

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	Fisheating Creek at Picnic Lake				Sample Date:	12/27/2022	
WIN / Field ID:	G4SD0223	ORG ID:	21FLFTM	ENR:	-		
County:	Glades	WBID:	3201A1	STREAM	3F		
Receiving Body of Water:	Lake Okeechobee				RQ-	2022-12-05-35	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Gary Snorek		x		x	x
William Mullen	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe		Pole
	Syringe Lot# 1136544 2		Filter Lot# 17589311
	Secchi Equipment ID:	3312B	
Collection Method			
	Wading		Canoe/Kayak
x	From Shore		Electric Motor
			Gasoline Motor
	Depth Measured With	Secchi	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Friday
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
EST	1240	0.4	0.2	7.56	74.9	14.7	6.09	0.4	226.8	0.11
								VOB (s)		

Biological Samples Collected: HA LVS RPS

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
				Type	Lot#	Expiration Date	pH Check	
Microbiology								
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syringe Lot#:11365442; Filter Lot#:17589311			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA2229010	08/30/23	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA1105100	06/07/23	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates								
Organics (GC)	W-PSNP-TQ			Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise			
Molecular								
Periphyton								
Phytoplankton								
BOD								
DOC								
					SyringeLot#		FilterLot#	
Other(s)								
Field Comments:								
Comments on COC:								
Relinquish Date:	12/27/2022	Signature:						

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Save Field Sheets on Network: (Initials/Date)

Migrate Data to WIN: (Initials/Date)

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

SAMPLE ID _____ ORG ID 21FLFTM LATITUDE 26.9363814
 COUNTY Glades STORET # G4SD0223 LONGITUDE -81.3216279
 DATE 12/27/2022 TIME _____ SAMPLING AGENCY FDEP SOROC
 SITE NAME Fisheating Creek at Picnic Lake
 FIELD ID/NAME _____ RECEIVING BODY OF WATER Fisheating Creek

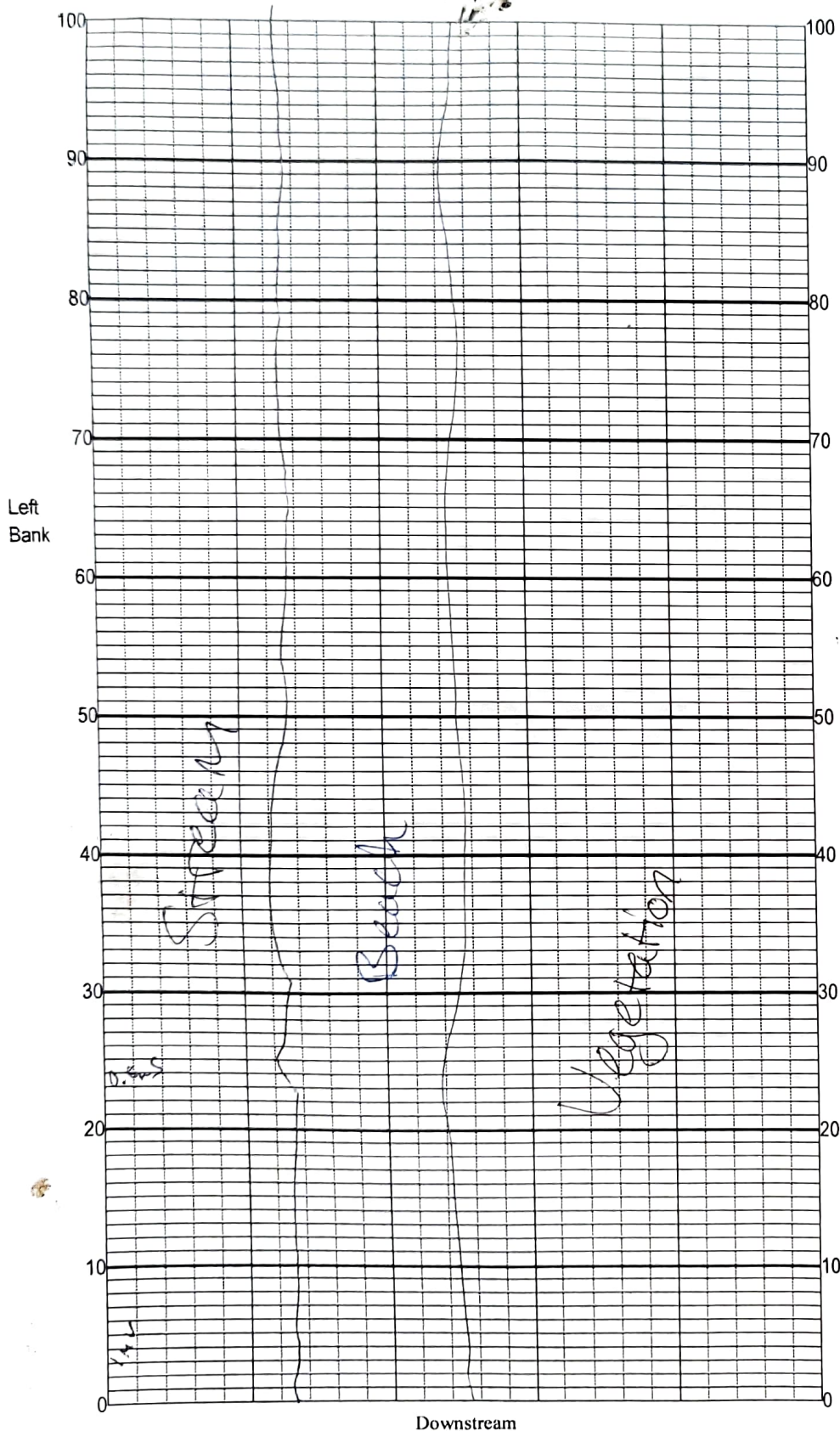
RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) : Forest/Natural 85% Silviculture Field/Pasture 4% Agricultural Residential 5% Commercial 5% Industry Other (Specify) Holding pond 1% 							Landscape Development Intensity Index (LDI) 1
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 40 m wide m/s 0.14 m/s m/s m deep 1 m deep m deep			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank : >18 Right Bank : >18		Hydrologic Modification Score (per FT 3101)					
High Water Mark: 0.5 + 1 = 1.5 (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" style="width:100%; border-collapse: collapse;"> <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> 0.0125 </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Undercut Banks / Roots</td> <td> 0 </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Leaf Packs or Mat</td> <td> 0 </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Aquatic Vegetation</td> <td> 50 </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td> 0 </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Sand.....</td> <td> </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Mud / Muck / Silt</td> <td> </td> <td> 0 </td> <td> 0 </td> </tr> <tr> <td>Other</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)	0.0125	0	0	Undercut Banks / Roots	0	0	0	Leaf Packs or Mat	0	0	0	Aquatic Vegetation	50	0	0	Rock or Shell Rubble..	0	0	0	Sand.....		0	0	Mud / Muck / Silt		0	0	Other				Other				WATER QUALITY <table border="1" style="width:100%; border-collapse: collapse;"> <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. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top :</td> <td> 0.2 </td> <td> 14.7 </td> <td> 6.09 </td> <td> 7.56 </td> <td> 74.9 </td> <td> 226.8 </td> <td> 0.11 </td> <td> 0.4 </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: Friday				Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top :	0.2	14.7	6.09	7.56	74.9	226.8	0.11	0.4	Mid:								☒ VOB	Bottom								
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Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SA2229010</u> Exp: <u>08/30/23</u>			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 ☐																																																																														
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AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																	
SAMPLING TEAM Gary Snorek William Mullen			SIGNATURE : <i>William Mullen</i>		DATE : 12/27/2022																																																																												

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: Fishcreek @ Pine Lake

Date: 12/22/22

Sampler: William Mullen & Garry S. Smith

100 m: Latitude 26.9361772
Longitude -81.3226294
0 m: Latitude 26.9363814
Longitude -81.3216279

Substrates: Code key, draw proportionate habitat abundance. %

<u>S</u>	Snags	<u>6.5/25</u>
<u>R</u>	Roots/undercut banks	<u>0</u>
<u>L</u>	Leaf Packs (or mats)	<u>0</u>
<u>V</u>	Aquatic Macrophytes	<u>50</u>
<u>CS</u>	Rocks	<u>0</u>
<u>P</u>	Pools	total # observed = <u>2</u> # range expected = <u>1-2</u>

Average width 40 m
Average depth 1 m

Velocity measured at 0 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:

7 sec = 1/7 = 0.14 M/S

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

SAMPLING AGENCY: <u>FDEP SOROC</u>		STORET STATION NUMBER: <u>G4SD0223</u>	DATE (MM/DD/YY): <u>12/27/22</u>	RECEIVING BODY OF WATER: <u>Fishcating Creek</u>
REMARKS:	COUNTY: <u>Glades</u>	LOCATION: <u>Fishcating Creek @ Picnic Lake</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>5</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	<u>5</u> 4 3 2 1
Substrate Availability <u>18</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>13</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 spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>16</u> ----- Primary Score <u>52</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 or straightening 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>17</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 woody 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 woody root zone with raw, eroded areas.
Right Bank <u>9</u> Left Bank <u>9</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>15</u> Left Bank <u>10</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>71</u>	10 9	8 7 6	5 4	3 2 1

123

TOTAL SCORE

Date: <u>12/27/22</u>	Analyst: <u>William Miller</u>	Signature: <u>[Signature]</u>
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DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

e: <u>Washing Creek @ Picnic Lake</u>					County: <u>Glades</u>		Date: <u>12/27/22</u>		Investigators: <u>[Signature]</u>	
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	X			60	1	N	Y		
	2					2	X			
	3					3				
	4					4				
	5			0		5			0	
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N	Y		70	1	N	Y		
	2	X				2	X			
	3					3				
	4			0		4			0	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N	Y		80	1	N	Y		
	2	X				2	X			
	3					3				
	4			0		4			0	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N	Y		90	1	N	Y		
	2	X				2	X			
	3					3				
	4			0		4			0	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N	Y		100	1	N	Y		
	2	X				2	X			
	3					3				
	4			0		4			0	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	Y		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	X								
	3									
	4									
	5			0						
	6									
	7									
	8									
	9									

STORET Station Number:
G4SD0223

Secchi depth 0.4
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 ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☐
Water sample ☒
RQ- 2022-12-05-35

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

RPS ID: 10035

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Shoal Creek @ Picnic Lake</u>					County: <u>Glades</u>		Date: <u>12/27/22</u>		Investigators: <u>Gary Snorek</u> <u>William Miller</u>		
Transect (m)					Transect (m)					STORET Station Number: <u>G4SD0223</u>	
Point 1=right 9=left					Point 1=right 9=left						
Algal Thickness Rank (N-6, X)					Algal Thickness Rank (N-6, X)						
Estimated					Estimated						
Canopy Cover					Canopy Cover						

0	1	↑	↑		60	1	↑	↑	
	2	↑	↑			2	↑	↑	
	3	↑	↑			3	↑	↑	
	4	↑	↑			4	↑	↑	
	5	↑	↑			5	↑	↑	
	6	↑	↑			6	↑	↑	
	7	↑	↑			7	↑	↑	
	8	↑	↑			8	↑	↑	
	9	↑	↑			9	↑	↑	
10	1	↑	↑		70	1	↑	↑	
	2	↑	↑			2	↑	↑	
	3	↑	↑			3	↑	↑	
	4	↑	↑			4	↑	↑	
	5	↑	↑			5	↑	↑	
	6	↑	↑			6	↑	↑	
	7	↑	↑			7	↑	↑	
	8	↑	↑			8	↑	↑	
	9	↑	↑			9	↑	↑	
20	1	↑	↑		80	1	↑	↑	
	2	↑	↑			2	↑	↑	
	3	↑	↑			3	↑	↑	
	4	↑	↑			4	↑	↑	
	5	↑	↑			5	↑	↑	
	6	↑	↑			6	↑	↑	
	7	↑	↑			7	↑	↑	
	8	↑	↑			8	↑	↑	
	9	↑	↑			9	↑	↑	
30	1	↑	↑		90	1	↑	↑	
	2	↑	↑			2	↑	↑	
	3	↑	↑			3	↑	↑	
	4	↑	↑			4	↑	↑	
	5	↑	↑			5	↑	↑	
	6	↑	↑			6	↑	↑	
	7	↑	↑			7	↑	↑	
	8	↑	↑			8	↑	↑	
	9	↑	↑			9	↑	↑	
40	1	↑	↑		100	1	↑	↑	
	2	↑	↑			2	↑	↑	
	3	↑	↑			3	↑	↑	
	4	↑	↑			4	↑	↑	
	5	↑	↑			5	↑	↑	
	6	↑	↑			6	↑	↑	
	7	↑	↑			7	↑	↑	
	8	↑	↑			8	↑	↑	
	9	↑	↑			9	↑	↑	
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	2	↑	↑						
	3	↑	↑						
	4	↑	↑						
	5	↑	↑						
	6	↑	↑						
	7	↑	↑						
	8	↑	↑						
	9	↑	↑						

Secchi depth	
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	
Linear Veg Survey	✓
Habitat Assessment	✓
SCI/Biorecon	
Water sample	✓
RQ- 2022-12-05-35	

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

RPS ID 10035

Corrected RPS
Survey in
field sheet
packet

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

Date: 12/29/22

County: Glades

Storet Number: 64SD0223

Analyst: Gary Snorek

Signature: Greg Sord

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1m² 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]