



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Date Qualified?

Yes / No

WIN Station Name: Wilson Mill Creek Upstream of SR 274

Date: 03/26/2019
(mm/dd/yyyy)

WIN/ Field ID: G2WA0020

WBID: 512

Latitude: 30.5777

(Decimal Degrees)

County: Calhoun

ORG ID: 21FLWQA

Longitude: -85.0591

(Decimal Degrees)

Receiving Body of Water: Graves Creek

RQ: 2018-10-08-27

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Mussen							X	X	X
April Wood Megrath					X	X			

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with Meter STXLC		
Equipment ID		

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

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# B6 H2			Matrix: <u>Fresh</u> / Marine / DI		
Photos: <u>Yes</u> / No		Flow: No Flow / Intestinal / Flowing / NA			Tide: Rising/ Falling/ Slack/ <u>NA</u>			Tide Times: High — Low —		
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (µmhos/cm)	Temp. (C°)
EST	9:29	0.3	0.15	VOB	8.3	90.0	6.16	0.03	76	17.37
CEN										

Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>RPS</u> Algae ID <u>LVS</u> LVI Other:									
SBIO ID Numbers: SBIO-ID: <u>79320</u> HA-ID: <u>15884</u> RPS-ID: <u>9330</u> Macrophyte-ID: <u>2m²</u> LIMS#: <u>207575</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	<u>8274050</u>	<u>10/1/14</u>	☒ <2	
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO ₃	<u>8197080</u>	<u>7-16-19</u>	☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice				
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-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				☐ Ice				

Notes: SCI KIT		Place Label Here	
Signature: <u>Curtis Mussen</u>		Date: <u>3-26-19</u>	

LIMS EVENT ID: <u>WAS-SECT-2019-03-26-01</u>	WIN Import ID:
Enter Field Parameters, Verify Station ID In LIMS DMT: <u>5/16/19</u>	QC Station ID, Field Parameters In LIMS DMT: <u>5/29/19</u>
Scan/Save Field Sheets	Migrate Data to WIN:
(Initials/Date)	(Initials/Date)
Verify Data In WIN:	(Initials/Date)

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

SAMPLE ID 79320 ORG ID 21FLWDA LATITUDE 30.577
 COUNTY Calhoun STORET # 62WA0020 LONGITUDE -85.0591
 DATE 3/26/19 TIME 9:29 SAMPLING AGENCY FAEP
 SITE NAME Willson Mill Creek
 FIELD ID/NAME G2WA0020 RECEIVING BODY OF WATER GRAVES CREEK

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): <u><1%</u> Forest/Natural <u>26%</u> Silviculture <u>10%</u> Field/Pasture <u>12%</u> Agricultural <u>45%</u> Residential <u>6%</u> Commercial <u><1%</u> Industry <u><1%</u> Other (Specify) <u>hilly</u>							Landscape Development Intensity Index (LDI) <u>3.2</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>4</u> m wide <u>24</u> m/s <u>0.3</u> m deep
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) <u> </u>			
High Water Mark: <u>0.9</u> + <u>0.3</u> = <u>1.2</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 <table border="1"> <thead> <tr> <th></th> <th>% Coverage</th> <th>INVERT # Times Sampled</th> <th>PERI # Times Sampled</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td><u>30</u></td> <td><u>5</u></td> <td><u>—</u></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>3</u></td> <td><u>5</u></td> <td><u>—</u></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>2</u></td> <td><u>5</u></td> <td><u>—</u></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> </tr> <tr> <td>Sand.....</td> <td><u>—</u></td> <td><u>5</u></td> <td><u>—</u></td> </tr> <tr> <td>Mud / Muck / Silt</td> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> </tr> <tr> <td>Other</td> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> </tr> <tr> <td>Other</td> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> </tr> </tbody> </table>				% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	<u>30</u>	<u>5</u>	<u>—</u>	Undercut Banks / Roots	<u>3</u>	<u>5</u>	<u>—</u>	Leaf Packs or Mat	<u>2</u>	<u>5</u>	<u>—</u>	Aquatic Vegetation	<u>—</u>	<u>—</u>	<u>—</u>	Rock or Shell Rubble..	<u>—</u>	<u>—</u>	<u>—</u>	Sand.....	<u>—</u>	<u>5</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 QUALITY <table border="1"> <thead> <tr> <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></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mid:</td> <td><u>0.15</u></td> <td><u>17.37</u></td> <td><u>6.16</u></td> <td><u>8.63</u></td> <td><u>90.0</u></td> <td><u>76</u></td> <td><u>0.3</u></td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>5101674 #2</u>			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:								Mid:	<u>0.15</u>	<u>17.37</u>	<u>6.16</u>	<u>8.63</u>	<u>90.0</u>	<u>76</u>	<u>0.3</u>	Bottom:							
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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>See Field Q&A</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 ☐																																																																										
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AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																													

SAMPLING TEAM

Curtis Musson Avril-Wood-McGrath

SIGNATURE:

Curtis Musson

DATE:

3-26-19

[illegible]

SB to PD: 79320 ✓
RPS: 9330 ✓

Entered by: ~~888~~ 5/16/19
QC'd by: Amilwood Millwright
6/11/19

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Wilson Mill Creek at CR274</u>					County: <u>Calhoun</u>		Date: <u>3-26-19 ✓</u>		Investigators: <u>Curtis Mussen</u>		
STORET Station Number: <u>62WA0020 ✓</u>											
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	N	NO		60	1	N	NO			
	2					2					
	3					3					
	4					4					
	5			86 ✓		5			96 ✓		
	6					6					
	7					7					
	8					8					
	9					9					
10	1	N			70	1	N				
	2					2					
	3					3					
	4					4					
	5			70 ✓		5			59 ✓		
	6					6					
	7					7					
	8					8					
	9					9					
20	1	N			80	1	N				
	2					2					
	3					3					
	4					4					
	5			96 ✓		5			70 ✓		
	6					6					
	7					7					
	8					8					
	9					9					
30	1	N			90	1	N				
	2					2					
	3					3					
	4					4					
	5			96 ✓		5			39 ✓		
	6					6					
	7					7					
	8					8					
	9					9					
40	1	N			100	1	N				
	2					2					
	3					3					
	4					4					
	5			48 ✓		5			88 ✓		
	6					6					
	7					7					
	8					8					
	9					9					
50	1	N				1	N				
	2					2					
	3					3					
	4					4					
	5			68 ✓		5					
	6					6					
	7					7					
	8					8					
	9			NO		9					

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%.

Secchi depth Vob
Estimated? NO

points ranked 4-6 0
total points assessed 99
% points ranked 4-6 0

(Exclude X's)

Check accompanying data collected at same site/date.

Algal mat sample NO
Linear Veg Survey YES
Habitat Assessment YES
SCI/Biorecon SAFE YES
Water sample YES

RQ- 2018-10-01-27

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

(> 3 considered smothered)

(N to 1 mm)

(3) 6mm

(4) 20mm

(5) 10cm

(6)

Entered by: ~~888~~ 5/16/19
 Oc'd by: ANM 6/13/19

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

HA ID: 15484 ✓

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: 62WA0020	DATE (MM/DD/YY): 3/26/19	RECEIVING BODY OF WATER: Graves Creek
REMARKS: 5810 ED 79320	COUNTY: Calhoun	LOCATION: Willson Mill Creek	FIELD ID/NAME: 62WA0020	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Snag Leaf Aquatic Vegetation Roots Rock Substrate Diversity <u>17</u> ✓	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 Availability <u>20</u> ✓ <u>>30</u> %	Major productive habitat present at site (>30% 27.2% 25.8% 24.4% 26.6%) <u>20</u> 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 <u>13</u> 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>15</u> ✓ <u>24</u> m/s @ <u>60</u> m	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 <u>15</u> 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>11</u> ✓ Primary Score <u>59</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 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>20</u> ✓	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. <u>20</u> 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. May have spoil banks. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. May have spoil banks. 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>9</u> ✓ Left Bank <u>9</u> ✓ If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	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>10</u> ✓ Left Bank <u>10</u> ✓	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m (18m 15m 12m) 8 7 6	Width of vegetation 6 to 12 m. human activities close to system (9m) 5 4	Less than 6 m of buffer zone due to intensive human activities (6-5m) (4-3m) (<2m) 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>10</u> ✓ Left Bank <u>10</u> ✓ Secondary Score <u>78</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

1370 ANM

TOTAL SCORE

COTHS MUSSEN

Date: <u>3-26-19</u>	Analyst: <u>COTHS MUSSEN</u>	Signature: <u>[Signature]</u>
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high water water
 0.9 m above current
 water level
 - ANM

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

Waterbody: Wilson Mill Creek at CR274 Date: 3/26/19 County: Calhan Storet Number: 62 WA 0002

Analyst: Curtis Mussen Signature: Curtis Mussen

Comments: SMP Sampling NO Aquatic Veg

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.

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	
Alternanthera philoxeroides												Myriophyllum heterophyllum											
Bacopa caroliniana												Najas guadelupensis											
Bacopa monnieri												Nuphar luteum											
Bidens mitis												Orontium aquaticum											
Boehmeria cylindrica												Panicum hemitomon											
Centella asiatica												Panicum repens											
Ceratophyllum demersum												Panicum rigidulum											
Chara												Peltandra virginica											
Cicuta maculata												Pistia stratioides											
Cladium jamaicense												Polygonum glabra											
Colocasia esculenta												Polygonum hydropiperoides											
Commelina diffusa												Polygonum punctatum											
Commelina virginica												Pontederia cordata											
Crinum americanum												Potamogeton illinoensis											
Diodia virginiana												Rhynchospora inundata											
Eichhornia crassipes												Rosa palustris											
Eleocharis (wispy viviparous)												Ruellia simplex											
Hydrilla verticillata												Rumex verticillatus											
Hydrocotyle												Sagittaria lancifolia											
Hygrophila polysperma												Sagittaria latifolia											
Hymenocallis												Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus											
Lemna												Scirpus (schenoplectus) californicus											
Limnophila sessiflora												Sparganium americanum											
Ludwigia leptocarpa												Typha											
Ludwigia palustris												Vallisneria americana											
Ludwigia peruviana												Zizania aquatica											
Ludwigia repens																							
Luziola fluitans																							
Micranthemum glomeratum																							
Micranthemum umbrosum																							
Mikania scandens																							
Myriophyllum aquaticum																							

If no Dominant or Co-Dominant were selected, indicate with "X"

Indicate % cover macrophytes per section

0-5% Macrophyte Coverage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

Notes:

2% coverage Area 3/26/19
less than 2m²

SB10 ID: 79320

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID: Bio #2

RQ: 2018-10-09-27

Project: Smp

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT- E	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/26/19	657	20.36	9.021	9.03	100.0	53.3	~	P /F	L /F
ICV	Curtis Musson	3/26/19	658	20.36	9.021	9.03	100.0	53.3	~	P /F	L /F
CCV	Curtis Musson	3/26/19	1433	21.37	9.846	9.87	100.2	52.3	-	P /F	L /F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT- E	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/26/19	701	180221A	03/26/19	500	500	P /F	L /F
ICV	Curtis Musson	3/26/19	702	180221A	03/26/19	500	500	P /F	L /F
CCV	Curtis Musson	3/26/19	1437	180221A	03/26/19	100	105	P /F	L /F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT- E	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/26/19	706	171005B	04/26/19	7.0	7.00	-17.4	P /F	L /F
Calibr.	Curtis Musson	3/26/19	709	180927A	10/20/19	4.01	4.01	157	P /F	L /F
Calibr.	Curtis Musson	3/26/19	712	180927C	04/20/20	10.01	9.99	-185	P /F	L /F
ICV	Curtis Musson	3/26/19	715	180927A	10/20/19	4.01	3.99	158	P /F	L /F
CCV	Curtis Musson	3/26/19	1439	170926C	4/26/19	7.00	7.08	-19	P /F	L /F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT- E	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	3/26/19	704	0.0	0.0	P /F	L /F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Page 1 of 3
last revised Jan 25, 2018

Requester: Curtis Musson

Collected By:

Field Report Prepared By: Ami Wood-McGath
Sampling Agency: FDEP
Cirris Mussion, Ami Wood-McGath

Field Report Prepared By: Ann Wood-McGath
Sampling Agency: FDLP

Location		Field ID		WIN/STORET #		Latitude		Longitude		Bottle Group(s)	
Wilson Mill Creek		G12WA0020		G12WA0020		62W		A0020		A	
Field/Min ID → G12WA0020		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	
WIN/STORET #		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Latitude		dd		Long		dd		dms		Bottle Group(s)	
62W		A		0020		0020		0020		A	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	
WIN/STORET #		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Latitude		dd		Long		dd		dms		Bottle Group(s)	
62W		A		0020		0020		0020		A	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	
WIN/STORET #		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Latitude		dd		Long		dd		dms		Bottle Group(s)	
62W		A		0020		0020		0020		A	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	
WIN/STORET #		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Latitude		dd		Long		dd		dms		Bottle Group(s)	
62W		A		0020		0020		0020		A	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	
WIN/STORET #		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Latitude		dd		Long		dd		dms		Bottle Group(s)	
62W		A		0020		0020		0020		A	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	
WIN/STORET #		Matrix (Type, e.g., Salt, Fresh, etc)		Temp (C)		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Fresh		17.37		6.16		0.15		7.6	
Latitude		dd		Long		dd		dms		Bottle Group(s)	
62W		A		0020		0020		0020		A	
Location		Salinity (ppt)		Comments		pH		Sample Depth		Diss. Oxygen	
G12WA0020		0.03		NO MERCURY		6.16		0.15		7.6	
Field ID		Collection (comp begin or grab)		Time		pH		Sample Depth		Diss. Oxygen	
G12WA0020		Grab		3/26/19		6.16		0.15		7.6	

Group: A	Bottle Type:	P-1L	# of Bottles: 2	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: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOLI-18QT						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	W-E8321-DI						
	W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	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: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: A	Bottle Type:	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-PSNP-TQ						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	ALGAL_ID						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	

Group: B

Bottle Type:

PJ-2L

of Bottles: 4

Preservative:

Formalin

Enter Number of Bottles Sent to Lab

4

MI-FW-QLDC

Cooler Packing Worksheet for Request: RQ-2018-10-08-27

Group 2 SCIs

Ship Cooler On: 10/4/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SHAIK_A

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, Metals, Some GC, Some LC, E. coli

Group B: SCI, Algal ID

Added a QC bottle for E8321 tests

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2

Preservation: ICE

Lot # 5071991

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 2

Preservation: ICE

Lot # 1219441

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 2 Preservation: ICE

Lot # L18038

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: BG-500ML

Qty: 3 Preservation: ICE

Lot # 00071482

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00071864

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00071864

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 2 Preservation: FILTER-ICE

Lot # 00068347

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 050 71178

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: B

of Sites: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 050

Description: Plastic Tube 50 mL

03775003

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Container ID: PJ-2L

Qty: 4 Preservation: Formalin

Lot # Brownie

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By: ABF

Number of Coolers: 3

Date: 10-18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-10-08-27