



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

PAGE \_\_\_\_ OF \_\_\_\_

Data Qualified?  
Yes / No

STORET Station Name: Little Jones Creek @ DS of Loop Rd Bridge

Date: 03/21/2016

(mm/dd/yyyy)

STORET Station ID: G4CE0024

Latitude: 28.8426

(Decimal Degrees)

WBID: 1344

RQ - 2016-02-29-46 NA

ORG ID: 21FLCEN

Longitude: -82.1304

(Decimal Degrees)

Receiving Body of Water: Lake Pan

Field ID: G4CE0024

County: Sumter

| Sampling Team Members |  |  |  |  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-----------------------|--|--|--|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Mike Linger           |  |  |  |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Terry Riordan         |  |  |  |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
|                       |  |  |  |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
|                       |  |  |  |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

| Sampling Equipment                                   |                                   |                               |
|------------------------------------------------------|-----------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe  |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other    |                               |
| Equipment ID                                         |                                   |                               |

| Collection Method                              |                                         |
|------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Wading                | <input type="checkbox"/> Via Boat       |
| <input checked="" type="checkbox"/> From Shore | <input type="checkbox"/> Canoe/Kayak    |
| <input type="checkbox"/> Other (note below)    | <input type="checkbox"/> Electric Motor |
|                                                | <input type="checkbox"/> Gasoline Motor |

| Water Level: Dry / Low / <u>Normal</u> / High / Flooded |              |                  |                         |            |           | Matrix: <u>Fresh</u> / Marine / DI |                |                 |                    |             |
|---------------------------------------------------------|--------------|------------------|-------------------------|------------|-----------|------------------------------------|----------------|-----------------|--------------------|-------------|
| Meter ID# <u>11C / 11E</u>                              |              |                  | Photos: Yes / <u>No</u> |            |           | Tide Falling: Yes / No / <u>NA</u> |                |                 |                    |             |
| Time Zone                                               | Time         | Sample Depth (m) | Total Depth (m)         | DO (mg/L)  | DO (%SAT) | pH                                 | Salinity (ppt) | Secchi Disk (m) | Sp COND (µmhos/cm) | Temp. (C°)  |
| <u>EST</u>                                              | <u>13:23</u> | <u>0.3</u>       | <u>0.8</u>              | <u>5.6</u> | <u>59</u> | <u>7.3</u>                         | <u>0.18</u>    | <u>0.8 (s)</u>  | <u>369</u>         | <u>18.1</u> |
| CEN                                                     |              |                  |                         |            |           |                                    |                |                 |                    |             |

| Biological Samples Collected: None <u>HA</u> SCI <u>LVS</u> <u>RPS</u> LVI Other |                                                                                                                                     |  |  |  |  |                                                                                   |                |                |                                        |  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|-----------------------------------------------------------------------------------|----------------|----------------|----------------------------------------|--|
| Parameter Suite                                                                  | Parameter Methods                                                                                                                   |  |  |  |  | Preservation                                                                      | Acid Lot#      | Expiration     | pH Check                               |  |
| Preserved Nutrients                                                              | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                     |  |  |  |  | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <u>5259020</u> | <u>9/16/16</u> | <input checked="" type="checkbox"/> <2 |  |
| Metals                                                                           | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                     |  |  |  |  | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3                        |                |                | <input type="checkbox"/> <2            |  |
| Filtered Nutrients                                                               | <input checked="" type="checkbox"/> W-P04-F <input type="checkbox"/> Field Filtered 0.45 µm Filter                                  |  |  |  |  | <input checked="" type="checkbox"/> Ice                                           |                |                |                                        |  |
| Chlorophyll                                                                      | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                      |  |  |  |  | <input checked="" type="checkbox"/> Ice                                           |                |                |                                        |  |
| BOD                                                                              | <input checked="" type="checkbox"/> BOD-UNIN                                                                                        |  |  |  |  | <input checked="" type="checkbox"/> Ice                                           |                |                |                                        |  |
| Physical/Aggregate (Kit A/C)                                                     | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS                     |  |  |  |  | <input checked="" type="checkbox"/> Ice                                           |                |                |                                        |  |
| Physical/Aggregate (Kit B/D)                                                     | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                       |  |  |  |  | <input type="checkbox"/> Ice                                                      |                |                |                                        |  |
| Macroinvertebrates                                                               | <input type="checkbox"/> MI-FW-QLDC                                                                                                 |  |  |  |  | <input type="checkbox"/> Formalin                                                 |                |                |                                        |  |
| Microbiology                                                                     | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococcus <input type="checkbox"/> QPCR |  |  |  |  | <input type="checkbox"/> Ice                                                      |                |                |                                        |  |
| Periphyton                                                                       | <input type="checkbox"/> ALGAE-ID                                                                                                   |  |  |  |  | <input type="checkbox"/> Ice                                                      |                |                |                                        |  |
| Pesticides                                                                       | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R                          |  |  |  |  | <input type="checkbox"/> Ice                                                      |                |                |                                        |  |
|                                                                                  | <input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH                            |  |  |  |  | <input type="checkbox"/> Other                                                    |                |                |                                        |  |

Notes:

9-3-24

RQ-2016-02-29-46 NA  
Date: 03/21/16  
Time: 4:5

G4CE0024  
Field ID ↑  
STORET ↓  
G4CE0024

Signature:

Date:

3/21/16

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

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

SAMPLE ID \_\_\_\_\_ ORG ID \_\_\_\_\_ LATITUDE \_\_\_\_\_  
 COUNTY Sumter STORET # 64CE0024 LONGITUDE \_\_\_\_\_  
 DATE 3/21/16 TIME 1300 SAMPLING AGENCY FDEP CE Roc  
 SITE NAME Little Jones Creek Q OS of Loop Rd Bridge  
 FIELD ID/NAME 64CE0024 RECEIVING BODY OF WATER Lake Panasoffkee

**RIPARIAN ZONE / STREAM FEATURES**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |                                                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industry <input type="checkbox"/> Other (Specify) <input type="checkbox"/><br><u>100</u> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | <b>Landscape Development Intensity Index (LDI)</b><br> |  |
| Local Watershed Erosion (select one): <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                                                                                                                                                                   |  |  |  | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br><div style="display: flex; justify-content: space-around;"> <div>                     Width of Riparian Vegetation (m) on Each Buffer Side<br/>                     Left Bank: <u>&gt;18</u> Right Bank: <u>&gt;18</u> </div> <div>                     Hydrologic Modification Score (per FT 3101)<br/> <u>13</u> </div> </div> |  |  |                                                        |  |
| High Water Mark: <u>0.3</u> + <u>0.4</u> = <u>0.7</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  | Artificially Impounded <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                       |  |  |                                                        |  |
| Artificially <input checked="" type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous<br>Channelized: <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | Canopy Cover % <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)<br><input checked="" type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%)                                                                                                                                                                                            |  |  |                                                        |  |

**SEDIMENT / SUBSTRATE**

| <b>Sediment Oils</b><br><input checked="" type="checkbox"/> Absent <input type="checkbox"/> Slight<br><input type="checkbox"/> Moderate <input type="checkbox"/> Profuse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                     | <b>Sediment Odors</b><br><input checked="" type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum<br><input type="checkbox"/> Chemical <input type="checkbox"/> Anaerobic<br><input type="checkbox"/> Other (Specify): _____ |                          |                           | <b>Smothering of Substrates</b><br>Sand Smothering: None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/><br>Silt Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input checked="" type="checkbox"/><br>Algae Smothering: None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------|--------------------------|-------------------------------------|--------------------------|--------------------------|-----------------|--------------------------|--------------------------|-------------------------------------|--------------------------|------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------|--|--|--|-------------|--|--|--|-------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|------------|---------|-------------|--------------|-----------------|----------------|------------|------|------------|-------------|------------|------------|-----------|------------|-------------|----------------|------|--|--|--|--|--|--|--|-----------------------------------------|--------|--|--|--|--|--|--|--|--|
| <b>SUBSTRATE TYPE</b><br>Assessment Tool: <input type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input checked="" type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon<br><table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>% Coverage</th> <th>INVERT<br/># Times Sampled</th> <th>PERI<br/># Times Sampled</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td><u>0.9</u></td> <td></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>0</u></td> <td></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat .....</td> <td><u>0.7</u></td> <td></td> <td></td> </tr> <tr> <td>Aquatic Vegetation .....</td> <td><u>0.6</u></td> <td></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand.....</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mud / Muck / Silt .....</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other .....</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other .....</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |                                     |                                     |                                                                                                                                                                                                                                                                   | % Coverage               | INVERT<br># Times Sampled | PERI<br># Times Sampled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Woody Debris (Snags) | <u>0.9</u>                              |                          |                          | Undercut Banks / Roots              | <u>0</u>                 |       |                          | Leaf Packs or Mat .....             | <u>0.7</u>               |                          |                 | Aquatic Vegetation ..... | <u>0.6</u>               |                                     |                          | Rock or Shell Rubble.. |                                     |                          |                          | Sand.....                |                                                                                                                                                                                                        |  |  | Mud / Muck / Silt ..... |  |  |  | Other ..... |  |  |  | Other ..... |  |  |  | <b>WATER QUALITY</b><br><table border="1" style="width:100%; border-collapse: collapse;"> <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>0.3</u></td> <td><u>18.1</u></td> <td><u>7.3</u></td> <td><u>5.6</u></td> <td><u>59</u></td> <td><u>369</u></td> <td><u>0.18</u></td> <td><u>0.8 (s)</u></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/> VOB</td> </tr> <tr> <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>11C / 11E</u> TOTAL DEPTH <u>0.8</u> |  |  |  | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat (%) | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M) | Top: | <u>0.3</u> | <u>18.1</u> | <u>7.3</u> | <u>5.6</u> | <u>59</u> | <u>369</u> | <u>0.18</u> | <u>0.8 (s)</u> | Mid: |  |  |  |  |  |  |  | <input checked="" type="checkbox"/> VOB | Bottom |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | % Coverage                          | INVERT<br># Times Sampled           | PERI<br># Times Sampled                                                                                                                                                                                                                                           |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Woody Debris (Snags)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>0.9</u>                          |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Undercut Banks / Roots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>0</u>                            |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Leaf Packs or Mat .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>0.7</u>                          |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Aquatic Vegetation .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>0.6</u>                          |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Rock or Shell Rubble..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Sand.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Mud / Muck / Silt .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Depth (M)                           | Temp. (°C)                          | pH (SU)                                                                                                                                                                                                                                                           | D.O. (MG/L)              | D.O. Sat (%)              | Cond. (UMHO/CM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Salinity (PPT)       | SECCHI (M)                              |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Top:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>0.3</u>                          | <u>18.1</u>                         | <u>7.3</u>                                                                                                                                                                                                                                                        | <u>5.6</u>               | <u>59</u>                 | <u>369</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>0.18</u>          | <u>0.8 (s)</u>                          |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Mid:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      | <input checked="" type="checkbox"/> VOB |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| <b>Water Odors</b> Normal <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/><br>Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                     | <b>Water Surface Oils</b> Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globbs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/>                                                              |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Water Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     | <b>Color</b> Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) <input type="checkbox"/>                                                                                         |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Algae Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     | <b>Clarity</b> Clear <input checked="" type="checkbox"/> Slightly Turbid <input type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>                                                                                              |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| <b>ABUNDANCE</b><br><table border="1" style="width:100%; border-collapse: collapse;"> <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><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fish:</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Aquatic Plants:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Iron/Sulfur Bacteria:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                   |                                     |                                     |                                                                                                                                                                                                                                                                   | Not Obs.                 | Rare                      | Common                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Abundant             | Periphyton:                             | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Fish: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Aquatic Plants: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Iron/Sulfur Bacteria:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) <input type="checkbox"/> |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not Obs.                            | Rare                                | Common                                                                                                                                                                                                                                                            | Abundant                 |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Periphyton:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/>                                                                                                                                                                                                                               | <input type="checkbox"/> |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Fish:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                          | <input type="checkbox"/> |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Aquatic Plants:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/>                                                                                                                                                                                                                               | <input type="checkbox"/> |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| Iron/Sulfur Bacteria:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>                                                                                                                                                                                                                                          | <input type="checkbox"/> |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |
| <b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><u>60 s sunny</u><br><input type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                     |                                                                                                                                                                                                                                                                   |                          |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                         |                          |                          |                                     |                          |       |                          |                                     |                          |                          |                 |                          |                          |                                     |                          |                        |                                     |                          |                          |                          |                                                                                                                                                                                                        |  |  |                         |  |  |  |             |  |  |  |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |            |             |                |      |  |  |  |  |  |  |  |                                         |        |  |  |  |  |  |  |  |  |

**SAMPLING TEAM** Mike Linger, Terry Riordan **SIGNATURE:** [Signature] **DATE:** 3/21/16

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

|                                         |                          |                                                               |                                    |                                                  |
|-----------------------------------------|--------------------------|---------------------------------------------------------------|------------------------------------|--------------------------------------------------|
| SAMPLING AGENCY:<br><b>CEROC - FDEP</b> |                          | STORET STATION NUMBER:<br><b>G4CE0024</b>                     | DATE (MM/DD/YY):<br><b>3/21/16</b> | RECEIVING BODY OF WATER:<br><b>Panacea Creek</b> |
| REMARKS:                                | COUNTY:<br><b>Sumter</b> | LOCATION:<br><b>Little Jones Creek @ OS of Loop Rd Bridge</b> | FIELD ID/NAME: <b>G4CE0024</b>     |                                                  |

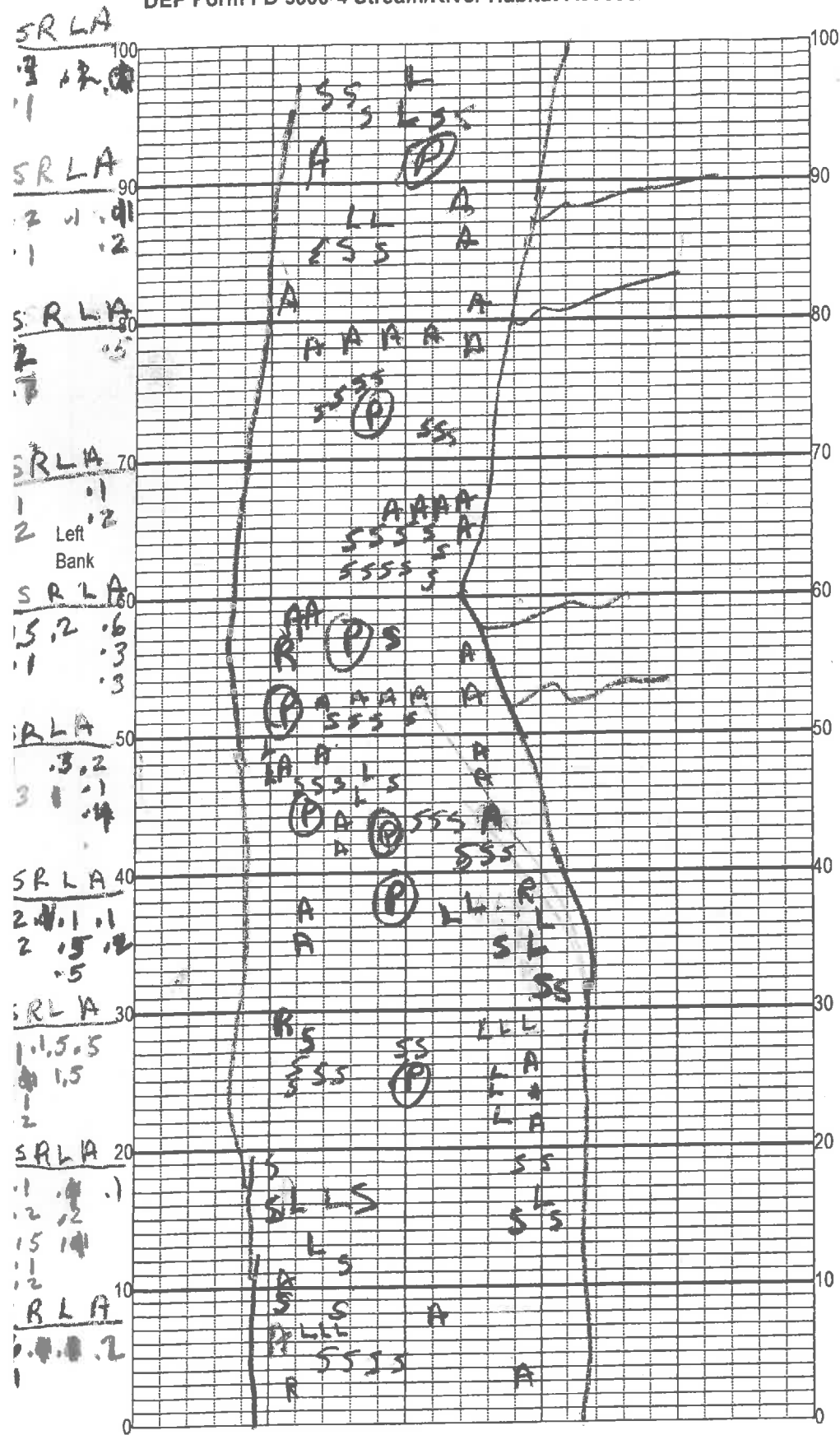
| Habitat Parameter                                                                                            | Optimal                                                                                                                                                                                                                   | 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>3</u>                                                                              | 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 <u>3</u> 2 1                                                                          |
| Water Velocity <u>12</u>                                                                                     | 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 <u>12</u> 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 <u>11</u><br>Primary Score <u>37</u>                                                      | 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 <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).<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                                                                                 | 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>20</u>                                                                          | <u>20</u> 19 18 17 16                                                                                                                                                                                                     | 15 14 13 12 11                                                                                                                                                          | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Bank Stability<br>Right Bank <u>10</u><br>Left Bank <u>10</u>                                                | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.<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 <u>10</u><br>Left Bank <u>10</u>                                    | 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 <u>10</u><br>Left Bank <u>10</u><br>Secondary Score <u>80</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.<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 |

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**TOTAL SCORE**

|                      |                                               |                                                                                                  |
|----------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------|
| Date: <b>3-21-16</b> | Analyst: <b>Terry R. Riddle / Mike Linger</b> | Signature:  |
|----------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------|

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).

62-160.800, F.A.C

S R L A  
6.6 .5 5.1 4.2

Location: Little Jones Crk  
Date: 3-21-16  
Sampler: Terry R. & Mike L.

|                                                                                                                         |                                                         |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 100 m: Latitude _____                                                                                                   | Longitude _____                                         |
| 0 m: Latitude _____                                                                                                     | Longitude _____                                         |
| Substrates: Code key, draw proportionate habitat abundance. %                                                           |                                                         |
| <u>S</u> Snags                                                                                                          | <u>0.9</u>                                              |
| <u>R</u> Roots/undercut banks                                                                                           | <u>0.0</u>                                              |
| <u>L</u> Leaf Packs (or mats)                                                                                           | <u>0.7</u>                                              |
| <u>A</u> Aquatic Macrophytes                                                                                            | <u>0.6</u>                                              |
| <u>P</u> Pools                                                                                                          | total # observed = <u>8</u><br># range expected = _____ |
| Average width <u>7.5</u> m                                                                                              |                                                         |
| Average depth <u>4</u> m                                                                                                |                                                         |
| Velocity measured at <u>7s/m</u> meter mark.                                                                            |                                                         |
| WQ & chemistry taken at _____ meter mark.                                                                               |                                                         |
| Habitat Smothering: <u>*</u><br>Note areas (on map) where sand or silt is smothering substrates, limiting habitability. |                                                         |
| Bank Stability:<br>Note areas (on map) with unstable, eroding banks.                                                    |                                                         |
| Riparian Buffer Width:<br>Note areas (on map) where natural vegetation is altered or eliminated.                        |                                                         |

Plants observed / other notes:  
\* - severe smothering  
Lily  
Ludwigia repens  
Pentstemon  
Occidentalis  
Saururus  
Unknown - Byro? submerged  
Hyacinth  
Cicuta  
Watercress  
Puckweed  
Najas  
Carex sp.

Revision Date: March 1, 2014

Storet Number: 64CE0024

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m<sup>2</sup> 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.

[illegible]



# DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Little Jones Creek P. DS of Loop Rd Bridge County: Sumter Date: 3/21/16 Investigators: Mike Lingor

STORET Station Number: 64CE0024

| Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover | Transect (m)                                                                                                                                                                                     | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover |
|--------------|----------------------------|----------------------------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------|--------------|
| 0            | 1                          | 4                                |           | 72           | 60                                                                                                                                                                                               | 1                          | N                                |           | 92           |
|              | 2                          | 4                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 3                          | N                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 4                          | N                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 5                          | N                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 6                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 7                          | N                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 8                          | N                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 9                          | 5                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
| 10           | 1                          | 5                                |           | 80           | 70                                                                                                                                                                                               | 1                          | N                                |           | 88           |
|              | 2                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 3                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 4                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 5                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 6                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 7                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 8                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 9                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
| 20           | 1                          | 2                                |           | 84           | 80                                                                                                                                                                                               | 1                          | 3                                |           | 84           |
|              | 2                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 3                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 4                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 5                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 6                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 7                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 8                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 9                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
| 30           | 1                          | 2                                |           | 68           | 90                                                                                                                                                                                               | 1                          | 2                                |           | 76           |
|              | 2                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 3                          | 4                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 4                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 5                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 6                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 7                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 8                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 9                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
| 40           | 1                          | 3                                |           | 84           | 100                                                                                                                                                                                              | 1                          | 2                                |           | 72           |
|              | 2                          | 4                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 3                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 4                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 5                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 6                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 7                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 8                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 9                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
| 50           | 1                          | 3                                |           | 76           | 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. |                            |                                  |           |              |
|              | 2                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 3                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 4                          | 2                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 5                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 6                          | 3                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 7                          | 4                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 8                          | 4                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              | 9                          | N                                |           |              |                                                                                                                                                                                                  |                            |                                  |           |              |
|              |                            |                                  |           |              | 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 0.8m  
Estimated?

# points ranked 4-6 10  
total points assessed 99  
% points ranked 4-6 10

Check accompanying data collected at same site/date.  
Algal mat sample   
Linear Veg Survey X  
Habitat Assessment X  
SCI/Biorecon   
Water sample X  
RQ-2016-02-29-46

| 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                                  |