# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
## STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / (No)

**WIN Station Name:** CARLTON BRANCH @ SR674 **Date:** 3-13-19 (mm/dd/yyyy)

**WIN/ Field ID:** G2SW0099 **WBID:** 1724 **Latitude:** 27.70790 (Decimal Degrees)

**County:** HILLS. **ORG ID:** 21FLTPA **Longitude:** -82.25730 (Decimal Degrees)

**Receiving Body of Water:** ALAFIA **RQ-** 2019-03-11-32

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|---|---|---|---|---|---|
| JUSTY ASHTON | ✓ | | ✓ | | |
| BEN PASQUARELL | | ✓ | | | |
| SARAH MEYER | | | | ✓ | ✓ |

**Sampling Equipment**
- [X] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [ ] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with
- Equipment ID

**Collection Method**
- [X] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [ ] Gasoline Motor

**Water Level:** Dry/ Pooled/ Low/ (Normal) / High / Flooded **Meter ID#** 21L JON **Matrix:** (Fresh) / Marine / DI

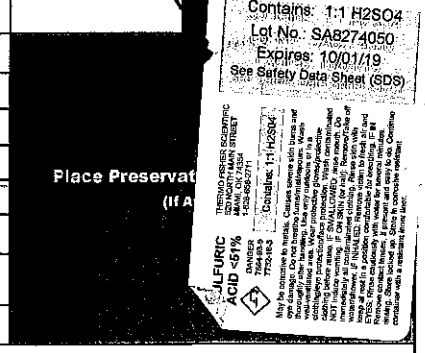
**Photos:** (Yes) / No **Flow:** No Flow / Intestital / (Flowing) / NA **Tide:** Rising/ Falling/ Slack/ (NA) **Tide Times:** High ____ Low ____

| Time Zone | Time | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L) | DO (%SAT) | pH | Salinity (PPTh) | Sp COND (µmhos/cm) | Temp. (C°) |
|---|---|---|---|---|---|---|---|---|---|---|
| EST | 1130 | 1.0 | 0.1 | 1.0 | 8.75 | 96.9 | 5.57 | 0.13 | 276 | 20.11 |
| CEN | | | | "5" | | | | | | |

**Biological Samples Collected:** None (HA) (SCI) (RPS) Algae ID (LVS) LVI Other:

**SBIO ID Numbers:** SBIO-ID: 79283 HA-ID: 15700 RPS-ID: 9274 Macrophyte-ID: < 2m² LIMS#:

| Parameter Suite | Parameter Methods | Preservation | Lot# | Expiration | pH Check |
|---|---|---|---|---|---|
| Preserved Nutrients | [X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | [ ] Ice [X] $H_2SO_4$ | 809140 | 4-9-19 | [ ] <2 |
| Metals | [ ] W-ICPMS [ ] W-ICP | [ ] Ice [X] $HNO_3$ | | | |
| Filtered Nutrients | [ ] W-PO4-F [ ] Field Filtered 0.45 µm Filter | [X] Ice | | | |
| Chlorophyll | [X] CHLSUITE-W | [X] Ice | | | |
| Physical/Aggregate (Fresh) | [X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | [X] Ice | | | |
| Physical/Aggregate (Marine) | [ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY | [ ] Ice | | | |
| Macroinvertebrates | [ ] MI-FW-QLDC | [ ] Formalin | | | |
| Periphyton | [ ] ALGAE-ID | [ ] Ice | | | |
| Microbiology | [X] E Coli [ ] F Coli [ ] Enterococci | [X] Ice | | | |
| Molecular | [ ] PCR-FILTER [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-HF183 [ ] PCR-DG3 [ ] PCR-GFD | [ ] Ice | | | |
| Tracers | [X] W-E8321-DI [ ] W-E8321-MS | [X] Ice | | | |
| Pesticides | [X] W-PSNP-TIQ [ ] W-CT-CL-R [ ] W-E8321-DI [ ] W-PCL-SQ-R [ ] WE8321-MS [ ] W-CARB-AA | [X] Ice | | | |
| Phytoplankton | [ ] DTY-QN-C [ ] PKD-QN-C | | | | |




**Notes:**
Flow = 0.25 m/s

Field ID/WIN G2SW0099

Site Name: Carlton Branch @ SR674

Signature: [signature] Date: 3-13-19

LIMS EVENT ID: 2019-03-14-02 WIN Import ID: 13905

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 03/26/2019 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: SM 06/11/2019 (Initials/Date)

Scan/Save Field Sheets SM 09/19/2019 (Initials/Date) Migrate Data to WIN: SM 08/12/2019 (Initials/Date) Verify Data In WIN: SM 09/19/2019 (Initials/Date)

Field ID/WIN G2SW0099

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

Site Name: Carlton Branch @ SR674 | 21FLTPA | 3-13-19 | 1130

LATITUDE 27.70790 | LONGITUDE -82.25730

SITE NAME see sticker | TIME | SAMPLING AGENCY FDEP SW ROC

DATE 03/13/2019 | RECEIVING BODY OF WATER

## 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) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Landscape Development Intensity Index (LDI)**:

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy

**Width of Riparian Vegetation (m) on Each Buffer Side**

Left Bank : 71Bm Right Bank : 71Bm

**Hydrologic Modification Score** (per FT 3101) 3

**High Water Mark:** 1.0 (m) + 0.5 (above present water level) = 1.5 (present depth) (above bed)

**Artificially Impounded** ☐ Yes ☒ No

**Typical Width (m) Depth (m)/Velocity (m/sec) Transect**

2.0 m wide

| | | |
|---|---|---|
| m/s | 0.25 m/s | m/s |
| m deep | 0.5 m deep | 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**

| | None | Slight | Moderate | Severe |
|---|---|---|---|---|
| Sand Smothering: | ☐ | ☐ | ☐ | ☒ |
| Silt Smothering: | ☐ | ☒ | ☐ | ☐ |
| Algae Smothering: | ☒ | ☐ | ☐ | ☐ |

**SUBSTRATE TYPE**

Assessment Tool: ☒ SCI ☒ RPS ☐ LVS ☐ LCI ☐ BioRecon

| | % Coverage | INVERT # Times Sampled | PERI # Times Sampled |
|---|---|---|---|
| Woody Debris (Snags) | 8.2 | 10 | |
| Undercut Banks / Roots | few | 4 | |
| Leaf Packs or Mat ..... | | | |
| Aquatic Vegetation ..... | few | 1 | |
| Rock or Shell Rubble.. | | | |
| Sand..... | | 5 | |
| Mud / Muck / Silt ..... | | | |
| Other ..... | | | |
| Other ..... | | | |

**WATER QUALITY**

| | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat (%) | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M) |
|---|---|---|---|---|---|---|---|---|
| Top : | 0.1 | 20.11 | 5.57 | 8.75 | 96.9 | 276 | 0.13 | 1.0 |
| Mid: | | | | | | | | ☒ VOB |
| Bottom | | | | | | | | TOTAL DEPTH 1.0 |

Meter ID: Lil Jon

**Water Odors** Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

**Water Surface Oils** Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☒ Yes ☐ No

Lot Number: Exp:

**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 ☐

**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:**

☐ The antecedent hydrologic conditions have been met to my best knowledge.

**SAMPLING TEAM** Judy Ashton, Ben Paswater, Sarah Meyer

SIGNATURE : Sarah Meyer

DATE : 03/13/2019

Field ID/WIN G2SW0099

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

Site Name: Carlton Branch @ SR674

County: Hills. Waterbody:

Analyst: J Ashton B Paswater S Meyer Signature: Sarah Meyer

Comments: < 2 m²

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. **bold is exotic invasive**

| HERBACEOUS SPECIES | Meter Mark 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | Specimen collected (check) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alternanthera philoxeroides** | | | | | | | | | | | |
| Bacopa caroliniana | | | | | | | | | | | |
| Bacopa monneri | | | | | | | | | | | |
| Bidens mitis | | | | | | | | | | | |
| Boehmeria cylindrica | | | | | | | | | | | |
| Centella asiatica | | | | | | | | | | | |
| Ceratophyllum demersum | | | | | | | | | | | |
| Chara sp. | | | | | | | | | | | |
| Cicuta maculata | | | | | | | | | | | |
| Cladium jamaicense | | | | | | | | | | | |
| Colocasia esculenta | | | | | | | | | | | |
| Commelina diffusa | | | | | | | | | | | |
| Commelina virginica | X | X | X | | X | | | X | X | X | |
| Crinum americanum | | | | | | | | | | | |
| Cyperus | | | | | | | | | | | |
| Diodia virginiana | | | | | | | | | | | |
| **Eichhornia crassipes** | | | | | | | | | | | |
| Eleocharis (wispy viviparous) | | | | | | | | | | | |
| **Hydrilla verticillata** | | | | | | | | | | | |
| Hydrocotle sp. | | X | | | X | | | | | | |
| **Hygrophila polysperma** | | | | | | | | | | | |
| **Hymenachne amplexicaulis** | | | | | | | | | | | |
| Hymenocallis | | | | | | | | | | | |
| Lachnanthes caroliniana | | | | | | | | | | | |
| **Landoltia punctata** | | | | | | | | | | | |
| Lemna sp. | | | | | | | | | | | |
| **Limnophila sessiflora** | | | | | | | | | | | |
| Ludwigia leptocarpa | | | | | | | | | | | |
| Ludwigia palustris | | | | | | | | | | | |
| **Ludwigia peruviana** | | | | | | | X | | | | |
| Ludwigia repens | | | | | | | | | | | |
| Luziola fluitans | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 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 | |
| >5 and ≤10% Macrophyte Coverage | | | | | | | | | | | |
| >10 and ≤25% Macrophyte Coverage | | | | | | | | | | | |
| >25 and ≤50% Macrophyte Coverage | | | | | | | | | | | |
| > 50% Macrophyte Coverage | | | | | | | | | | | |

| HERBACEOUS SPECIES | Meter Mark 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | Specimen collected (check) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Micranthemum glomeratum | | | | | | | | | | | |
| Micranthemum umbrosum | X | X | X | X | X | X | | | | | |
| **Myriophyllum aquaticum** | | | | | | | | | | | |
| Najas guadelupensis | | | | | | | | | | | |
| Nuphar luteum | | | | | | | | | | | |
| Orontium aquaticum | | | | | | | | | | | |
| Panicum hemitomon | | | | | | | | | | | |
| **Panicum repens** | | | | | | | | | | | |
| Panicum rigidulum | X | | | | | | | | | | |
| **Pistia stratioides** | | | | | | | | | | | |
| Polygonum glabra | | | | | | | | | | | |
| Polygonum hydropiperoides | | | | | | | | | | X | |
| Polygonum punctatum | | | | | | | | | | | |
| Pontedaria cordata | | | | | | | | | | | |
| Potamogeton illinoensis | | | | | | | | | | | |
| Ruellia simplex | | | | | | | | | | | |
| Sacciolepis striata | | | | | | | | | | | |
| Sagittaria kurziana | | | | | | | | | | | |
| Sagittaria lancifolia | | | | | | | | | | | |
| Sagittaria latifolia | | | | | | | | | | | |
| **Salvinia minima** | | | | | | | | | | | |
| Samolus parviflora | | | | | | | | | | | |
| Saururus cernuus | | | | | | | | | | | |
| Sparganium americanum | | | | | | | | | | | |
| **Sphagneticola trilobata (Wedelia)** | | | | | | | | | | | |
| Typha sp. | | | | | | | | | | | |
| **Urochloa mutica (Para Grass)** | | | | | | | | | | | |
| Vallisneria americana | | | | | | | | | | | |
| Zizania aquatica | | | | | | | | | | | |
| | | | | | | | | | | | |
| Thelepteris | X | X | X | X | | | X | | X | | |
| Echinocloa walteri | X | | | | | | | | | | |
| Bidens alba | | | X | | | | | | | | |
| Sambucus | | | | X | | | | | | | |
| Acrosticum | | | | X | X | | | X | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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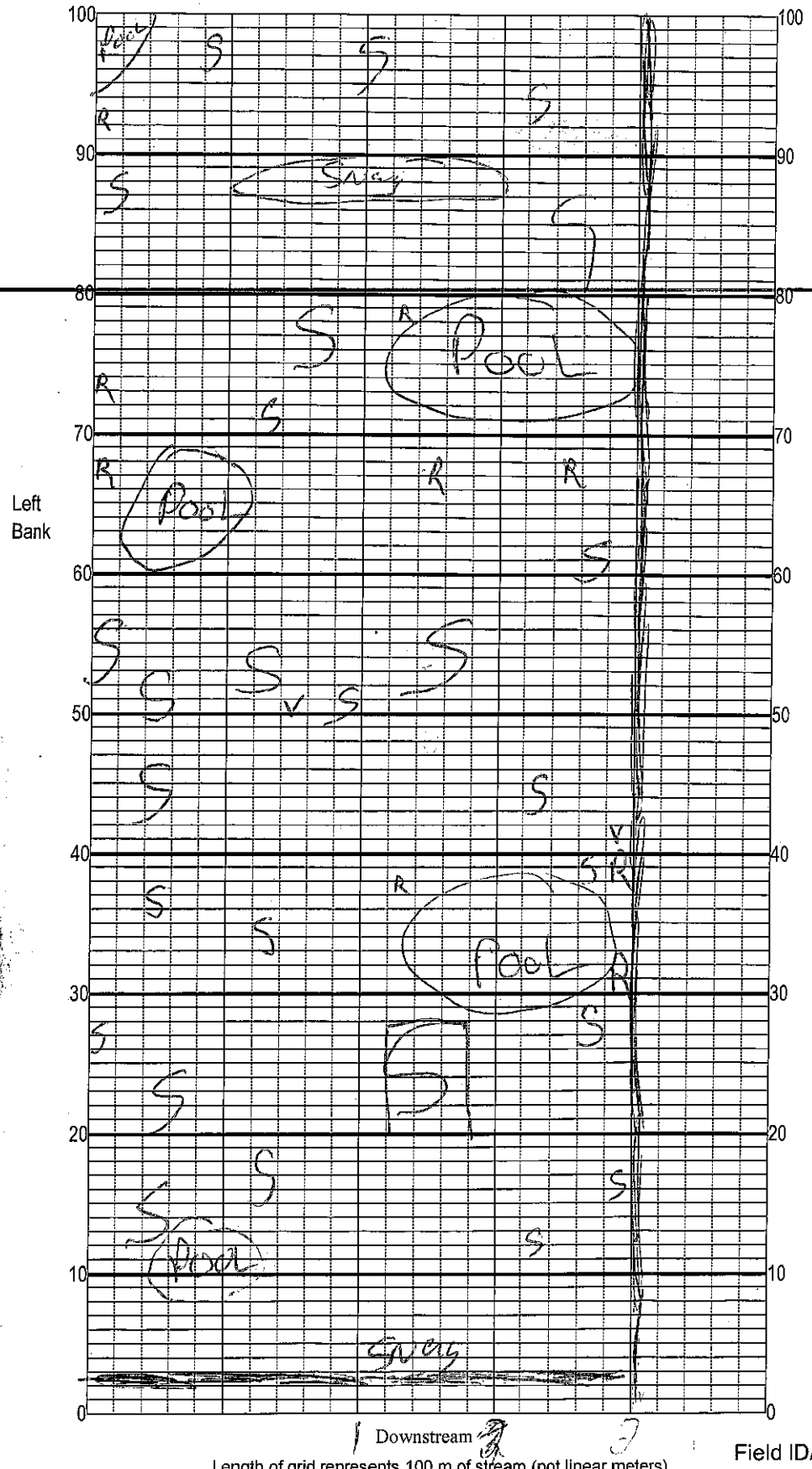
| | | | | | | | | | | | |

**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).

Location: Carlton Branch@SR674

Date: 3/13/19

Sampler: Ben Pasmore

| | |
|---|---|
| 100 m: Latitude | |
| Longitude | |
| 0 m: Latitude | |
| Longitude | |

Substrates: Code key, draw proportionate habitat abundance. %

| | | |
|---|---|---|
| S | Snags | 5% 2 |
| R | Roots/undercut banks | few |
| | Leaf Packs (or mats) | |
| V | Aquatic Macrophytes | few |
| | | |
| | | |
| 4½ | Pools | total # observed = 4½ |
| | | # range expected = 4-6 |

Average width 2 m

Average depth 0.5 m

Velocity measured at 0, 50, 100 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering: All over
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:

Snags 168

Roots

Field ID/WIN G2SW0099

62-160.800, F.A.C

Site Name: Carlton Branch @ SR674

Field ID/WIN G2SW0099

Site Name: Carlton Branch @ SR674

**FORM FD 9000-25 Rapid Periphyton Survey Field Sheet**

Investigators: J Ashton B Pasweater S Meyer

County: Hills.

STORET Station Number: G2SW0099

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | N | | | | 1 | N | | |
| | 2 | | | | | 2 | | | |
| | 3 | | | | | 3 | | | |
| | 4 | | | | | 4 | | | |
| 0 | 5 | | | 96 | 60 | 5 | | | 50 |
| | 6 | | | | | 6 | | | |
| | 7 | | | | | 7 | | | |
| | 8 | | | | | 8 | | | |
| | 9 | N | | | | 9 | N | | |
| | 1 | N | | | | 1 | N | | |
| | 2 | | | | | 2 | | | |
| | 3 | | | | | 3 | | | |
| | 4 | | | | | 4 | | | |
| 10 | 5 | | | 76 | 70 | 5 | | | 10 |
| | 6 | | | | | 6 | | | |
| | 7 | | | | | 7 | | | |
| | 8 | | | | | 8 | | | |
| | 9 | N | | | | 9 | N | | |
| | 1 | N | | | | 1 | N | | |
| | 2 | | | | | 2 | | | |
| | 3 | | | | | 3 | | | |
| | 4 | | | | | 4 | | | |
| 20 | 5 | | | 66 | 80 | 5 | | | 38 |
| | 6 | | | | | 6 | | | |
| | 7 | | | | | 7 | | | |
| | 8 | | | | | 8 | | | |
| | 9 | N | | | | 9 | N | | |
| | 1 | N | | | | 1 | N | | |
| | 2 | | | | | 2 | | | |
| | 3 | | | | | 3 | | | |
| | 4 | | | | | 4 | | | |
| 30 | 5 | | | 94 | 90 | 5 | | | 4 |
| | 6 | | | | | 6 | | | |
| | 7 | | | | | 7 | | | |
| | 8 | | | | | 8 | | | |
| | 9 | N | | | | 9 | N | | |
| | 1 | N | | | | 1 | N | | |
| | 2 | | | | | 2 | | | |
| | 3 | | | | | 3 | | | |
| | 4 | | | | | 4 | | | |
| 40 | 5 | | | 60 | 100 | 5 | | | 78 |
| | 6 | | | | | 6 | | | |
| | 7 | | | | | 7 | | | |
| | 8 | | | | | 8 | | | |
| | 9 | N | | | | 9 | N | | |
| | 1 | N | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| 50 | 5 | | | 88 | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | N | | | | | | | |

| | |
|---|---|
| Secchi depth | 1.0 |
| Estimated? | NO |

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

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

RQ-2019-03-11-32

| 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 |

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%.

Field ID/WIN G2SW0099

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

Site Name: Carlton Branch @ SR674

| STORET STATION NUMBER: see sticker | DATE (MM/DD/YY): 3-13-19 | SAMPLING AGENCY: FDEP SWROC |
|---|---|---|
| FIELD ID/NAME: see sticker | LOCATION: | COUNTY: HILLS. |
| | | RECEIVING BODY OF WATER: |

| 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** ~~8~~ 5 | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 ~~8~~ 7 6 | (5) 4 3 2 1 |
| **Substrate Availability** 8 | Greater than 30% major productive habitat present at site<br>20 19 18 17 16 | 16% to 30% major productive habitat, by aerial extent<br>15 14 13 12 11 | 6% to 15% major productive habitat<br>10 9 (8) 7 6 | Less than 5% major productive habitat<br>5 4 3 2 1 |
| **Water Velocity** 16 | Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec<br>≥0.33 0.31 0.29 0.27 >0.25<br>20 19 18 17 (16) | Max. observed at typical transect: >0.1 to 0.25 m/sec<br>0.25 0.21 0.17 0.13 >0.1<br>15 14 13 12 11 | Max. observed at typical transect: 0.05 to 0.1 m/sec<br>0.1 0.09 0.07 0.06 0.05<br>10 9 8 7 6 | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1 |
| **Habitat Smothering** 11<br>Primary Score 40 | Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.<br>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.<br>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).<br>10 9 8 7 6 | Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.<br>5 4 3 2 1 |
| Secondary Habitat Components<br>**Artificial Channelization** 19 | Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.<br>20 (19) 18 17 16 | Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.<br>15 14 13 12 11 | Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.<br>10 9 8 7 6 | Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.<br>5 4 3 2 1 |
| **Bank Stability**<br>Right Bank 8<br>Left Bank 8 | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.<br>10 9 | Only meets 2 of the 3 requirements for optimal bank stability.<br>(8) 7 6 | Only meets 1 of the 3 requirements for optimal bank stability.<br>5 4 | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.<br>3 2 1 |
| **Riparian Buffer Zone Width**<br>Right Bank 10<br>Left Bank 10 | Width of vegetation greater than 18 m<br>10 9 | Width of vegetation >12 to 18m<br>8 7 6 | Width of vegetation 6 to 12 m. human activities close to system<br>5 4 | Less than 6 m of buffer zone due to intensive human activities<br>3 2 1 |
| **Riparian Zone Vegetation Quality**<br>Right Bank 5<br>Left Bank 5<br>Secondary Score 65 | 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.<br>10 9 | >50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.<br>8 7 6 | 25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.<br>5 4 | Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).<br>3 2 1 |

105 **TOTAL SCORE**

| Date: 3-13-19 | Analyst: JUDY ASHTON, BEN PASWATER, SARAH MEYER | Signature |
|---|---|---|

**Request Number: RQ-2019-03-11-32**

SCI Kit

# Florida Department of Environmental Protection
## Central Laboratory Submittal Form



last revised Jan 25, 2018

**Customer: SW-DIST**

**Project ID: SMP**

Requester: Benjamin Paswater

Collected By:

Field Report Prepared By

Sampling Agency

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location<br>Field ID/WIN G2SW0099<br>Site Name: Carlton Branch @ SR674 | | ☐ Comp<br>☒ Grab | Collection (comp begin or grab)<br>Date 3-13-19 Time 1130 | Eastern<br>Central | Composite end<br>Date | Time | | Bottle Group(s) (See pg 2)<br>A/B | | |
| Field ID | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen<br>8.75 | ☒ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | |
| WIN/ST | | Temp (C)<br>20.11 | pH<br>5.57 | Sample Depth<br>0.1 | ☐ ft<br>☒ m | Sp. Conductance (umho/cm)<br>276 | | | | |
| Latitude ☐ dd ☐ dms | | Salinity (ppt)<br>0.13 | Comments<br>E. coli droppes off @ ALL | | | | | | | |
| Location<br>Field ID/WIN G2SW0101<br>Site Name: Alderman Creek @ Mosaic | | ☐ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date Time | Eastern<br>Central | Composite end<br>Date | Time | | Bottle Group(s) | | |
| Field | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | |
| WIN | | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ m | Sp. Conductance (umho/cm) | | | | |
| Latit ☐ dd ☐ dms | | Salinity (ppt) | Comments<br>E. coli droppes off @ ALL | | | | | | | |
| Location | | ☐ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date Time | Eastern<br>Central | Composite end<br>Date | Time | | Bottle Group(s) | | |
| Field ID | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | |
| WIN/STORET # | | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ m | Sp. Conductance (umho/cm) | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | | | |
| Location | | ☐ Comp<br>☐ Grab | Collection (comp begin or grab)<br>Date Time | Eastern<br>Central | Composite end<br>Date | Time | | Bottle Group(s) | | |
| Field ID | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L<br>☐ % sat | Total Res. Chlorine (mg/L) | | | | |
| WIN/STORET # | | Temp (C) | pH | Sample Depth | ☐ ft<br>☐ m | Sp. Conductance (umho/cm) | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | | | |

| Relinquished By: | Date/Time | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
|---|---|---|---|---|---|
| Judy Ashton | 3-13-19 1700 | FED EX | 1 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group: A | Bottle Type: ALKALINITY, TURBIDITY, W-CL-IC, W-COLOR, W-F, W-SO4-IC, W-TDS, W-TSS | P-1L | # of Bottles: 2 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 1 |
| Group: A | Bottle Type: CHLSUITE-W | BP-1L | # of Bottles: 2 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 1 |
| Group: A | Bottle Type: W-E8321-DI, W-E8321-MS | BG-500ML | # of Bottles: 2 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 1 |
| Group: A | Bottle Type: W-ICP, W-ICPMS | P-500ML | # of Bottles: 2 | Preservative: | HNO3 | Enter Number of Bottles Sent to Lab | 1 |
| Group: A | Bottle Type: W-NH3, W-NO2NO3, W-S-A-TP, W-TKN, W-TOC | P-500ML | # of Bottles: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
| Group: A | Bottle Type: W-PO4-F | P-125ML | # of Bottles: 2 | Preservative: | FILTER-ICE | Enter Number of Bottles Sent to Lab | 1 |
| Group: A | Bottle Type: W-PSNP-TQ | BG-1L | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 4 |
| Group: B | Bottle Type: ALGAL_ID | PT-50ML | # of Bottles: 2 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 0 |
| Group: B | Bottle Type: MI-FW-QLDC | PJ-2L | # of Bottles: 4 | Preservative: | Formalin | Enter Number of Bottles Sent to Lab | 2 |

GROUP B P-120ML-WC-TH1 SWD-AEL-E-COCI # SENT TO AEL 1

Advanced Environmental Laboratories, Inc.

☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
☐ **Jacksonville:** 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
☐ **Tallahassee:** 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
☑ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

| | |
|---|---|
| Client Name: FDEP SW Dist. | Project Name: SMP |
| Address: 13051 N. Telecom Pkwy. Temple Terrace FL 33637 | P.O. Number: B370AE |
| Phone: 813-470-5770 | Project Address: |
| Contact: Judy Ashton 813-470-5772 | Special Instructions: RQ-2019-03-11-32 |
| Sampled By: | |
| Turn Around Time: ☑ STANDARD ☐ RUSH | |
| Page: of | ☐ ADaPT ☐ EQuIS ☐ Other |

| SAMPLE ID | SAMPLE DESCRIPTION | Grab / Comp | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. COUNT | PRESERVATION | BOTTLE SIZE & TYPE | Analysis Required | LABORATORY I.D. # |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field ID/WIN G2SW0099 Site Name: Carlton Branch @ SR674 | | 3/13/19 | 1130 | SW | 1 | ICE | 1 | E. Coli | |
| | Field ID/WIN ~~G2SW0101~~ Site Name: Alderman Creek @ Mosaic | | | | | | | | | |

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked

Temperature when received _____ (in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

| | Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|---|
| 1. | Judy Ashton | 3-13-19 | | | 3-13-19 | 1415 |

FOR DRINKING WATER USE:

PWS ID: