

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name:	SILVER RIVER 06 MILES UPSTREAM OF BOAT CANAL				Sample Date:	5/8/2023	
WIN / Field ID:	G1CE0059	ORG ID:	21FLCEN	ENR:	-		
County:	MARION	WBID:	2772D	STREAM			
Receiving Body of Water:	Ocklawaha River				RQ-	2023-04-17-21	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Matt Bearden		x		x	x
Katie March		x		x	x
Leif Boman		x		x	x
Jessie Atchison	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot# 2298556		Filter Lot# 17769663	
Secchi Equipment ID:		Light	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
Depth Measured With		Secchi	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Shrimp Trap
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 (PPT _h)
EST	1308	7.5	0.3	6.48	76.6	23.6	7.42	7.5	474.9	0.23
	1316		7	6.55	77.4	23.6	7.43	VOB (s)	474.9	0.23

Biological Samples Collected: HA LVS RPS Algal ID SCI

SBIO Visit ID: 86762 HA ID: RPS ID: 10104 Macrophyte ID: 12437 LIMS Sample ID Entered Into The Macrophyte Module: 2407686

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
	Type	Lot#	Expiration Date	pH Check			
Microbiology	E. coli			ICE			
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE			
Nutrients	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#:2298556; Filter Lot#:17769663		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	SA3013020	1/25/24	H2SO4 pH<2	
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	9/01/23
Organics (LC)	W-E8321-DI	W-E8321-MS		Ice			
Macroinvertebrates	MI-FW-QLDC			Formalin	8.280122		
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise		
Molecular							
Periphyton	Algal ID			Ice			
Phytoplankton							
BOD							
DOC					SyringeLot#	FilterLot#	
Other(s)							
Field Comments:	85 and sunny / SCI Collection Time: 1308 / Algal ID Collection Time: 1321						
Comments on COC:							
Relinquish Date:	05/08/2023	Signature:					

LIMS EVENT ID: CEN-DIST-2023-05-09-01

WIN Import ID: 41939

Enter Field Parameters, Verify Station ID in LIMS DMT: KWM 5/23/23

QC Station ID, Field Parameters in LIMS DMT: VLS 5/26/23

Save Field Sheets on Network: KWM 8/3/23 (Initials/Date)

Migrate Data to WIN: KWM 8/3/23 (Initials/Date)

SC1 site

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

SAMPLING AGENCY:		STORET STATION NUMBER: <u>GICE0059</u>	DATE (MM/DD/YY): <u>5/8/23</u>	RECEIVING BODY OF WATER:
REMARKS:	COUNTY:	LOCATION:	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>10</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>20</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>19</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>13</u> Primary Score <u>63</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>20</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>10</u> Left Bank <u>10</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>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>10</u> Left Bank <u>10</u> Secondary Score <u>80</u>	10 9	8 7 6	5 4	3 2 1

142 143 **TOTAL SCORE**

Date: <u>5/8/23</u>	Analyst: <u>Katie March</u>	Signature: <u>KMarch</u>
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DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID _____ ORG ID _____ LATITUDE _____
 COUNTY _____ STORET # G1CE0059 LONGITUDE _____
 DATE 5/8/23 TIME _____ SAMPLING AGENCY _____
 SITE NAME _____
 FIELD ID/NAME Silver River RECEIVING BODY OF WATER Ocklawaha River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>100</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential _____ 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) Depth (m)/Velocity (m/sec) Trans _____ m/s <u>6.3</u> m/s _____ m/s _____ m deep <u>7.5</u> m deep _____ m deep				
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) _____				
High Water Mark: <u>1.0</u> + <u>7.5</u> = <u>8.5</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><u>7</u></td> <td></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>2</u></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><u>7</u></td> <td></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td><u>2</u></td> <td></td> <td></td> </tr> <tr> <td>Sand.....</td> <td><u>3</u></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> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	<u>7</u>			Undercut Banks / Roots	<u>2</u>			Leaf Packs or Mat				Aquatic Vegetation	<u>7</u>			Rock or Shell Rubble..	<u>2</u>			Sand.....	<u>3</u>			Mud / Muck / Silt				Other				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. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (F)</th> </tr> </thead> <tbody> <tr> <td>Top:</td> <td><u>0.3</u></td> <td><u>23.6</u></td> <td><u>7.42</u></td> <td><u>6.48</u></td> <td><u>76.6</u></td> <td><u>474.9</u></td> <td><u>0.23</u></td> <td></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VO</td> </tr> <tr> <td>Bottom</td> <td><u>7</u></td> <td><u>23.6</u></td> <td><u>7.43</u></td> <td><u>6.55</u></td> <td><u>77.4</u></td> <td><u>474.9</u></td> <td><u>0.23</u></td> <td>TOTAL DEF</td> </tr> </tbody> </table> Meter ID: _____				Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (F)	Top:	<u>0.3</u>	<u>23.6</u>	<u>7.42</u>	<u>6.48</u>	<u>76.6</u>	<u>474.9</u>	<u>0.23</u>		Mid:								☒ VO	Bottom	<u>7</u>	<u>23.6</u>	<u>7.43</u>	<u>6.55</u>	<u>77.4</u>	<u>474.9</u>	<u>0.23</u>	TOTAL DEF
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SAMPLING TEAM: K. Marsh, M. Bearden, L. Boman, V. Atkinson SIGNATURE: K. Marsh DATE: 5/8/23

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

Waterbody: Silver River (SCI)	Date: 5/8/23	County: Marion	Storet Number: GICE0139
Analyst: Katie March	Signature: K March		

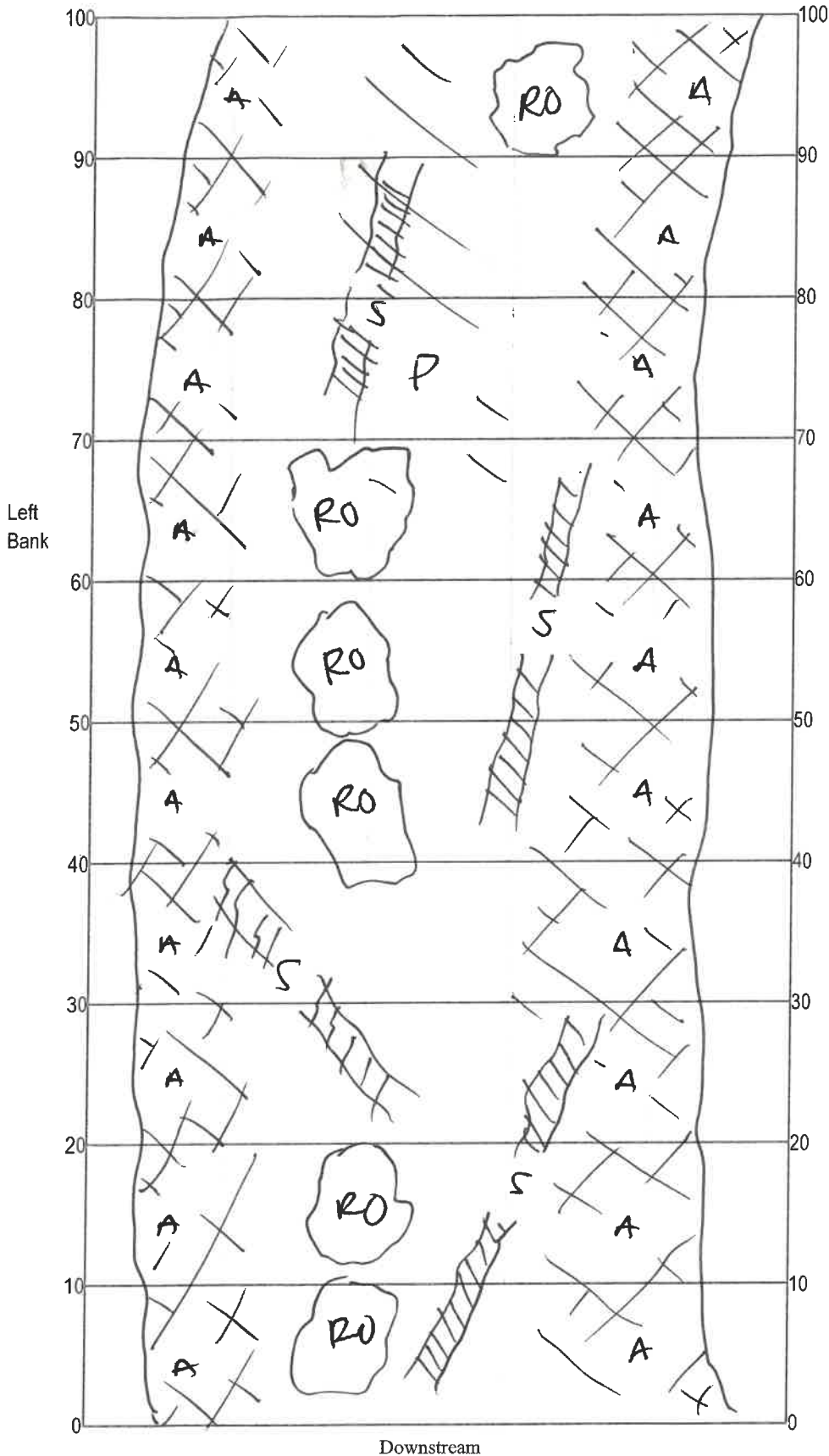
Comments:

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.

Places for additional taxa names:		Meter Mark										Specimen collected (check)	Meter Mark										Specimen collected (check)	
HERBACEOUS SPECIES		0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100		HERBACEOUS SPECIES		0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80		80-90
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													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		✓									
Diodia virginiana													Potamogeton illinoensis											
Eichhornia crassipes													Ruellia simplex											
Eleocharis (wispy viviparous)													Sacciolepis striata											
Hydrilla verticillata		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Sagittaria kurziana		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydrocotyle		✓									✓		Sagittaria lancifolia											
Hygrophila polysperma													Sagittaria latifolia											
Hymenocallis													Salvinia minima											
Lachnanthes caroliniana													Samolus parviflora											
Landoltia punctata													Saururus cernuus											
Lemna													Sparganium americanum											
Limnophila sessiflora													Typha		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ludwigia leptocarpa													Vallisneria americana		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ludwigia palustris													Zizania aquatica											
Ludwigia peruviana													Lobelia		✓									
Ludwigia repens													Nasturtium											

sci site

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



Location: _____

Date: Silver River

Sampler: _____

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

☒ S	Snags	_____
☒ R	Roots/undercut banks	_____
☐	Leaf Packs (or mats)	_____
☒ A	Aquatic Macrophytes	_____
☒ RO		_____
☐		_____
☐	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:

most rocks turned out to be pipe clay upon further investigation / sweeping

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Silver River (SCI)</u>					County:		Date: <u>5/8/23</u>		Investigators: <u>Katie March</u>	
					STORET Station Number: <u>614E0059</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	2			60	1	2			
	2	2				2	2			
	3	2	✓			3	2	✓		
	4	2	✓	0		4	2	✓		
	5	2	✓			5	2	✓	18	
	6	2	✓			6	2	✓		
	7	2	✓			7	2	✓		
	8	2				8	2			
	9	2				9	2			
10	1	2			70	1	2			
	2	2				2	2			
	3	2	✓			3	2	✓		
	4	2	✓	0		4	2	✓		
	5	2	✓			5	2	✓		
	6	2	✓			6	2	✓		
	7	2	✓			7	2	✓		
	8	2				8	2			
	9	2				9	2			
20	1	2	X		80	1	2			
	2	2				2	2			
	3	2				3	2	✓		
	4	2	✓	0		4	2	✓		
	5	2	✓			5	2	✓	20	
	6	2	✓			6	2	✓		
	7	2	✓			7	2	✓		
	8	2				8	2			
	9	2				9	2			
30	1	2			90	1	2			
	2	2				2	2			
	3	2	✓			3	2	✓		
	4	2	✓	18		4	2	✓		
	5	2	✓			5	2	✓	0	
	6	2	✓			6	2	✓		
	7	2	✓			7	2	✓		
	8	2				8	2			
	9	2				9	2			
40	1	2			100	1	2			
	2	2				2	2			
	3	2	✓			3	2	✓		
	4	2	✓	14		4	2	✓	0	
	5	2	✓			5	2	✓		
	6	2	✓			6	2	✓		
	7	2	✓			7	2	✓		
	8	2				8	2			
	9	2				9	2			
50	1	2			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	2								
	3	2	✓							
	4	2	✓	0						
	5	2	✓							
	6	2	✓							
	7	2	✓							
	8	2								
	9	2								

Secchi depth 7.5
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 ✓
Habitat Assessment ✓
SCI/Biorecon ✓
Water sample ✓
RQ- 2023-04-17-21

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

Algae either absent or very long