



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?
Yes / No

WIN Station Name: Bobcat Creek

Date: 03/19/2018

WIN/ Field ID: G3SD0131

WBID: 2033

Latitude: 27.05967

(mm/dd/yyyy)

County: DeSoto

ORG ID:

Longitude: -82.00745

(Decimal Degrees)

Receiving Body of Water: Peace River

RQ-2018- 03-19- 71

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Maryann Dugan								
Nicole reistad								
Gary Snorek								

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with: Secchi		
Equipment ID: D000000000		
Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled / <u>Low</u> / Normal / High / Flooded				Meter ID# 1205		Matrix: <u>Fresh</u> / Marine / DI				
Photos: <u>No</u>		Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising/ Falling/ Slack/NA		Tide Times: High <u>N/A</u> Low <u>N/A</u>				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)
EST	1440	0.3	0.15	0.3	4.24	45.5	6.63	✓	364	18.75
CEN										

Biological Samples Collected: None <u>HA</u> SCI <u>RPS</u> Algae ID <u>LVS</u> 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	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☒ H2SO4	7093060	4/3/18	☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3			☐ <2		
Filtered Nutrients	☒ W-P04-F ☒ Field Filtered 0.45 um 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-QIDC					☐ Formalin					
Periphyton	☐ ALGAE-ID					☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci					☐ Ice					
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice					
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA					☐ Ice					
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Other					

Notes:	Field ID/WIN	
	Location	G3SD0131
	Bobcat Creek in Preserve	
Signature: <u>Maryann Dugan</u>		Date: <u>03/19/2018</u>

Enter Field Parameters, Verify Station ID in LIMS DMT: _____		QC Station ID, Field Parameters in LIMS DMT: _____	
(Initials/Date)		(Initials/Date)	
Scan/Save Field Sheets <u>04/02/18</u>	Migrate Data to WIN: _____	Verify Data in WIN: _____	(Initials/Date)
(Initials/Date)	(Initials/Date)	(Initials/Date)	(Initials/Date)

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

PUT STICKER UP ^ HERE		STORET STATION NUMBER:	DATE (MM/DD/YYYY): 03/19/2016	SAMPLING AGENCY: FDEP South ROC
FIELD ID/NAME: G3SD 0131	COUNTY: DESOLO	LOCATION: BOBCAT CREEK	RECEIVING BODY OF WATER: PEACE RIVER	

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 12	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 8	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 10	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 41	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 15	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 6 Left Bank 7	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 10 Left Bank 10	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 7 Left Bank 7 ----- Secondary Score 62	10 9	8 7 6	5 4	3 2 1

103

TOTAL SCORE

Date: 03/19/2016	Analyst: MD, NR, GS, SC, KW	Signature: Harman Dorgan
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DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet

78347

Location: BOBCAT CREEK

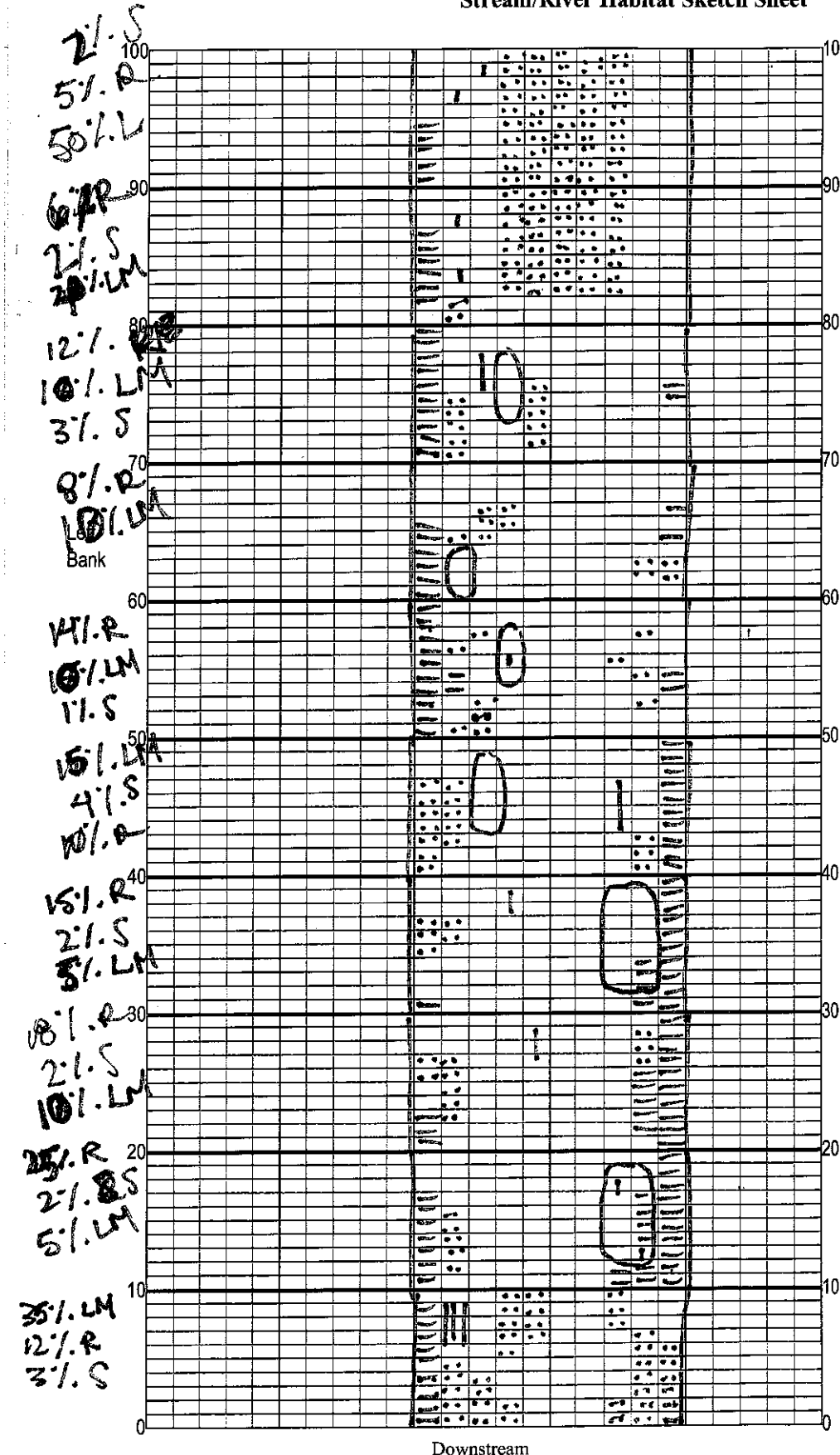
Date: 03/19/2018

Sampler: MD

100 m: Latitude	<u>27.05835</u>
Longitude	<u>-82.00528</u>
0 m: Latitude	<u>27.05917</u>
Longitude	<u>-82.00617</u>
Substrates: Code key, draw proportionate habitat abundance. %	
	Snags <u>2.1</u>
	Roots/undercut banks <u>12.5</u>
	Leaf Packs (or mats) <u>19.0</u>
	Aquatic Macrophytes <u> </u>
	<u> </u>
	<u>ROCK</u>
	Pools total # observed = <u>0</u> # range expected = <u>4-8</u>
Average width <u>2.0</u> m	
Average depth <u>0.4</u> m	
Velocity measured at <u>0</u> meter mark. ¹	
WQ & chemistry taken at <u>0</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:

15% RIVER
10% JORDAN



Downstream

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

Revision Date: June 2, 2011

DEP-SOP-001/01: Form FD 9000-3 (9/19/12)
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

RQ-2013-10-07-72

Date: 1/2/34



User Defined Space.
 Location, directions,
 samplers, whatever...

SAMPLE ID _____ ORG ID _____
 COUNTY DE SOTO SAMPLING AGENCY SROL
 DATE 03/19/2018 TIME 1440
 SITE NAME BOBCAT CREEK
 FIELD ID/NAME G3SD0101 RECEIVING BODY OF WATER PEACE RIVER

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>50</u> Silviculture _____ Field/Pasture <u>35</u> Agricultural _____ Residential <u>15</u> Commercial _____ Industry _____ Other (Specify) _____								Landscape Development Intensity Index (LDI) <u> </u>
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 <u>2.0</u> m wide <u>0.1</u> m/s <u>0.1</u> m/s <u>0.1</u> m/s <u>0.3</u> m deep <u>0.4</u> m deep <u>0.3</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>>18M</u> Right Bank: <u>>18M</u>				Hydrologic Modification Score (per FT 3101) <u> </u>				
High Water Mark: <u>0.5</u> + <u>0.4</u> = <u>0.9</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				
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 ☐																																																																														
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☐ RPS ☒ LVS ☐ LCI ☐ BioRecon <table border="1"> <thead> <tr> <th></th> <th>% Coverage</th> <th>INVERT # Times Sampled</th> <th>PERI # Times Sampled</th> </tr> </thead> <tbody> <tr><td>Woody Debris (Snags)</td><td></td><td></td><td></td></tr> <tr><td>Undercut Banks /Roots</td><td></td><td></td><td></td></tr> <tr><td>Leaf Packs or Mat</td><td></td><td></td><td></td></tr> <tr><td>Aquatic Vegetation</td><td></td><td></td><td></td></tr> <tr><td>Rock or Shell Rubble</td><td></td><td></td><td></td></tr> <tr><td>Sand/Silt</td><td></td><td></td><td></td></tr> <tr><td>Sand/Gravel</td><td></td><td></td><td></td></tr> <tr><td>Mud/Muck/Silt</td><td></td><td></td><td></td></tr> <tr><td>Other</td><td></td><td></td><td></td></tr> </tbody> </table>				% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)				Undercut Banks /Roots				Leaf Packs or Mat				Aquatic Vegetation				Rock or Shell Rubble				Sand/Silt				Sand/Gravel				Mud/Muck/Silt				Other				WATER QUALITY <table border="1"> <thead> <tr> <th></th> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr><td>Top:</td><td><u>0.5</u></td><td><u>19.8</u></td><td><u>6.6</u></td><td><u>4.2</u></td><td><u>46</u></td><td><u>364</u></td><td></td><td><u>0.3</u></td></tr> <tr><td>Mid:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>☒ VOB</td></tr> <tr><td>Bottom:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> Meter ID: <u>KEYS</u> Meter Verify: Y ☐ N ☐ SITE DEPTH: <u>0.3</u>							Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:	<u>0.5</u>	<u>19.8</u>	<u>6.6</u>	<u>4.2</u>	<u>46</u>	<u>364</u>		<u>0.3</u>	Mid:								☒ VOB	Bottom:								
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Iron/Sulfur Bacteria:	☒	☐	☐	☐																																																																																
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐			WEATHER CONDITIONS / NOTES: <u>clear, calm</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																	

SAMPLING TEAM

MD, NR, GS, SG, KW

SIGNATURE:

[Signature]

DATE:

03/19/2018

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

County: <u>Desoto</u>		Investigators <u>KW, MD, NR, SC, GS</u>				STORET Station Number:			
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	<u>W</u>			60	1	<u>W</u>		
	2					2	<u>W</u>		
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8	<u>W</u>		
	9					9	<u>W</u>		
10	1	<u>W</u>			70	1	<u>W</u>		
	2					2	<u>W</u>		
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8	<u>W</u>		
	9					9	<u>W</u>		
20	1	<u>W</u>			80	1	<u>W</u>		
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8	<u>W</u>		
	9					9	<u>W</u>		
30	1	<u>W</u>			90	1	<u>W</u>		
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8	<u>W</u>		
	9					9	<u>W</u>		
40	1	<u>W</u>			100	1	<u>W</u>		
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8	<u>W</u>		
	9					9	<u>W</u>		
50	1	<u>W</u>			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%.				
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								

Secchi depth	<u>0.35</u>
Estimated?	
# points ranked 4-6	
total points assessed	
% points ranked 4-6	

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	<u>X</u>
Habitat Assessment	<u>X</u>
SCI/Biorecon	
Water sample	<u>X</u>
RQ-	

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

BOBLAT HA

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD

Storet Number: ^ put sticker here

Date: 03/19/18

County: DE Soto

Waterbody: BOBLAT CREEK

Analyst: MARYANN DUGAN, NICOLE REISTAD, GARY SNOREK

Signature: Maryann Dugan

Comments: STEVEN LOFONE, KIRBY WOLFE

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. **bold is exotic invasive**

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											
Boehmeria cylindrica												Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara sp.												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											
Cyperus												Potamogeton illinoensis											
Diodia virginiana												Ruellia simplex											
Eichhornia crassipes												Sacciolepis striata											
Eleocharis (wispy viviparous)												Sagittaria kurziana											
Hydrilla verticillata												Sagittaria lancifolia											
Hydrocotyle sp.		X										Sagittaria latifolia											
Hygrophila polysperma												Salvinia minima											
Hymenachne amplexicaulis												Samolus parviflora											
Hymenocallis												Saururus cernuus											
Lachnanthes caroliniana												Sparganium americanum											
Landoltia punctata												Sphagneticola trilobata (Wedelia)											
Lemna sp.												Typha sp.											
Limnophila sessiflora												Urochloa mutica (Brachiaria)											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana												Salix carolinia										X	
Ludwigia repens												Osmunda regalis											X
Luziola fluitans																							
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																							