



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Sevenmile Creek upstream of Alderbrook Blvd.

Date: 02/17/2020
(mm/dd/yyyy)

WIN/ Field ID: G4NW0345

WBID: 10G

Latitude: 30.666666
(Decimal Degrees)

County: Santa Rosa

ORG ID: 21FLPNS

Longitude: 87.216510
(Decimal Degrees)

Receiving Body of Water: Escambia River

RQ-2020- 02-10-41

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
M. King		X	X	X	X
H. Schmitt	X		X		

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

Water Level: Dry/ Pooled/ Low/ <u>Normal</u> / High/ Flooded		Meter ID# 154179	
Photos: <u>Yes</u> / No	Flow: No Flow/ <u>Flowing</u> / NA	Tide: Rising/ Falling/ Slack/ <u>NA</u>	Tide Times: High Low
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:			
SBIO ID Numbers:	SBIO-ID: 80693	HA-ID: 16520	RPS-ID: 9540
Macrophyte-ID:		LIMS#:	
Notes:			

Duplicate Sample

Time Zone: EST CEN	Time:	Field ID:	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone: EST CEN	Time:	Field ID:	(Blank Type_DDMYYYY)
DI Source:		Location:	
☐ Field Blank	☐ Equipment Blank	☐ Field Cleaned Equipment Blank	Equipment ID:

Signature: H. Schmitt Date: 02/17/2020

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)

Scan/Save Field Sheets FB, 02/17/2020 Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2020- 02-10-48
Customer: NWRoc
Project ID: SMP

Collected By: M King
Field Report Prepared By: H Schmitz
Sampling Agency: NWRoc

Field/WIN ID Location: Sevenmile Creek upstream of Alderbrook Blvd.							Comments:				
Matrix: ☒ Fresh / ☐ Marine							(Check one) ☒ GRAB ☐ COMPOSITE				
Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (umhos/cm)	Salinity (PPT)	
2/14/20	1230 EST / ☒ CST	8.52	93.0	19.9	5.27	0.25	0.5 ☒ VOB (S)	0.5	55.4	0.02	
Cental Lab please use top row for login purposes											
EST / CST											
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group	
Preserved Nutrients (P-500ML)		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	A	
		Lot #	SA9129100		Exp:		05/08/20				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A	
		Lot #	NA9189080		Exp:		07/08/20				
Filtered Nutrients (P125ML)		☐ W-PO4-F ☐ Field Filtered 0.45 um Filter				☐ Ice			1	A	
		Filter Lot #	16953247		Exp:						
		Syringe Lot #	902 9988		Exp:						
Chlorophyll (BP-1L)		☒ CHL SUITE-W				☒ Ice			1	A	
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CHC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS				☒ Ice			1	A	
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / ☐ W-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY				☐ Ice					
Macroinvertebrates (PJ-2L)		☒ MI-FW-QLDC				☒ Formalin			2	B	
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice					
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice					
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice					
		☐ PCR-GULL2 ☐ PCR-GFD ☐									
Tracers (BG-500ML)		☒ W-E8321-DI ☒ W-E8321-MS				☒ Ice			1	A	
Pesticides (BG-500ML) (BG-1L)		☐ W-E8321-DI ☐ WE8321-MS ☒ W-PSNP-TQ ☐ W-CT-CL-R				☒ Ice			2	A	
		☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				☐ Ice					
Relinquished By:		Date/Time		Shipping Method		Number of Coolers Shipped:		Received By:		Date/Time:	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Email Submittal form to : lab.receiving@floridadep.gov.

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

SAMPLE ID 80693 ORG ID 21TLPNS LATITUDE 30.66706
 COUNTY Santa Rosa STORET # G4NW0345 LONGITUDE 87.21593
 DATE 2/12/20 TIME 1230 SAMPLING AGENCY FDEP
 SITE NAME SEVEN MILE CREEK upstream of alderbrook BLVD
 FIELD ID/NAME G4NW0345 RECEIVING BODY OF WATER Escambia River

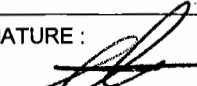
RIPARIAN ZONE / STREAM FEATURES

WBID 10G

RQ-2020-02-10-41

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐							Landscape Development Intensity Index (LDI) <u>N/A</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>4</u> m wide
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>718</u> Right Bank: <u>718</u>				Hydrologic Modification Score (per FT 3101) <u>1-2</u>		<u>0.37</u> m/s <u>0.33</u> m/s <u>0.33</u> m/s	
High Water Mark: <u>1.5</u> + <u>0.5</u> = <u>2.0</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		<u>0.3</u> m deep <u>0.5</u> m deep <u>0.4</u> m deep	
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

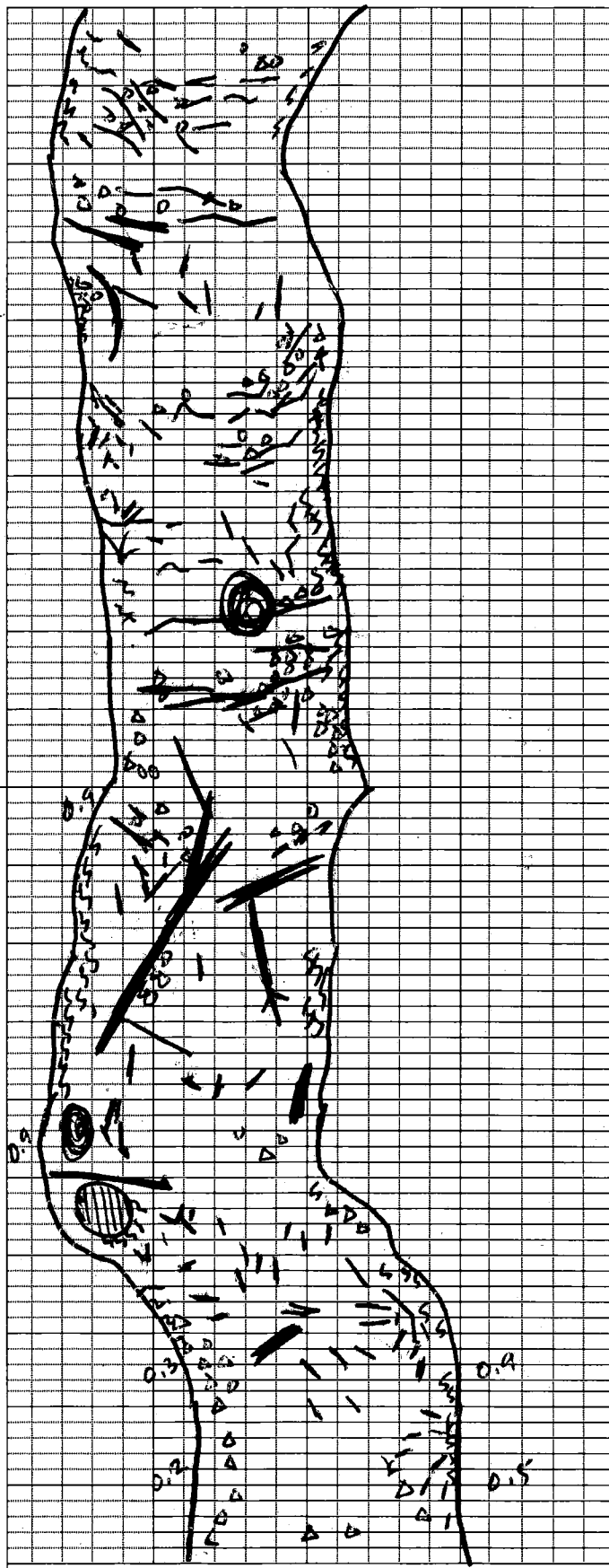
Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):			Smothering of Substrates Sand Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐																																		
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY <table border="1"> <thead> <tr> <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: <u>0.25</u></td> <td><u>19.9</u></td> <td><u>5.27</u></td> <td><u>8.52</u></td> <td><u>93.0</u></td> <td><u>55.4</u></td> <td><u>0.02</u></td> <td><u>0.5</u></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom: <u>0.5</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top: <u>0.25</u>	<u>19.9</u>	<u>5.27</u>	<u>8.52</u>	<u>93.0</u>	<u>55.4</u>	<u>0.02</u>	<u>0.5</u>	Mid:							☒ VOB	Bottom: <u>0.5</u>							
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Bottom: <u>0.5</u>																																								
Woody Debris (Snags) <u>18</u> <u>5</u> Undercut Banks / Roots <u>8</u> <u>5</u> Leaf Packs or Mat <u>5</u> <u>5</u> Aquatic Vegetation Rock or Shell Rubble..... Sand..... <u>67</u> <u>3</u> Mud / Muck / Silt Other <u>gravel</u> <u>1</u> <u>2</u> Other			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:			Color Tannic ☒ Green (Algae) ☐ Clear ☒ Other (Specify) ☐			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐																																		
ABUNDANCE <table border="1"> <thead> <tr> <th></th> <th>Not Obs.</th> <th>Rare</th> <th>Common</th> <th>Abundant</th> </tr> </thead> <tbody> <tr> <td>Periphyton:</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Fish:</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> <tr> <td>Aquatic Plants:</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Iron/Sulfur Bacteria:</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>				Not Obs.	Rare	Common	Abundant	Periphyton:	☐	☒	☐	☐	Fish:	☐	☐	☒	☐	Aquatic Plants:	☐	☒	☐	☐	Iron/Sulfur Bacteria:	☒	☐	☐	☐	System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐			AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.									
	Not Obs.	Rare	Common	Abundant																																				
Periphyton:	☐	☒	☐	☐																																				
Fish:	☐	☐	☒	☐																																				
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Iron/Sulfur Bacteria:	☒	☐	☐	☐																																				
SAMPLING TEAM <u>MIKE KING / FRANK BUTERA / HEATHER SCHMUKI</u>			SIGNATURE: 			DATE: <u>2/12/2020</u>																																		

Stream/River Habitat Sketch Sheet, Form FD 9000-4 (June 1, 2001)

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

30.66706 87.21573

100
BF
%S
Vg
90
BF
%S
Vg
80
BF
%S
Vg
70
BF
%S
Vg
60
BF
%S
Vg
50
BF
%S
Vg
40
BF
%S
Vg
30
BF
%S
Vg
20
BF
%S
Vg
10
BF
%S
Vg



Snag	12
Root	4
LP	2
Plant	
OTR	
Snag	10
Root	1
LP	2
Plant	
OTR	
Snag	5
Root	3
LP	0.9
Plant	
OTR	
Snag	9
Root	4
LP	1
Plant	0.1
OTR	
Snag	8
Root	4
LP	5
Plant	
OTR	
Snag	12
Root	4
LP	0.5
Plant	
OTR	
Snag	3
Root	8
LP	0.9
Plant	
OTR	
Snag	6
Root	2
LP	1
Plant	
OTR	
Snag	4
Root	3
LP	3
Plant	0.1
OTR	
Snag	1
Root	0.3
LP	4
Plant	0.1
OTR	

Substrates: Code key, draw proportionate habitat abundance.



Snags

74/400 18.5



Roots/undercut banks

33.3 8.32



Leaf Packs (or mats)

20.3 5.07



Macrophytes



pools

111

Velocity:

Note where velocity measures were taken. 40 m

Habitat Smothering:

Note areas (on map) where sand or silt is something 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.

Average width 4 m

Average depth 0.5 m

WQ & chemistry taken @ 0 m

Storet. G4NW0345

Field ID. G4NW0345

Date: 2/12/2020

Sampled By. MK/FB/HS

Plants observed/other notes:

Left Bank

4m Downstream

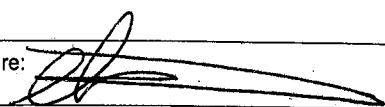
30.66667
87.214643

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

SAMPLING AGENCY: 21FLPNS		STORET STATION NUMBER: G4NW0345	DATE (MM/DD/YY): 02/12/2020	RECEIVING BODY OF WATER: ESCAMBIA RIVER
REMARKS: WBID 106	COUNTY: Santa Rosa	Seven Mile Creek		FIELD ID/NAME: G4NW0345

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>14</u>	20 19 18 17 16	15 <u>14</u> 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>18</u>	Greater than 30% major productive habitat present at site 20 19 <u>18</u> 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>20</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <u>20</u> 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>14</u> Primary Score <u>66</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 <u>14</u> 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>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>7</u> Left Bank <u>6</u>	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. 10 9*	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>9</u> Left Bank <u>9</u> Secondary Score <u>71</u>	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. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

137 TOTAL SCORE

Date: <u>2/12/20</u>	Analyst: <u>MIKE KING</u>	Signature: 
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SBIO ID: B0693 HA ID: 16520

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Sevenmile Creek</u>					County: <u>Santa Rosa</u>		Date: <u>2/12/2020</u>		Investigators: <u>Mike King</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	N	N		60	1	N	N		
	2					2				
	3					3				
	4					4				
	5			40		5			40	
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			30		5			40	
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			40		5			72	
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			40		5			40	
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			60		5			72	
	6					6				
	7					7				
	8					8				
	9					9				
50	1	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. 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			40						
	6									
	7									
	8									
	9									

STORET Station Number: G4NW045
0345

Secchi depth 0.5
Estimated? Y

points ranked 4-6 50
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	✓
SCUBA Biorecon	✓
Water sample	✓

RE-2019-02-11-28
2020-02-10-41

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

SBIO Visit ID: 80693
RPS ID 9540

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

Storet Number: 64NW0345

Signature:

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]

VPDB ID	N/A
---------	-----

Revision Date: March 1, 2014