



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:		OTTER CREEK WASTE PRO TEST SITE BELOW LANDFILL				Sample Date:		4/11/2023	
WIN / Field ID:	G3NW0011	ORG ID:	21FLPNS	ENR:		Latitude:	30.37638		
County:	BAY	WBID:	950	STREAM	3F	Longitude:	-85.9267		
Receiving Body of Water:		East River				RQ-	2023-04-10-38		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera	x		x		
Nathan Mulkey		x		x	

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot# 1005533		Filter Lot# 17460495	
Secchi Equipment ID:		Secchi - 2	
Collection Method			
x	Wading		Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Meter	

Water Level:	Low
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	154179 (ProDSS)
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)
CEN	1125	0.2	0.1	7.85	86	19.7	6.16	0.2	265.2	0.13
								VOB (s)		

Biological Samples Collected:		HA LVS RPS Algal ID SCI	
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	E. coli	Contract Lab	UWF	ICE			
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE			
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE			
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syring Lot#:1005533; Filter Lot#:17460495		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	3013020	01/25/24
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	2230040	09/01/23
Organics (LC)	W-E8321-DI	W-E8321-MS			MCAA***		
Macroinvertebrates	MI-FW-QLDC			Formalin	1234		
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	Algal ID			Ice			
Phytoplankton							
BOD							
DOC							
Other(s)					SyringLot#		FilterLot#
Field Comments: / SCI Collection Time: 1200 / Algal ID Collection Time: 1205							
Comments on COC: Microbiology sample(s) submitted to contract laboratory.							
Relinquish Date:	04/11/2023	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)

Site Name Otter Creek Waste Pro Test Site below Landfill

Date: 04/11/2023

WIN ID G3NW0011

Field ID G3NW0011

Project: SMP / TMDL Studies

Visit ID 86343

RQ: 2023-04-10-38

RPS ID 10076

LIMS ID: 2399763

Macro ID 12416

WBID: 950

HA ID 18187

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO Initial FB, 4/12/23

☒ Date and Initial QA: 5/22/23 SL

☒ HA entered in SBIO Initial FB, 4/12/23

☒ Date and Initial QA: 5/22/23 SL

☒ RPS entered in SBIO Initial FB, 4/13/23

☒ Date and Initial QA: 5/22/23 SL

☒ LVS entered in SBIO Initial FB, 4/13/23

☒ Date and Initial QA: 5/22/23 SL

☐ < 2 m² vegetation

☒ Plants getting verified

Date submitted: 4/13/23

☒ Plants verified

Date returned: 04/18/2023

☒ RPS authorized in SBIO

☒ Date and Initial: 5/22/23 FB

☒ RPS score: 43.71

☒ Macro authorized in SBIO

☒ Date and Initial: 5/22/23 FB

☒ LVS Score: FLEPPC 0%. Avg CofC 6.88

☒ SCI complete: 07/5/2023 P. Jasrotia

SCI Score: 60

☒ Add SBIO-ID, HA-ID, RPS-ID, MACROPHYTE-ID and LIMS# to field sheet in database

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

SAMPLE ID 86343 ORG ID 21FLPNS LATITUDE N: 30.37638
 COUNTY Bay WIN ID/STORET # G3NW0011 LONGITUDE W: 85.9267
 DATE 04/11/2023 TIME 11:25 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Otter Creek Waste Pro Site below landfill RQ- 2023-04-10-38
 FIELD ID/NAME G3NW0011 RECEIVING BODY OF WATER WBID 950 Project: SMP / TMDL studies

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2399763

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ Silviculture ☒ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☒ Industry ☒ Other (Specify) <u>Landfill</u>						Landscape Development Intensity Index (LDI) <u>N/A 1.4</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>58m msk</u> <u>4.5</u> m wide
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>78</u> Right Bank: <u>78</u>			Hydrologic Modification Score (per FT 3101) <u>45-6</u>		.2 m/s .2 m/s .2 m/s	
High Water Mark: <u>0.4</u> + <u>0.9</u> = <u>1.9</u> (m) (above present water level) (present depth) (above bed)			Artificially Impounded ☐ Yes ☒ No		.2 m deep .1 m deep .3 m deep	
Artificially Channelized ☒ No ☒ Some recovery ☐ Mostly recovered, more sinuous ☐ 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 <u>Fe Sulfur</u> <u>Severe</u> ☒ 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 <u>0.18m</u> Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.1</u> <u>19.7</u> <u>6.16</u> <u>7.85</u> <u>86.0</u> <u>265.2</u> <u>0.13</u> <u>0.2</u> Mid: <u></u> <u></u> <u>6.16</u> <u></u> <u></u> <u></u> <u></u> <u></u> Bottom: <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> Meter ID: <u>154179</u> <u>0</u>			
Woody Debris (Snags) <u>2.1</u> <u>7</u> <u></u> Undercut Banks / Roots <u>0.4</u> <u>3</u> <u></u> Leaf Packs or Mat <u>0.2</u> <u>2</u> <u></u> Aquatic Vegetation <u>1.8</u> <u>7</u> <u></u> Rock or Shell Rubble <u></u> <u></u> <u></u> Sand <u>86.9</u> <u>1</u> <u></u> Mud / Muck / Silt <u></u> <u></u> <u></u> Other <u></u> <u></u> <u></u> Other <u></u> <u></u> <u></u>		Water Odors Normal ☐ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☒		Water Surface Oils Normal ☐ Sheen ☒ Globs ☒ Slick ☒ Other ☐ Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐	
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☐ ☐ ☒ Fish: ☐ ☐ ☒ ☒ Aquatic Plants: ☐ ☐ ☐ ☒ Iron/Sulfur Bacteria: ☐ ☐ ☐ ☒		Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____		Algae Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____	
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐		AMBIENT FIELD CONDITIONS / NOTES: <u>Branded channel</u> <u>Severe algae & Fe Sulfur smothering</u> <u>Historic Station 332020126</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.			
SAMPLING TEAM: Frank Butera, Nathan Mulkey		SIGNATURE: <u>Frank Butera</u>		DATE: <u>4/11/2023</u>	

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

Substrates: Code key,
draw proportionate habitat
abundance.

☒	Snags	2.1%
☒	Roots/undercut banks	0.4%
☒	Leaf Packs (or mats)	0.2%
☒	Macrophytes	1.8%
☐		
☐		
☐		
	sand = 86.4%	

Note where velocity measures were taken. 55 m

Note areas (on map) where sand or silt is something substrates, limiting habitability.

Note areas (on map) with
unstable, eroding banks.

Note areas (on map) where natural vegetation is altered or eliminated.

Otter Creek

100 m Long

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
0m width (m)	Root 3.5	+	+
10m width	Leaf 2.0	Slope	Slope
Avg. Depth	Veg 2.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Fe, A, BG		

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
60m width	Root 8.5	+	+
	Leaf 8.2	Slope	Slope
Avg. Depth	Veg -	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	M, Fe, Si		

Station Name

Otter Creek

Storet: G3NW0011

Date 4/11/2023

0 meter (Dec Deg)

30.3754

85.92676

100 meter (Dec Deg)

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
20m width	Root 1.0	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth	Veg 15.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Fe, A, BG		

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
70m width	Root 2.0	-	+
	Leaf 0.2	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Fe		

Water Quality Measured at

10m

Stream Velocity and location.

0.2 m/s 55 meter mark

Number of Pools & Location

62 H/I

High Water:

Silt smothering @

A-B

A-S

Sand Smothering @

0.2

Algae Smothering @

A-B

A-S

Degraded Banks @

Fe/Sulfur Bact. @

A-B

A-S

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
30m width	Root 0.5	+	+
	Leaf 0.5	Slope	Slope
Avg. Depth	Veg 0.5	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, A, Fe, BG, SP		

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 4.0	Bankfull	Bankfull
80m width	Root 2.5	-	+
	Leaf 2.5	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Fe, A, Si, P		

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6.0	Bankfull	Bankfull
40m width	Root 3.0	+	+
	Leaf 2.0	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R			

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
90m width	Root 2.0	-	+
	Leaf	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Fe, A, Si, P		

Total Habitat	Sq. Meters	Percent
Snags	8.2	2.4%
Roots	1.0	0.4%
Leaf	0.8	0.3%
Veg	7.1	1.8%
Rock		
Gravel		
Sand	33.1	86.4%
Other		
Sum 1° Habitat		4.5%

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6.0	Bankfull	Bankfull
50m width	Root 0.3	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R			

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 4.0	Bankfull	Bankfull
100m width	Root 0.5	-	+
	Leaf 0.1	Slope	Slope
Avg. Depth	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R			

Avg. Depth	Max. Depth	Avg. Width
0.4	0.9	3.9

Bank Stability Score. Left Bank 2.7 Right Bank 2.9 Category Left Bk Optimal Right Bk Optimal
Add all plus signs (Max. 30 possible) and Divide by 10. Scoring. Poor: 0.0 - 0.9 pts. Marginal: 1.0 - 1.9 pts. Suboptimal: 2.0 - 2.9 Optimal: 2.1 +

Notes: Braided, < 5.0% shallow pool. At least 60% of habitat smothered
+ NOT AVAILABLE

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

SAMPLING AGENCY: 21FLPNS FL DEP DEAR NWROC		STORET STATION NUMBER: G3NW0011	DATE (MM/DD/YY): 4/11/23	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: Bay	LOCATION: Otter Creek	FIELD ID/NAME: G3NW0011	
WBID 950				

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>8</u>	20 19 18 17 16	15 14 13 12 11	10 9 <u>8</u> 7 6	5 4 3 2 1
Substrate Availability <u>5</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 <u>5</u> 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 <u>13</u> 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>9</u> Primary Score <u>3735</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 <u>11</u>	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 <u>9</u> 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components Artificial Channelization <u>13</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 <u>13</u> 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</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. <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 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

60 ~~107~~ 106 **TOTAL SCORE**

Date: <u>4/11/2023</u>	Analyst: <u>F. Butera</u>	Signature: 
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SBIO ID: 86343
62-160.800, F.A.C.

HA ID: 18187

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Otter Creek					County: Bay		Date: 4/4/23		Investigators: F. Butera		
										STORET Station Number: G3NW0011	
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	3	NO	95	60	1	2	NO	96	Secchi depth	
	2	3				2	2	NO		Estimated?	
	3	3				3	2			# points ranked 4-6	
	4	5				4	2			total points assessed	
	5	5				5	2			% points ranked 4-6	
	6	5				6	2				
	7	3				7	2				
	8	3				8	2				
	9	3				9	2				
10	1	5	NO	91	70	1	2	NO	96	Check accompanying data collected at same site/date.	
	2	5				2	2			Algal mat sample	
	3	4				3	2			Linear Veg Survey	
	4	5				4	2			Habitat Assessment	
	5	5				5	2			SCI/Biorecon	
	6	5				6	2			Water sample	
	7	3				7	2				
	8	3				8	2				
	9	2				9	2				
20	1	5	NO	96	80	1	2	NO	96	RQ- 2023-04-10-38	
	2	5				2	2				
	3	5				3	2				
	4	5				4	2				
	5	5				5	2				
	6	5				6	2				
	7	5				7	2				
	8	5				8	2				
	9	5				9	2				
30	1	5	NO	96	90	1	2	NO	96	Algal Thickness Rank	
	2	5				2	2			N rough, no algae, slimy, algae up to 1mm	
	3	5				3	2			3 >1mm - 6mm	
	4	5				4	2			4 >6mm - 20mm	
	5	5				5	2			5 >20mm - 10 cm	
	6	5				6	2			6 >10 cm	
	7	5				7	2				
	8	5				8	2				
	9	5				9	2				
40	1	3	NO	96	100	1	2	NO	96	SBIO Visit ID. 86343	
	2	3				2	2			RPS ID. 10076	
	3	3				3	2				
	4	5				4	2				
	5	5				5	2				
	6	5				6	2				
	7	5				7	2				
	8	5				8	2				
	9	5				9	2				
50	1	5	NO	94		1	2	NO		RPS score	
	2	5				2	2				
	3	5				3	2				
	4	5				4	2				
	5	5				5	2				
	6	5				6	2				
	7	5				7	2				
	8	5				8	2				
	9	5				9	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%.

[illegible]

Macro ID 12916

Station: Otter Creek Waste Pro Test Site Below Landfill
 GPS: 30.37638 x -85.9267
 Storet: G4NW0011 Field ID G4NW0011
 SBIO Sample ID: 86343
 Macro ID: 12416

Sampled : 04/11/2023
 Sampled By: F. Butera, N. Mulkey
 Location: Panama City, Bay Co.
 Receiving Waters: Choctawhatchee River
 LIMS ID: 2399763

	Taxa	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	C of C	Coll.	Verified
1	<i>Orontium aquaticum</i>						1					8.39		
2	<i>Sparganium americanum</i>	D	D	1	1								Y	AO
3	<i>Xyris</i> sp.			1	1									
	Total	1	1	2	2	0	1	0	0	0	0			
	Taxa per section	0	0	2	2	0	1	0	0	0	0	Herb. Taxa		
	Exotic Present	0	0	0							0	Woody Taxa		
	Avg. taxa per section	1										Ferns		
	sections with exotics											Macro Algae		
	Exotic Taxa		Exotics per Section:									Total Taxa		0

* These taxa were observed fully within the stream channel.

Photo Log

Storet G3NW0011

Station Name: Otter Creek

Date:

Samplers. F. Butera, N. Mulkey

1	N
2	E
3	S
4	W
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	

Notes.

Western Lake Run		WBID	Kit	Qty	Bottle Group	
CRESCENT LAKE	G5NW0159	697A	Nutrients	3	A	
Pond Creek West G4NW0277		176	W-PCL-TQ-R, W-PCB-TQ-R, W-CT-CI-R	4	B	
			Escherichia coli - UWF	1		
RQ-2023-06-19-25						
Field ID	WBID	WIN Description		County	Lat Long	
G5NW0159	697A	CRESCENT LAKE		Escambia	30.46570, -87.2731	
G4NW0277	176	Pond Creek West of Headwaters of Blackwater Bay		Santa Rosa	30.60671, -87.0584	
RQ-2023-06-19-25						
Preservative/Equipment	Lot #	Expiration date:				
UWF Bottle	L21347	1/13/2025				
Sulfuric Acid	SA3013020	1/25/2024				
Field ID	Notes (access, boat ramp, etc.)					
CRESCENT LAKE G5NW0159	Launch at end of Lake Shore Drive. 30.62801, -87.05550. NO trolling motor					
G4NW0277	Launch at Mayo Park (30.60679, -87.0584). Canoe Only, 1/3 mile downstream.					
Field ID	TIME	Conductivity		pH	D.O / D.O.%	Depth
G4NW0277						
G4NW0277						