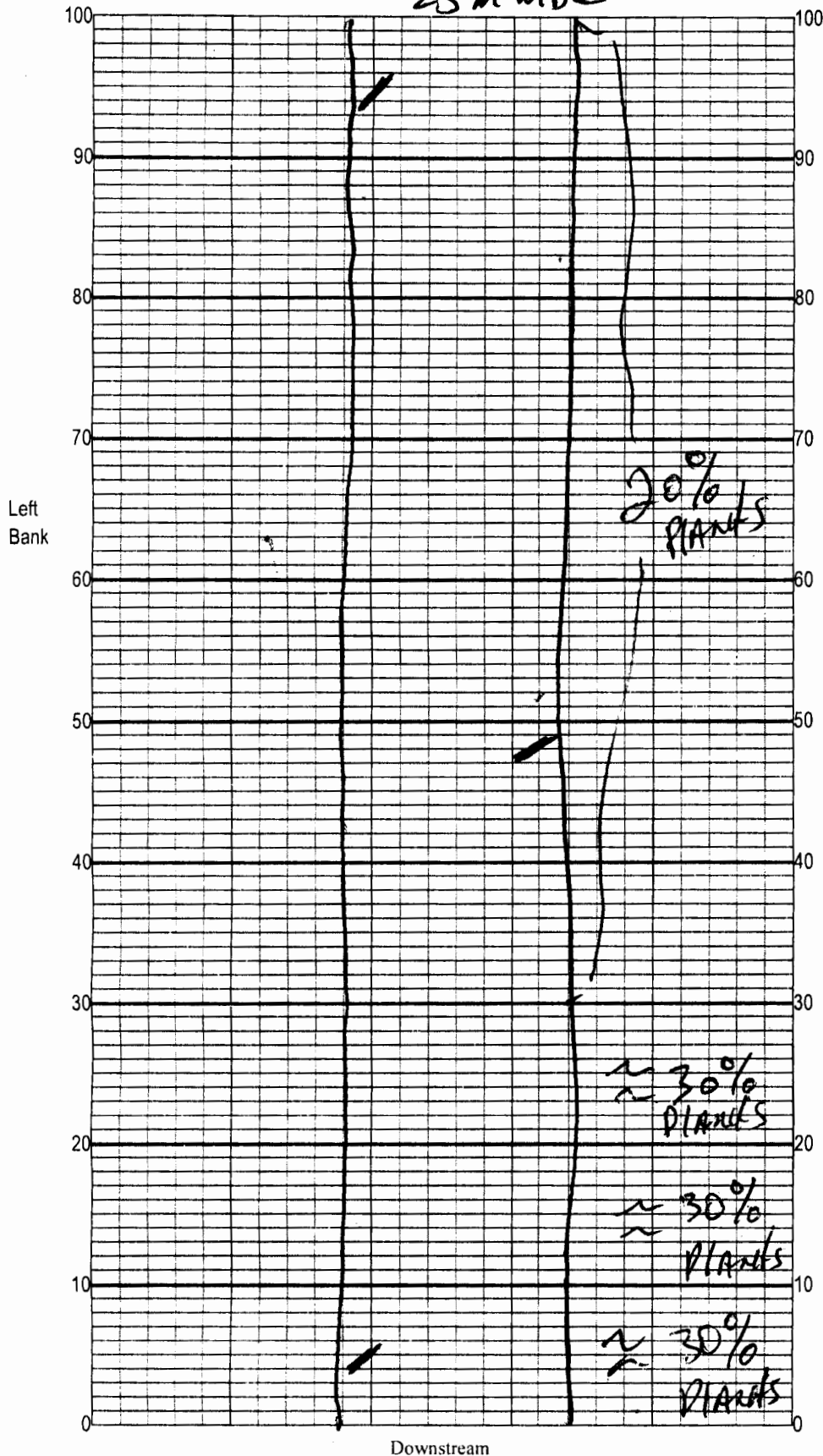
12

TOTAL SCORE

Date: <u>04/03/17</u>	Analyst: <u>P.O'Connor</u>	Signature: <u>[Signature]</u>
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DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet

25 m wide



Location: _____

Date: _____

Sampler: _____

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

- | | | |
|--------------------------|------------------------|--|
| ☐ | Snags | _____ |
| ☐ | Roots/undercut banks | _____ |
| ☐ | Leaf litters (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 Value:
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

≈ 25% plant
< 1% snag

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- 2017-04-03-20 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 Con	04/03/17	0740	23.4	8.51	8.52	100.0	—	—	Pass	LAD
ICV	V	V	0743	23.3	8.53	8.52	99.8	—	—	Pass	LAD
CCV	PO Con	04/03/17	1435	23.4	8.51	8.46	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 #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	PO Con	04/03/17	0745	14101A	11/2017	1000	1000	Pass	LAD
ICV	V	V	0750	161101B	05/2017	100	100	Pass	LAD
CCV	PO Con	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 #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	PO Con	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 Con	04/03/17	1456	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

Sameed