

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes / ☐ No

WIN Station Name: Reedy Lake Basin @ Lake Reedy Blvd- Bridge

Date: 4/12/2022

WIN/Field ID: G4CE0224

WBID: 1685G

ENR: -

Latitude: 27.72

County: POLK

Org ID: 21FLCEN

Longitude: -81.48

Receiving Body of Water: Kissimmee River

RQ- 2022-04-11-35

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Terry Riordan		☒			
☒	Victoria Schwartz	☒	☒	☒	☒	☒
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Light	

Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded		Meter ID# SHRIMP TRAP	
Photos: YES	Flow: FLOW	Tide:	Tide Times: High: Low:
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:			
SBIO ID Numbers: SBIO 84082 RPS 9920 MACROPHYTE 12129			LIMS 2318810
Notes: SUNNY. VERY GREEN WATER / SCI COLLECTION TIME: 1355			

Duplicate Sample	
Time Zone: EST	Time: Field ID: (WIN ID_DUP)

WIN DMT Activity ID:	
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Blank	
Time Zone: Time: Field ID: (Blank Type_DDMMYYYY)	
DI Source: Location:	
DI Type: Equipment ID:	

DI Container (Name/ID):	DI Container Type:
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LIMS EVENT ID: CEN-DIST-2022-04-13-02

WIN Import ID: 33442

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 5/2/22

QC Station ID, Field Parameters In LIMS DMT: EB 6/2/22

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets KWM 6/9/22

Migrate Data to WIN: KWM 6/9/22

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



RQ-2022-04-11-35
Customer: CEN-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Terry Riordan, Victoria Schwartz
Field Report Prepared By: Terry Riordan
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G4CE0224 Location: Reedy Lake Basin @ Lake Reedy Blvd- Bridge						Comments:				
Matrix: Fresh						(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 (µmhos/cm)	Salinity (PPT)
4/12/2022	1315 EST	10.08	119.7	24	8.98	0.25	0.3 ☐ VOB (S)	0.5	245.7	0.12
	EST						Central Lab please use top row for login purposes			
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 Lot # SA1105060 Exp: 4/30/22				☒ Ice ☒ H2SO4* Lot # 1335260		☒ <2	1	A
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # NA1105100 Exp: 6/7/22				☒ Ice ☒ HNO3* Lot # 1335260		☒ <2	1	A
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 17413308				☒ Ice Syringe Lot # 1335260			1	A
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice				
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TPS				☒ 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)		☒ Coli ☐ Coli ☐ Enterococci ☐ Contract Lab				☒ Ice			1	A
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.		
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI ☒ WE8321-MS ☒ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-TR-SQ-R ☐ W-PCB-TQ-R				☒ Ice		MCAA Lot#	5	A
Phytoplankton/Periphyton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice				
Name: Terry Riordan Victoria Schwartz						Signature:			Date: 04/19/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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

SAMPLE ID _____	ORG ID _____	LATITUDE <u>27.72</u>
COUNTY <u>DOK</u>	STORET# <u>G4CE0224</u>	LONGITUDE <u>-81.48</u>
DATE <u>4/12/22</u>	TIME <u>13:15</u>	SAMPLING AGENCY <u>21FCEN</u>
SITE NAME <u>G4CE0224</u>		
FIELD ID/NAME <u>Reedy Lake Basin @ Lake Reedy Blvd - bridge</u>		RECEIVING BODY OF WATER <u>Kissimmee River</u>

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>40</u> Silviculture _____ Field/Pasture _____ Agricultural <u>50</u> Residential <u>10</u> 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) Transect <u>4 sec</u> <u>3.5 sec</u> <u>10</u> m wide <u>0.25</u> m/s <u>0.28</u> m/s <u>0.25</u> m/s				
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>6</u> Right Bank: <u>12-18</u>		Hydrologic Modification Score (per FT 3101) _____		High Water Mark: <u>0.3</u> + <u>0.5</u> = <u>0.8</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 <u>NA</u> ☐ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors <u>NA</u> ☐ 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" 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><u>0.25</u></td> <td><u>24.0</u></td> <td><u>8.98</u></td> <td><u>10.08</u></td> <td><u>119.7</u></td> <td><u>245.7</u></td> <td><u>0.12</u></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>					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>24.0</u>	<u>8.98</u>	<u>10.08</u>	<u>119.7</u>	<u>245.7</u>	<u>0.12</u>	<u>0.3</u>	Mid:								☐ VOB	Bottom:												
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		Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SA1105060</u> Exp: <u>4/30/22</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 ☒																																									
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☐ ☒ ☐ Fish: ☐ ☒ ☒ ☐ Aquatic Plants: ☐ ☐ ☐ ☒ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐		System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐																																											
AMBIENT FIELD CONDITIONS / NOTES: <u>Sunny water very green w/ high DO</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																													
SAMPLING TEAM <u>Terry Riordan + Victoria Schwartz</u>			SIGNATURE: <u>[Signature]</u>		DATE: <u>4/12/22</u>																																								

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

SAMPLING AGENCY: <u>21 FLOW</u>		STORED STATION NUMBER: <u>G4CED0224</u>	DATE (MM/DD/YY): <u>4/12/22</u>	RECEIVING BODY OF WATER: <u>Kissimmee River</u>
REMARKS:	COUNTY: <u>Polk</u>	LOCATION: <u>Reedy Lake Basin</u> <u>(SCI)</u>	FIELD ID/NAME: <u>G4CED0224</u>	

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>75</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>16</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>17</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec max: 3.5 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>8</u> Primary Score <u>46</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>1316</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>87</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>79</u> Left Bank <u>47</u> Secondary Score <u>57</u>	10 9	8 7 6	5 4	3 2 1

103 TOTAL SCORE

Date: <u>4/12/22</u>	Analyst: <u>Victoria Schwartz + Terry Riordan</u>	Signature: <u>[Signature]</u>
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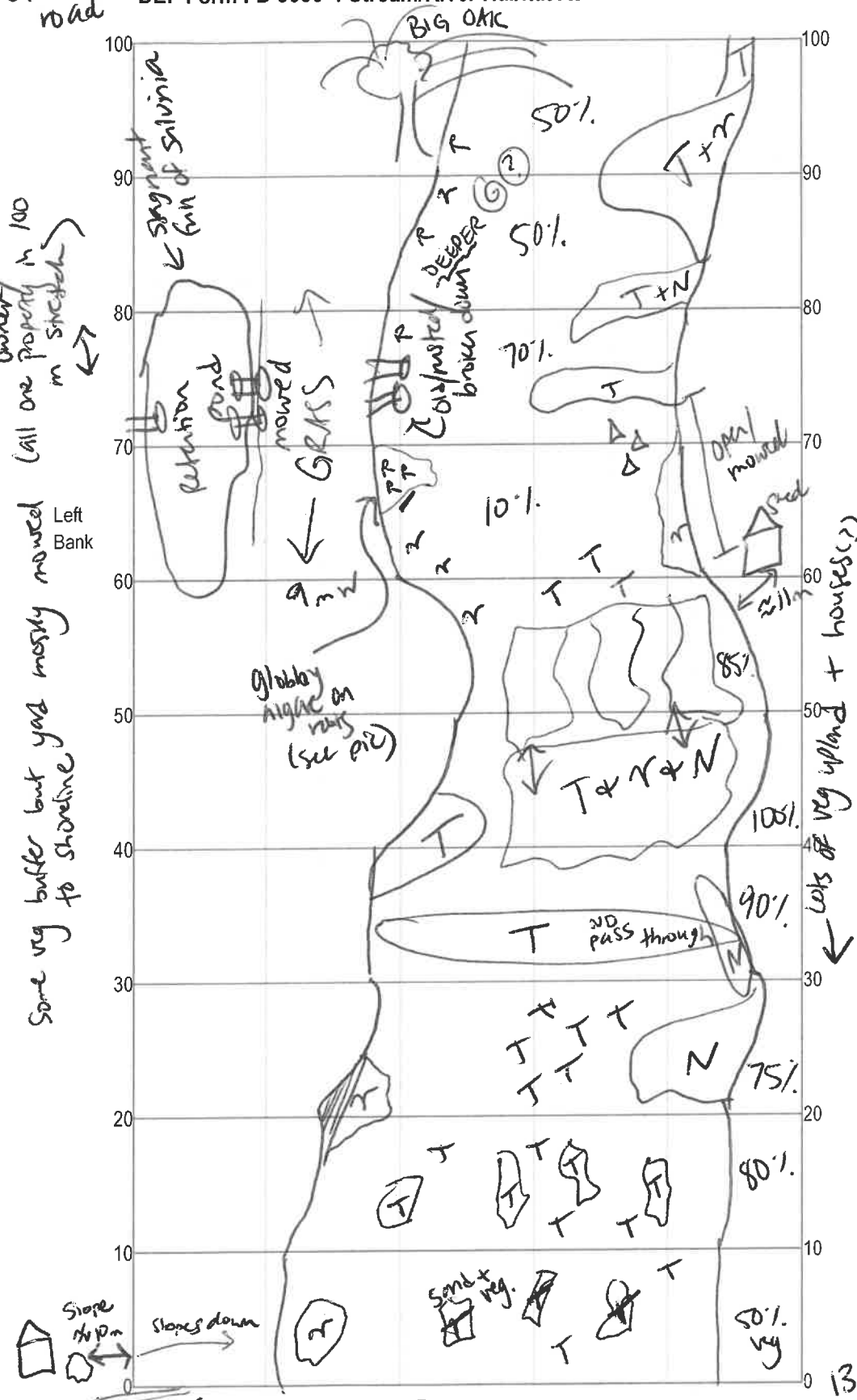
Lake →
Other side of road

ROADS/ BRIDGE

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

Owner/ property in 100 m stretch

Left Bank
Some veg buffer but yard mostly mowed to shoreline



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

Location: Reedy Lake Basin

Date: 4/2/22

Sampler: Victoria Schwartz

100 m: Latitude 27.720316
Longitude -81.477613

0 m: Latitude 27.719466
Longitude -81.477281

Substrates: Code key, draw proportionate habitat abundance. %

	Snags	<u><1</u>
	Roots/undercut banks	<u>1</u>
	Leaf Packs (or mats)	<u>1</u>
	Aquatic Macrophytes	<u> </u>
	<u>Typha veg.</u>	<u>66</u>
	<u>Nuphar veg.</u>	<u> </u>
	Pools	total # observed = <u>1</u> # range expected = <u> </u>

Average width 0.5 m 0.3-0.6
Average depth 0.5 m 9-12

Velocity measured at 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:

- water very green + high DO
- very soft sand
- typha in stream
- Apple Snail eggs shells
- mud/sulfur smells
- many dragonflies
- ~~small~~ small fish
- Some typha on sand
- mud too high to see it
- water currently be it

Revision Date: March 1, 2014

Waterbody: Reed Lake Basin	Date: 4/12/2020	County: Polk	Store Number: 64CE0224
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Analyst: Terry Riordan Signature: [Signature]

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.

62-160.800. F.A.C.

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Reedy County: Polk Date: 4/12/22 Investigators: Terry Riordan/Victoria Schwartz
22 Russett Lake Basin

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				4	2		
	5	2		12		5	2		6
	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				4	2		
	5	2		0		5	2		10
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
20	1	2			80	1	2		
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2		2		5	2		0
	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				4	2		
	5	2		0		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				4	2		
	5	2		0		5	2		0
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
50	1	2				1	2		
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2		0		5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		

STORET Station Number:

WIN GYCE.0224

Secchi depth 0.3
Estimated?

points ranked 4-6 6
total points assessed 99
% points ranked 4-6 6

Check accompanying data collected at same site/date.

Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☒
Water sample ☒

RQ- 2022-04-11-35

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

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%.