



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?
Yes / No

April 2018

WIN Station Name: North Creek by Oaks Creek Ct.

Date: 09/20/2018

WIN/ Field ID: G3SD0064

WBID: 1984AB

Latitude: 27.205173

(mm/dd/yyyy)

County: Sarasota

ORG ID:

Longitude: -82.475184

(Decimal Degrees)

Receiving Body of Water: Sarasota Bay

RQ-2018- 09-17-66

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Maryann Dugan						X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole		
Nicole Reistad						X	X	X	X	X	☐ Carboy	☒ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with <u>SECCHI</u>				
											Equipment ID <u>3312A</u>				
											Collection Method				
											☒ Wading	☐ Canoe/Kayak			
											☐ From Shore	☐ Electric Motor			
											☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# <u>7</u>			Matrix: Fresh / Marine / DI						
Photos: <u>Yes</u> / No						Flow: No Flow / Intestinal / <u>Flowing</u> / NA			Tide: Rising/ Falling/ Slack/ <u>NA</u>			Tide Times: High <u>NA</u> Low <u>NA</u>			
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)					
<u>EST</u>	<u>1330</u>	<u>0.3</u>	<u>0.15</u>	<u>0.3</u>	<u>3.73</u>	<u>48.3</u>	<u>7.39</u>	<u>0.61</u>	<u>1230</u>	<u>28.69</u>					
CEN				<u>S</u>											
Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>RPS</u> <u>Algae ID</u> <u>LVS</u> <u>LVI</u> Other:															
SBIO ID Numbers: SBIO-ID: <u>78916</u> HA-ID: <u>15408</u> RPS-ID: <u>9102</u> Macrophyte-ID: <u>N/A</u> LIMS#:															
Parameter Suite		Parameter Methods					Preservation	Lot#	Expiration	pH Check					
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☒ H2SO4	<u>SA101020</u>	<u>01/1/19</u>	<u>5</u>	<u><2</u>				
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3				☐ <2				
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice								
Chlorophyll		☒ CHL-SUITE-W					☒ Ice								
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice								
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice								
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin								
Periphyton		☐ ALGAE-ID					☐ Ice								
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci					☒ Ice								
Molecular		☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GPD					☐ Ice								
Tracers		☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice								
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice								
		☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Other								

Notes: SBIO 1010918 NR

Field ID/WIN ID

G3SD0064

Location

North Creek by Oaks Crk Ct

Signature:

Maryann Dugan

Date:

09/20/2018

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets 1010918 NR

Migrate Data to WIN:

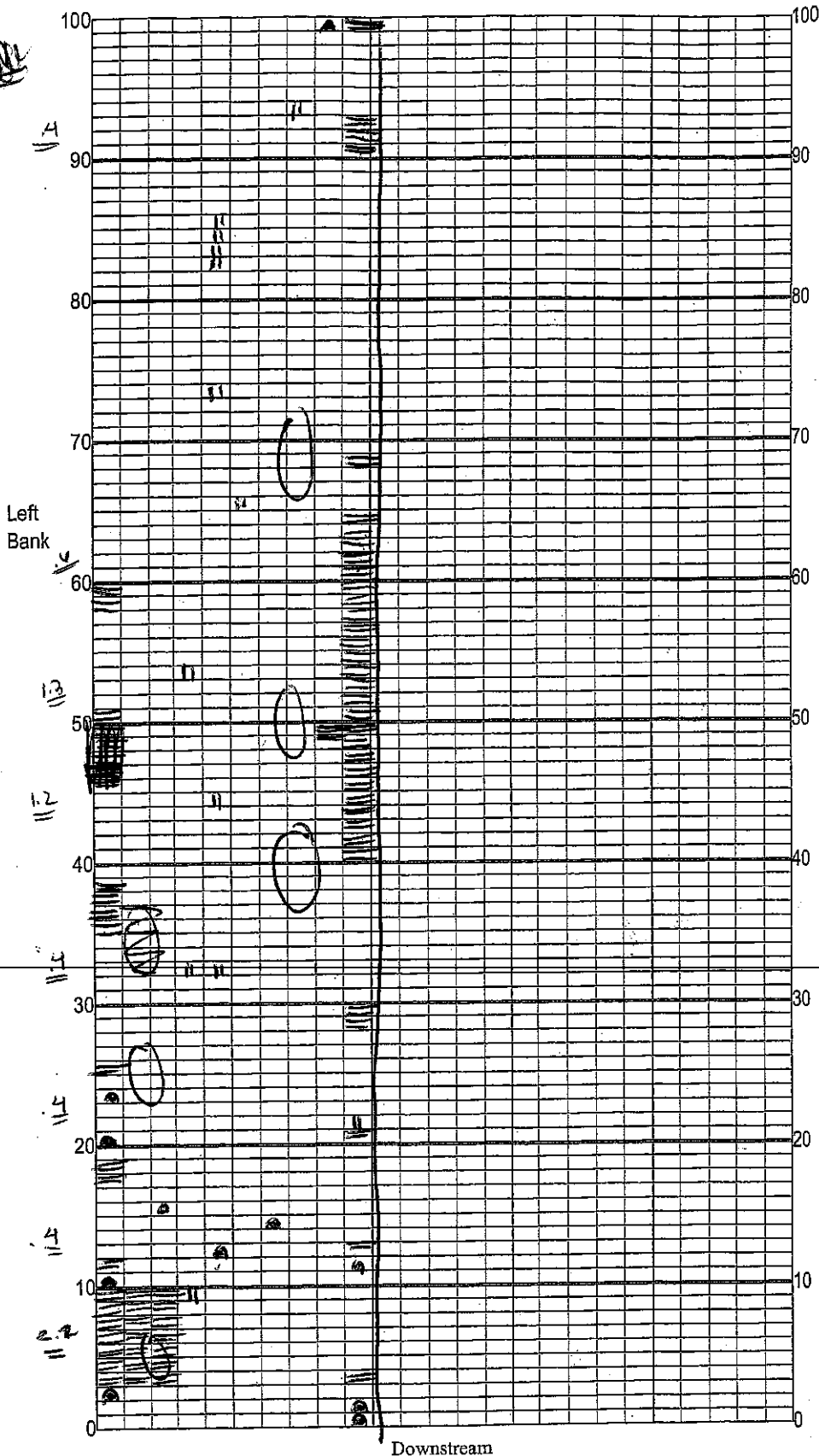
Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet



Location: NORTH CREEK

Date: 09/20/2018

Sampler: MARYANN DUGAN

100 m: Latitude 27.2048229
Longitude -82.4743468

0 m: Latitude 27.2050996
Longitude -82.4750522

Substrates: Code key, draw proportionate habitat abundance.	%
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90
10	100

Snags	1.3
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	Roots/undercut banks	6.9
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Leaf Packs (or mats) 

☒ Aquatic Macrophytes ☐

ROULES 1.1

0 Pools total # observed = 100
range expected = 200

Average width 1.0 m

Average depth 0.2 m

Velocity measured at 45 meter mark.

WQ & chemistry taken at 45 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:

1 Boy = 1 m²

78/m velocity
= 0.143 m/s

9.3% AVAILABLE
HABITAT

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

Revision Date: June 2, 2011

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

PUT STICKER UP ^ HERE		STORET STATION NUMBER: <u>G3SD0064</u>	DATE (MM/DD/YY): <u>09/20/18</u>	SAMPLING AGENCY: FDEP South ROC
FIELD ID/NAME: <u>G3SD0064</u>	COUNTY: <u>Sarasota</u>	LOCATION: <u>North Creek</u>	RECEIVING BODY OF WATER: <u>Sarasota Bay</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>5</u>	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock) 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered (5) 4 3 2 1
Substrate Availability <u>7</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>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 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>9</u> ----- Primary Score <u>33</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 Artificial Channelization <u>7</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 13 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>5</u> <u>5</u> Left Bank	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>7</u> <u>7</u> Left Bank	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>3</u> <u>3</u> Left Bank ----- Secondary Score <u>47</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

80

TOTAL SCORE

Date: <u>09/20/2018</u>	Analyst: <u>MARYANN DUGAN, NICOLE REISCH</u>	Signature: <u>Maryann Dugan</u>
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G3SD0064

Form FD 9000-25

FDEP Rapid Periphyton Survey (DEP SOP FS 7230)

Revised 6/12/12

Site: North Creek (Oaks Creek) County: Sarasota

Date: 09/20/2018

Investigators: Nicole Reistad, Margann Dugan

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover
0	1	N		40	1	N		80	1	N	
	2				2				2		
	3				3				3		
	4				4				4		
	5		95		5		95		5		96
	6				6				6		
	7				7				7		
	8				8				8		
	9				9				9		
10	1	N		50	1	N		90	1	N	
	2				2				2		
	3				3				3		
	4				4				4		
	5		96		5		96		5		96
	6				6				6		
	7				7				7		
	8				8				8		
	9				9				9		
20	1	N		60	1	N		100	1	N	
	2				2				2		
	3				3				3		
	4				4				4		
	5		96		5		95		5		95
	6				6				6		
	7				7				7		
	8				8				8		
	9				9				9		
30	1	N		70	1	N			1	N	
	2				2				2		
	3				3				3		
	4				4				4		
	5		96		5		96		5		
	6				6				6		
	7				7				7		
	8				8				8		
	9				9				9		

points ranked 4-6: 0

total points assessed: 99

% points ranked 4-6: 0

Secchi depth: 0.3

Check accompanying data collected at same site/date.

Algal mat sample: ☐

Habitat Assessment: ☒

Linear Veg. Survey: ☒

SCI/Biorecon (circle 1): ☐

Water sample: ☒

RQ: 2018-09-1766

Algal Thickness Rank

N	rough, no algae; slimy; algae to 1 mm
3	>1mm - 6 mm
4	>6 - 20 mm
5	>20 mm - 10 cm
6	>10 cm

Record "N" for points deeper than the Secchi depth; algae are presumed absent. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. Note if thickness estimated for deep points which can be seen but not reached.

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 an 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%.

(This fits with paper margins and orientation.)

User Defined Space.
Location, directions,
samples, whatever...

1234567890123456

Field ID
STORET

Date: 1/2/34

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

SAMPLE ID _____ ORG ID 214L7TM LATITUDE 27.2050994 27.205173
 COUNTY Sarasota STORET # _____ LONGITUDE NE -82.4750522 -82.475184
 DATE 09/20/2018 TIME 1330 SAMPLING AGENCY NE FDEP-SROC
 SITE NAME North Creek by Oaks Creek Ct.
 FIELD ID/NAME G3SD0064 RECEIVING BODY OF WATER Sarasota Bay

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) ☐ (Percentages: <u>10%</u> <u>10%</u> <u>30%</u> <u>40%</u> <u>10%</u>)							☒ Landscape Development Intensity Index (LDI) <u>2.00-3.00</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 _____ m wide _____ m/s <u>0.143</u> m/s _____ m/s			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>116</u> Right Bank: <u>116</u>				Hydrologic Modification Score (per FT 3101) _____			
High Water Mark: <u>0.2</u> + <u>0.3</u> = <u>0.85</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 % Coverage ☐ INVERT # 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>0.15</u> <u>28.69</u> <u>7.39</u> <u>3.73</u> <u>48.3</u> <u>1230</u> <u>0.61</u> <u>0.3</u> Mid: _____ Bottom: _____ Meter ID: <u>7</u> TOTAL DEPTH <u>0.3</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 Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SAB101020</u> Exp: <u>04/11/19</u>		
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☒ ☐ ☐ ☐ Fish: ☐ ☒ ☐ ☐ Aquatic Plants: ☐ ☒ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐ Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐ Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐		
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____			AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.		

SAMPLING TEAM

Nicole Reistad, Maryann Dugan

SIGNATURE

Nicole Reistad

DATE

09/20/2018