



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Tiger Creek 1.45km Downstream Of Lake Kissimmee (3183d) **Date:** 12/8/2020
WIN/Field ID: G4CE0070 **WBID:** 3183D **ENR:** **Latitude:** 27.9272
County: POLK **Org ID:** 21FLCEN **Longitude:** -81.3483
Receiving Body of Water: Kissimmee River **RQ:** 2020-12-07-18

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Natalie Ayala		x		x	x
☒	Victoria Schwartz	x		x		
☐						
☐						

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 81803 VASCULAR 11763 RPS 9648						LIMS 2211776					
Notes:											

Duplicate Sample

Time Zone: EST	Time: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDMMYYYY)
DI Source: N/A		Location: N/A	
DI Type: N/A		Equipment ID: N/A	

LIMS EVENT ID: CEN-DIST-2020-12-09-03 WIN Import ID: 23914
Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 12/11/20 QC Station ID, Field Parameters In LIMS DMT: EB 1/25/21
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets KWM 2/5/21 Migrate Data to WIN: KWM 2/5/21 Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2020-12-07-18

Customer: WQAP

Project ID: SMP

Collected By: Natalie Ayala, Victoria Schwartz

Field Report Prepared By: Natalie Ayala

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4CE0070

Location: Tiger Creek 1.45km Downstream Of Lake Kissimmee (3183d)

Comments:

Matrix: 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 (µmhos/cm)	Salinity (PPTH)
12/8/2020	1400 EST	4.31	44.7	16.8	6.36	0.3	0.5 ☐ VOB (S)	1.7	123.5	0.06

Central Lab please use top row for login purposes

	1406 EST	3.96	40.7	16.6	6.22	1.2			123.2	0.06
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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 # 112544 Exp: 12/20/20	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3* ☐ <2			
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 16930280 Syringe Lot # 9149785	☒ Ice		1	A
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-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			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F 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			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			
		☐ Ice			

Name:
Natalie Ayala
Victoria Schwartz

Signature:

Victoria Schwartz

Date:

12/08/20

*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 21FLCEN LATITUDE 27.9272
 COUNTY POIK STORET # 64CE0070 LONGITUDE -81.3483
 DATE 12/08/20 TIME 1400 SAMPLING AGENCY FDDEP/21FLCEN
 SITE NAME Tiger Creek (WBID: 3R3D) 1.45 km DS of Lake Kissimmee CE-ROC
 FIELD ID/NAME 64CE0070 RECEIVING BODY OF WATER Kissimmee River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐ <u>100</u> ☐ ☐ ☐ ☐ ☐ ☐ ☐							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) <u>35</u> Depth (m)/Velocity (m/sec) <u>0.125</u> <u>8 sec</u> Transect <u>0.5</u> m wide			
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) ☐		m/s ☐ m/s ☐ m/s			
High Water Mark: <u>0</u> + <u>1.7</u> = <u>1.7</u> (m) (above present water level) (present depth) (above bed)			Artificially Impounded ☐ Yes ☒ No		m deep <u>1.7</u> m deep ☐ 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 <u>MA</u> ☐ Absent ☐ Slight ☐ Moderate ☐ Profuse	Sediment Odors <u>MA</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 ☐
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SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon % Coverage ☐ # Times Sampled ☐ PERI # Times Sampled ☐				WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.3</u> <u>16.8</u> <u>6.36</u> <u>4.31</u> <u>44.7</u> <u>123.5</u> <u>0.06</u> <u>0.5</u> Mid: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ VOB ☐ Bottom: <u>1.2</u> <u>16.6</u> <u>6.22</u> <u>3.96</u> <u>40.7</u> <u>123.2</u> <u>0.06</u> <u>1.7</u> Meter ID: <u>Shrimp Trap</u>							
Woody Debris (Snags) ☐ ☐ ☐ Undercut Banks / Roots ☐ ☐ ☐ Leaf Packs or Mat ☐ ☐ ☐ Aquatic Vegetation ☐ ☐ ☐ Rock or Shell Rubble.. ☐ ☐ ☐ Sand..... ☐ ☐ ☐ Mud / Muck / Silt ☐ ☐ ☐ Other ☐ ☐ ☐ 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: <u>SA 112544</u> Exp: <u>12/20/20</u>				Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐				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 / cool temps</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.											
SAMPLING TEAM <u>Natalie Ayala / Victoria Schwartz</u>						SIGNATURE: <u>Natalie Ayala</u>			DATE: <u>12/8/20</u>		

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

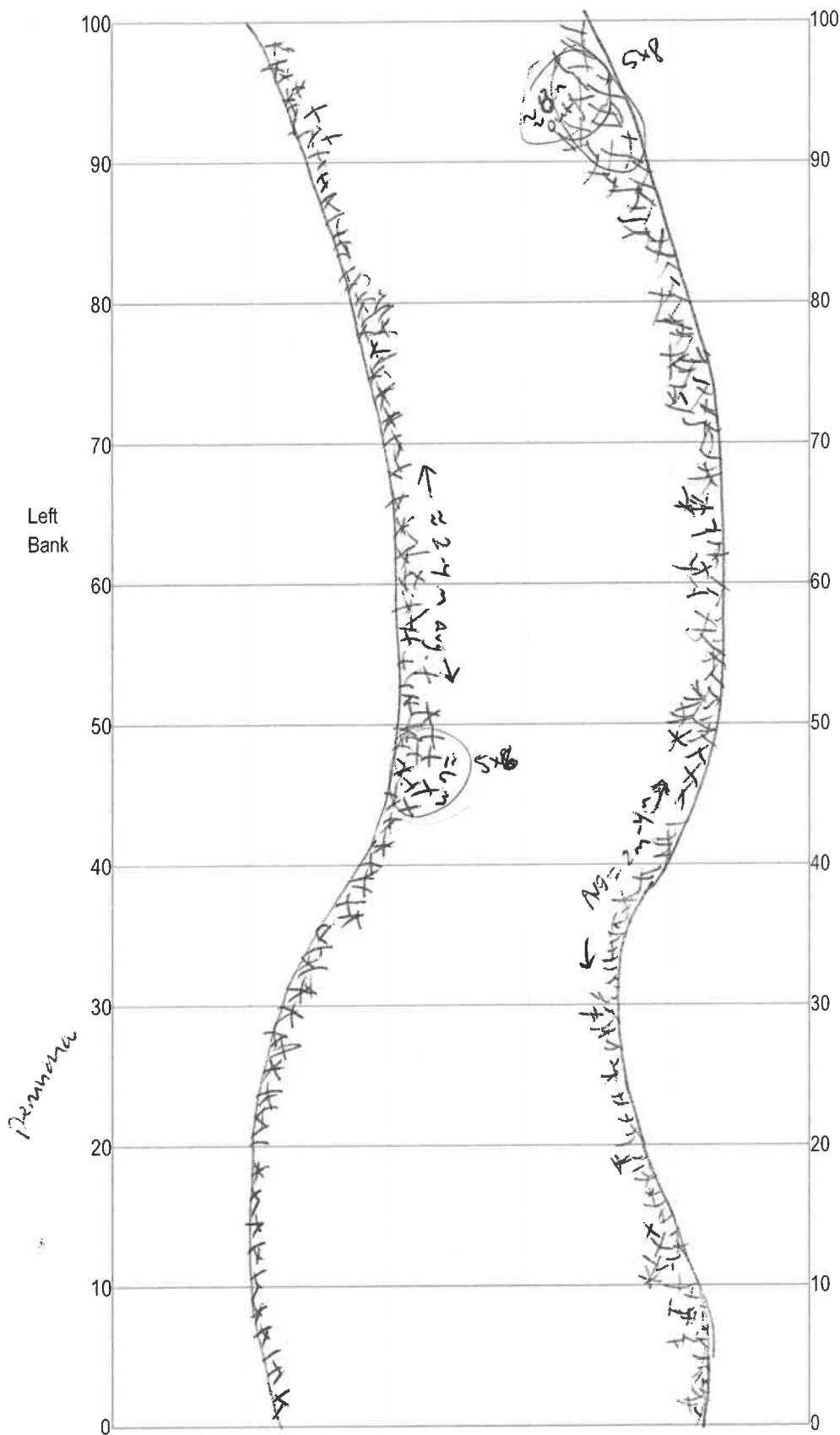
SAMPLING AGENCY: <u>21 FL CEN</u>		STORET STATION NUMBER:	DATE (MM/DD/YY): <u>12/08/20</u>	RECEIVING BODY OF WATER: <u>Kissimmee River</u>
REMARKS:	COUNTY: <u>Polk</u>	LOCATION: <u>Tiger Creek</u>	FIELD ID/NAME: <u>64CE 0070</u> WBID: <u>3183D</u>	

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>2</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 <u>2</u> 1
Substrate Availability <u>12</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent <u>18.3</u> 15 14 13 <u>12</u> 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>12</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 <u>0.125</u> 0.25 0.21 0.17 0.13 >0.1 15 14 13 <u>12</u> 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>17</u> Primary Score <u>43</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 <u>17</u> 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>	<u>20</u> 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. <u>10</u> 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 woody root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m Right Bank <u>10</u> Left Bank <u>10</u> <u>10</u> 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	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. Right Bank <u>10</u> Left Bank <u>3</u> Secondary Score <u>55</u> <u>73</u> <u>10</u> 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). <u>3</u> 2 1

98 116 **TOTAL SCORE**

Date: <u>12/8/20</u>	Analyst: <u>Natalie Ayala / Victoria Schwab</u>	Signature: <u>[Signature]</u> <u>[Signature]</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Tiger Creek
 Date: 12/08/20
 Sampler: Natalie Ayala / Victoria Schwartz

100 m: Latitude 27.92734
 Longitude -81.34732
 0 m: Latitude 27.9272
 Longitude -81.3483

Substrates: Code key, draw proportionate habitat abundance. %

☐	Snags	_____
☐	Roots/undercut banks	_____
☐	Leaf Packs (or mats)	_____
☒	Aquatic Macrophytes	<u>18.3</u>
☐	_____	_____
☐	_____	_____
☐	Pools	total # observed = <u>0</u> # range expected = <u>0</u>

Average width 40.35 m (VS)
 Average depth 1.7 m

Velocity measured at 40 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:

- Sampled via boat (gas motor)
- Unknown # of pools
- Invasive veg. found in every section (see WS)

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

62-160.800, F.A.C

Left:
 $95m \times 3m = 285m^2$
 $5m \times 6m = 30m^2$
 $315m^2$

Right:
 $95m \times 3m = 285m^2$
 $5m \times 8m = 40m^2$
 $325m^2$

$\frac{325}{315}$
 $\frac{640m^2}{3500m^2} = 18.3\%$

Revision Date: March 1, 2014

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

Waterbody: Tiger Creek Date: 12/08/20 County: Polk N. Store Number: GLCE0070

Analyst: Natalie Ayala / Victoria Schwartz Signature: [Signature]

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.

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						
<i>Alternanthera philoxeroides</i>		✓	✓		✓		✓			✓		<i>Micranthemum glomeratum</i>																
<i>Bacopa caroliniana</i>												<i>Micranthemum umbrosum</i>																
<i>Bacopa monnieri</i>												<i>Myriophyllum aquaticum</i>																
<i>Bidens mitis</i>												<i>Najas guadelupensis</i>																
<i>Boehmeria cylindrica</i>												<i>Nuphar luteum</i>																
<i>Centella asiatica</i>												<i>Orontium aquaticum</i>																
<i>Ceratophyllum demersum</i>												<i>Panicum hemitomon</i>																
<i>Chara</i>												<i>Panicum repens</i>																
<i>Cicuta maculata</i>												<i>Panicum rigidulum</i>																
<i>Cladium jamaicense</i>												<i>Pistia stratioides</i>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Colocasia esculenta</i>												<i>Polygonum glabra</i>		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Commelina diffusa</i>												<i>Polygonum hydropiperoides</i>																
<i>Commelina virginica</i>												<i>Polygonum punctatum</i>																
<i>Crinum americanum</i>												<i>Pontedaria cordata</i>			✓													
<i>Diodia virginiana</i>												<i>Potamogeton illinoensis</i>																
<i>Eichhornia crassipes</i>												<i>Ruellia simplex</i>																
<i>Eleocharis (wispy viviparous)</i>												<i>Sagittaria striata</i> <i>Hymenachne</i>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Hydrilla verticillata</i>												<i>Sagittaria kurziana</i>																
<i>Hydrocotyle</i>												<i>Sagittaria lancifolia</i>					✓	✓	✓									
<i>Hygrophila polysperma</i>												<i>Sagittaria latifolia</i>																
<i>Hymenocallis</i>												<i>Salvinia minima</i>																
<i>Lachnanthes caroliniana</i>												<i>Samolus parviflora</i>																
<i>Landoltia punctata</i>												<i>Saururus cernuus</i>																
<i>Lemna</i>												<i>Sparganium americanum</i>																
<i>Limnophila sessiflora</i>												<i>Typha</i>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Ludwigia leptocarpa</i>												<i>Vallisneria americana</i>																
<i>Ludwigia palustris</i>												<i>Zizania aquatica</i>																
<i>Ludwigia peruviana</i>																												
<i>Ludwigia repens</i>																												
<i>Luziola fluitans</i>												<i>Polygonum spp. → punctatum</i>		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Ludwigia submersa</i> hexapetala <i>Grandiflora</i>		✓				✓	✓		✓	✓		<i>Scirpus cubensis</i>			✓											✓		
												red leaf grass				✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
												also?																
If no Dominant or Co-Dominant were selected, indicate with "X"												<i>Sagittaria striata</i>														✓		
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																												

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Tiger Creek County: Polk Date: 12/08/20 Investigators: Natalie Ayala / Victoria Schwartz
31830 / 64CE0070

WIND STORE Station Number: 64CE0070

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	✓	0		5	2	✓	0
	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	✓	0
	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	✓	0		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			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	✓						
	5	2	✓	0					
	6	2	✓						
	7	2	✓						
	8	2							
	9	2							

Secchi depth 0.5
 Estimated?

points ranked 4-6 8
 total points assessed 99
 % points ranked 4-6 8.1

Check accompanying data collected at same site/date.
 Algal mat sample
 Linear Veg Survey ☒
 Habitat Assessment ☒
 SCI/Biorecon
 Water sample ☒
 RQ- 2020-12-07-18

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