



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Date Qualified?

Yes / No

WIN Station Name: TERRAPIN CR @ Faye Rd.

Date: 1/31/19
(mm/dd/yyyy)

WIN/ Field ID: 20030653

WBID: 2204

Latitude: 30.434361

(Decimal Degrees)

County: Duval

ORG ID: 21 FLA

Longitude: -81.565555

(Decimal Degrees)

Receiving Body of Water: Dunn Creek

RQ-2019-01-21-22

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JEREMY PARRISH					X	X	X	X	
C. RUBEN						X		X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	

Depth Measured with _____
Equipment ID Ortho Kit #3

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

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Photos: Yes/ No Flow: No Flow / Intestinal / Flowing / NA
Meter ID# XST #3 Matrix: Fresh / Marine / DI
Tide: Rising/ Falling/ Slack/ NA Tide Times: High Low

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°)
EST	1015	0.2	0.1	0.25	10.2	88	6.68	0.08	167	9
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LV9 LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: 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	SA8A7090	7/2019	☒ <2
Metals	☒ W-ICPMS ☐ W-ICP	☒ Ice ☒ HNO3	NA197090	7/2019	☒ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice	SA1J792H5		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / 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-BacR ☐ PCR-GULL2 ☒ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☒ Ice			
Tracers	☒ W-E8321-DI ☒ W-E8321-MS	☒ Ice			
Pesticides	☒ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☒ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:

WIN / Field ID



20030653

Terrapin CR @ Faye Rd.

Signature: [Signature]

Date: 1/31/19

LIMS EVENT ID:

2019-02-01-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

2/2/19

QC Station ID, Field Parameters In LIMS DMT:

CR 2/13/19

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)

QA/QC Sample Information Duplicate

Time Zone: <u>EST</u> CEN		Time: <u>1015</u>		Field ID: <u>20030653 DUP</u> (WIN ID + DUP)	
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	SA8274050	10/19	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO ₃	NA8197080	7/19	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	SA1J792H5		
Chlorophyll	☒ CHLSUITE-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			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☒ PCR-FILTER ☒ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☒ Ice			
Tracers	☒ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☒ Ice			
Pesticides	☒ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☒ Ice ☐ Other			

Contains: 1:1 H₂SO₄
Lot No.: SA8274050
Expires: 10/01/19
See Safety Data Sheet (SDS)

Contains: 1:1 HNO₃
Lot No.: NA8197080
Expires: 07/16/19
See Safety Data Sheet (SDS)

Blank

Time Zone: <u>EST</u> CEN		Time: <u>1025</u>		Field ID: <u>20 FB1232019</u> (BLANK_DDMMYYYY)	
DI Source: <u>NE ROC LAB</u>		Location: <u>Terrapin & Faye Rd</u>			
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: <u>ortho # 3</u>			
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	SA8274050	10/19	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	SA1J792H5		
Chlorophyll	☒ CHLSUITE-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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☒ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Contains: 1:1 H₂SO₄
Lot No.: SA8274050
Expires: 10/01/19
See Safety Data Sheet (SDS)

Contains: 1:1 HNO₃
Lot No.: NA8197080
Expires: 07/16/19
See Safety Data Sheet (SDS)

Notes:

WIN ID

Field ID

Terrapin CR @ Faye Rd.

Location Field blank Terrapin faye

Field ID

FB01232019

Signature:

Date: 11/3/19

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: CR 2/13/19

(Initials/Date) (Initials/Date)

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____

(Initials/Date) (Initials/Date) (Initials/Date)

959218



79195

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Terrapin @ Faye Rd					County: Dural		Date: 1/31/19		Investigators: JP/CR	
Transect (m)	Point 1=right	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	STORET Station Number: 20050653
0	1	N	N		60	1	N	N		92
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N	N		70	1	N	N		68
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N	N		80	1	N	N		88
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N	N		90	1	N	N		54
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N	N		100	1	N	N		96
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	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									
	6									
	7									
	8									
	9									

Secchi depth	
Estimated?	

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

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

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

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

SAMPLE ID _____ ORG ID 21 FLA LATITUDE _____
 COUNTY Oswald STORET # 28030653 LONGITUDE _____
 DATE 1/31/19 TIME 1015 SAMPLING AGENCY NE ROC
 SITE NAME Terrapin & Faye Rd
 FIELD ID/NAME _____ RECEIVING BODY OF WATER _____

RIPARIAN ZONE / STREAM FEATURES

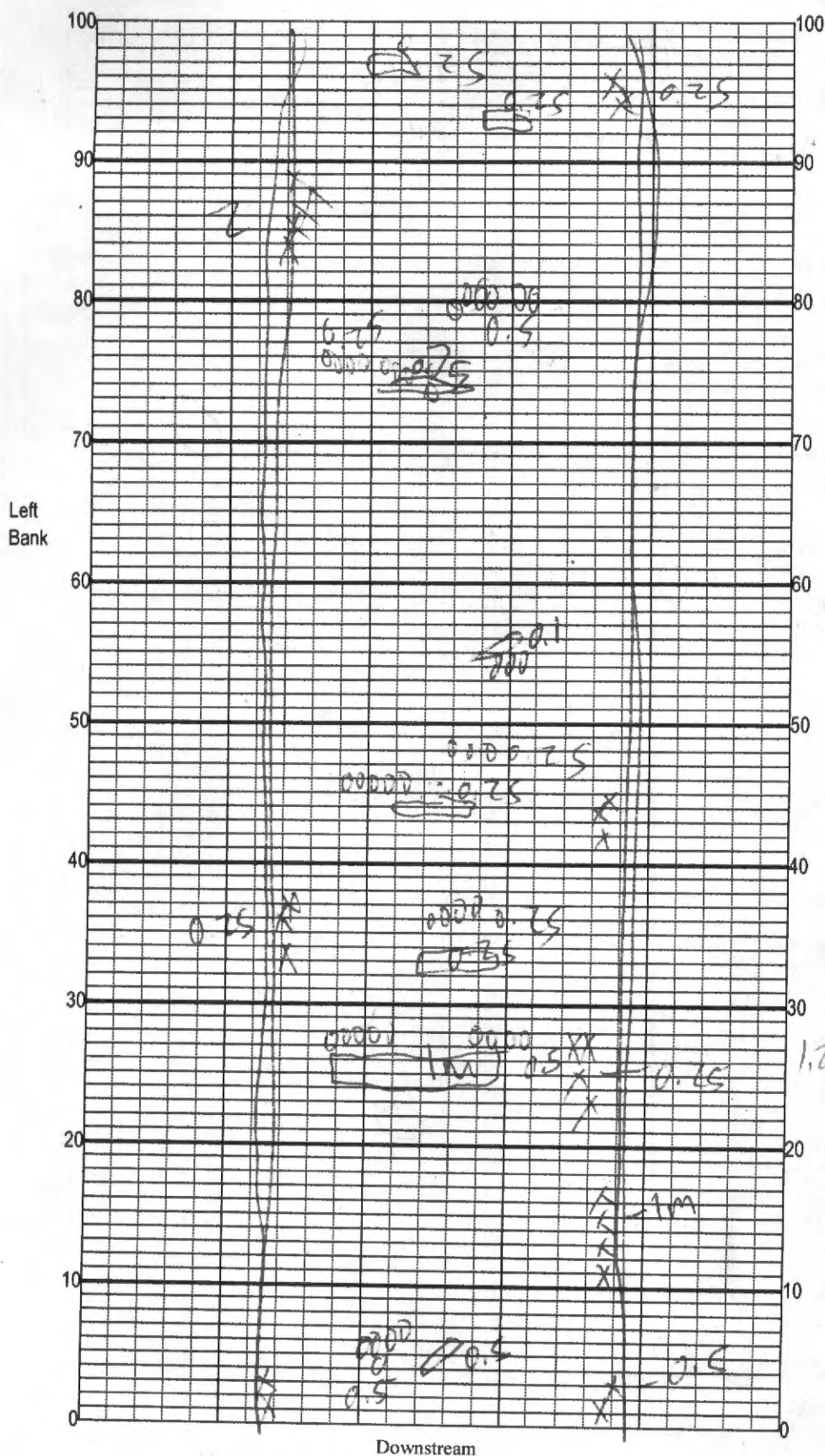
Meter ID: _____

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>15</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential _____ Commercial <u>50</u> Industry <u>35</u> 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 _____ m wide _____ m/s <u>0.21</u> m/s _____ m/s _____ m deep <u>0.2</u> m deep _____ m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>18m</u> Right Bank: <u>6-12m</u>				Hydrologic Modification Score (per FT 3101) _____				
High Water Mark: <u>0.4</u> + <u>0.2</u> = <u>0.6</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			WATER QUALITY <table border="1"> <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>0.1</u></td> <td><u>9</u></td> <td><u>6.88</u></td> <td><u>10.2</u></td> <td><u>88</u></td> <td><u>167</u></td> <td><u>0.08</u></td> <td></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bottom:</td> <td><u>0.2</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>0.25</u></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>0.1</u>	<u>9</u>	<u>6.88</u>	<u>10.2</u>	<u>88</u>	<u>167</u>	<u>0.08</u>		Mid:									Bottom:	<u>0.2</u>							<u>0.25</u>
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Bottom:	<u>0.2</u>							<u>0.25</u>																																				
Woody Debris (Snags) <u>1.75</u> <u>5</u> <u></u> Undercut Banks / Roots <u>1.75</u> <u>5</u> <u></u> Leaf Packs or Mat <u>1.75</u> <u>5</u> <u></u> Aquatic Vegetation _____ Rock or Shell Rubble _____ Sand <u>95</u> <u>5</u> <u></u> Mud / Muck / Silt _____ Other _____ Other _____			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐																																						
			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																						
			Algae 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:	☐	☐	☒	☐	AMBIENT FIELD CONDITIONS / NOTES: Hydrologic Disturbance Scoring ☐ 1-2 ☐ 3-4 ☐ 5-6 ☒ 7-8 ☐ 9-10 ☐ 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>John</u>			SIGNATURE: <u>John</u>			<u>1/31/19</u>																																						

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



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

2.5m

Location: Terrapin @ Gage

Date: 1/21/19

Sampler: JP/cr

100 m: Latitude _____
Longitude _____
0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

	Snags	1.75
	Roots/undercut banks	1.75
	Leaf Packs (or mats)	1.25
	Aquatic Macrophytes	_____
	_____	_____
	_____	_____
	Pools	total # observed = _____ # range expected = _____

Average width _____ m

Average depth _____ m

Velocity measured at _____ meter mark.

WQ & chemistry taken at _____ 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:

<2 M of Macrophytes was observed while doing the LVS? YES or NO

0.21 flow

79195

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

SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: 20030653	DATE (MM/DD/YY): 1/31/19	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: Orral	LOCATION: Terrapine Cove Rd	FIELD ID/NAME:	

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>11</u>	20 19 18 17 16	15 14 13 12 <u>11</u>	10 9 8 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>14</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 <u>14</u> 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>12</u> Primary Score <u>42</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 <u>12</u> 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>10</u>	20 19 18 17 16	15 14 13 12 11	<u>10</u> 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 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 root zone with raw, eroded areas.
Right Bank <u>4</u> Left Bank <u>4</u>	10 9	8 7 6	5 <u>4</u>	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>6</u> Left Bank <u>9</u>	10 <u>9</u>	8 7 <u>6</u>	<u>5</u> 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>7</u> Left Bank <u>8</u> Secondary Score <u>47</u> <u>48</u>	10 9	<u>8</u> <u>7</u> 6	5 4	3 2 1

89-90 TOTAL SCORE

Date: 1/31/19	Analyst: Jeremy Pansh	Signature: Jeremy Pansh
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Waterbody: <u>TEKAPINE FAYARD</u>	Date: <u>8/1</u>	County: <u>Durham</u>	Storet Number: <u>0030653</u>
-----------------------------------	------------------	-----------------------	-------------------------------

Analyst: 1/31/19 Signature: AL

Comments:

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.

Revision Date: March 1, 2014

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Collected By: J. Parrish & C. Ruben

Field Report Prepared By: Cheyanne Ruben

Sampling Agency: FDEP DEAR NE RCR

Location	WIN / Field ID	20030653	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1/31/19 Time 1015	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s) (See pg 2)
Field	Terrapin CR @ Faye Rd.		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 0.2 mg/L		Total Res. Chlorine (mg/L) —
WIN	Terrapin CR @ Faye Rd.		Temp (C) 9.0	pH 6.68	Sample Depth 0.1	Sp. Conductance (umho/cm) 107	A
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.08	Comments		
Location	WIN ID	20030653	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1/31/19 Time 1020	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s)
Field	Terrapin CR @ Faye Rd.		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen — mg/L		Total Res. Chlorine (mg/L) —
WIN	Terrapin CR @ Faye Rd.		Temp (C) —	pH —	Sample Depth —	Sp. Conductance (umho/cm) —	A
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) —	Comments		
Location	Field blank Terrapin faye	Field ID	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1/31/19 Time 1025	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s)
Field	Field blank Terrapin faye		Matrix (type, e.g., Salt, Fresh, etc) W-Field BIX		Diss. Oxygen — mg/L		Total Res. Chlorine (mg/L) —
WIN	Field blank Terrapin faye		Temp (C) —	pH —	Sample Depth —	Sp. Conductance (umho/cm) —	C
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) —	Comments		
Location	Field blank Terrapin faye	Field ID	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1/31/19 Time 1025	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s)
Field	Field blank Terrapin faye		Matrix (type, e.g., Salt, Fresh, etc) W-Field BIX		Diss. Oxygen — mg/L		Total Res. Chlorine (mg/L) —
WIN	Field blank Terrapin faye		Temp (C) —	pH —	Sample Depth —	Sp. Conductance (umho/cm) —	C
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) —	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Cheyanne Ruben	1/31/19 1400	Fedex	2		

Group:	A	Bottle Type:	P-1L	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
		ALKALINITY							
		TURBIDITY							
		W-CL-IC							
		W-COLOR							
		W-F							
		W-SO4-IC							
		W-TDS							
		W-TSS							
Group:	A	Bottle Type:	BP-1L	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
		CHLSUITE-W							
Group:	A	Bottle Type:	P-250ML-WI-THI	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2 to ALS</u>
		NE-ALS-ECQ							
Group:	A	Bottle Type:	QPCR-P-500ML	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
		PCR-HF183							
Group:	A	Bottle Type:	BG-500ML	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
		W-E8321-DI							
		W-E8321-MS							
Group:	A	Bottle Type:	P-500ML	# of Bottles:	2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	<u>2</u>
		W-ICP							
		W-ICPMS							
Group:	A	Bottle Type:	P-500ML	# of Bottles:	2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>2</u>
		W-NH3							
		W-NO2NO3							
		W-S-A-TP							
		W-TKN							
		W-TOC							
Group:	A	Bottle Type:	P-125ML	# of Bottles:	2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
		W-PO4-F							
Group:	A	Bottle Type:	BG-1L	# of Bottles:	6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>2</u>
		W-PSNP-TQ							
Group:	B	Bottle Type:	PT-50ML	# of Bottles:	1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>NA</u>

Group: B	Bottle Type: PT-50ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	N/A
ALGAL_ID					
Group: B	Bottle Type: PJ-2L	# of Bottles: 2	Preservative: Formalin	Enter Number of Bottles Sent to Lab	CR N/A 2 1/31/19
MI-FW-QLDC					
Group: C	Bottle Type: P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
ALKALINITY					
TURBIDITY					
W-CL-IC					
W-COLOR					
W-F					
W-SO4-IC					
W-TDS					
W-TSS					
Group: C	Bottle Type: BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
W-E8321-DI					
W-E8321-MS					
Group: C	Bottle Type: P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3					
W-NO2NO3					
W-S-A-TP					
W-TKN					
W-TOC					
Group: C	Bottle Type: P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
W-PO4-F					
Group: C	Bottle Type: BG-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
W-PSNP-TQ					