



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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

#00128

STORET Station Name: Vn. Drain East of Eagles Nest Rd

Date: 03/02/2016  
(mm/dd/yyyy)

STORET Station ID: 27010078

Latitude: 29.73021

WBID: 2550B RQ - 2016- 02-29-59

ORG ID: 21FLA

Longitude: 81.27269  
(Decimal Degrees)

Receiving Body of Water: ICW

Field ID: \_\_\_\_\_

County: St Johns

| Sampling Team Members |                | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check | Duplicate Collection | Blank Collection |
|-----------------------|----------------|-----------------|-------------------|---------------|--------------|--------------------|----------------------|------------------|
| -                     | JEREMY PARRISH |                 |                   | X             | X            | X                  |                      |                  |
| -                     | PAT OCOMORE    |                 | X                 |               |              |                    |                      |                  |
| -                     |                |                 |                   |               |              |                    |                      |                  |
| -                     |                |                 |                   |               |              |                    |                      |                  |

| 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 checked="" type="checkbox"/> Wading  | <input type="checkbox"/> Via Boat       |
| <input 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>YSI 556</u> Photos: Yes / No               | 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°) |
|-----------|------|------------------|-----------------|-----------|-----------|------|----------------|-----------------|--------------------|------------|
| EST       | 945  | 0.05             | 0.1             | 5.2       | 53        | 7.29 | 0.17           | 0.03            | 357                | 16.6       |
| CEN       |      |                  |                 |           |           |      |                |                 |                    |            |

Biological Samples Collected: None HA SCI LVS RPS LVI Other \_\_\_\_\_

| Parameter Suite     | Parameter Methods                                                                                                                                                                                                     | Preservation                                                                                               | Acid Lot#      | Expiration     | pH Check                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------------------------------|
| Preserved Nutrients | <input checked="" type="checkbox"/> TKN / TP / Nox / NH3 / TOC <input type="checkbox"/> Other                                                                                                                         | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | <u>5259 20</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"/> HNO <sub>3</sub>                                     |                |                | <input type="checkbox"/> <2            |
| Filtered Nutrients  | <input checked="" type="checkbox"/> oP <input type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                         | <input checked="" type="checkbox"/> Ice                                                                    |                |                |                                        |
| Chlorophyll         | <input checked="" type="checkbox"/> CHL SUITE-W                                                                                                                                                                       | <input checked="" type="checkbox"/> Ice                                                                    |                |                |                                        |
| BOD                 | <input type="checkbox"/> BOD-INHB <input checked="" type="checkbox"/> BOD-UNIN                                                                                                                                        | <input checked="" type="checkbox"/> Ice                                                                    |                |                |                                        |
| Physical/Aggregate  | <input checked="" type="checkbox"/> TSS / Turbidity / Alkalinity / Color <input type="checkbox"/> Other                                                                                                               | <input checked="" type="checkbox"/> Ice                                                                    |                |                |                                        |
| Macroinvertebrates  | <input checked="" 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-HERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH | <input type="checkbox"/> Ice <input type="checkbox"/> Other                                                |                |                |                                        |

|                  |                                    |
|------------------|------------------------------------|
| Notes:           | Place Label Here<br>(If Available) |
| Signature: _____ | Date: _____                        |

Field Parameters Entered into LIMS: JP / 3/4/16 (Initials/Date) Field Parameters QC in LIMS: NF / 4/18/16 (Initials/Date)  
Date Migrated to STORET: \_\_\_\_\_ (Initials/Date) Field Sheets Scanned/Saved: JG / 4/18/16 (Initials/Date)

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

Site: UN-NAMAS DRAIN E of Eagles Nest Rd

County: St Johns

Date: 3/2/16

Investigators: R. Connor J. Parrish

STORET Station Number: 27010018

| 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                          | 23                               |           | 96           | 60           | 1                          | 23                               |           | 92           |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |
| 10           | 1                          | 23                               |           | 75           | 70           | 1                          | 23                               |           | 72           |
|              | 2                          | 4                                |           |              |              | 2                          |                                  |           |              |
|              | 3                          | 23                               |           |              |              | 3                          |                                  |           |              |
|              | 4                          | 4                                |           |              |              | 4                          |                                  |           |              |
|              | 5                          | 23                               |           |              |              | 5                          |                                  |           |              |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |
| 20           | 1                          | 23                               |           | 80           | 80           | 1                          | 23                               |           | 96           |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |
| 30           | 1                          | 23                               |           | 85           | 90           | 1                          | 23                               |           | 92           |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |
| 40           | 1                          | 23                               |           | 88           | 100          | 1                          | 23                               |           | 92           |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |
| 50           | 1                          | 23                               |           | 92           |              | 1                          | 23                               |           |              |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |

Secchi depth   
Estimated?

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

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

| Algal Thickness Rank |                                         |
|----------------------|-----------------------------------------|
| N                    | rough, no algae, slimy, algae up to 1mm |
| 3                    | >1mm - 6mm                              |
| 4                    | >6mm - 20mm                             |
| 5                    | >20mm - 10 cm                           |
| 6                    | >10 cm                                  |

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.  
Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.  
Record canopy cover as the number of small densimeter 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%.

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

SAMPLE ID \_\_\_\_\_ ORG ID \_\_\_\_\_ LATITUDE \_\_\_\_\_  
 COUNTY St Johns STORET # 27010078 LONGITUDE \_\_\_\_\_  
 DATE 3/2/16 TIME 0945 SAMPLING AGENCY DEAR NEB ROC  
 SITE NAME UN-N/Amco/Drake E. of Englos Most Rd  
 FIELD ID/NAME \_\_\_\_\_ RECEIVING BODY OF WATER ICW

## RIPARIAN ZONE / STREAM FEATURES

Meter ID: YSI 556 #1

|                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                                                                                                                                                                                              |  |  |                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------|
| <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"/> |  |  |  |                                                                                                                                                                                                              |  |  | <b>Landscape Development Intensity Index (LDI)</b><br><input type="checkbox"/>                       |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                      |  |  |  |                                                                                                                                                                                                              |  |  | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br>1-2 m wide<br>0.17 m/s<br>0.1 m deep |
| <b>Width of Riparian Vegetation (m) on Each Buffer Side</b><br>Left Bank: <u>&gt;18m</u> Right Bank: <u>&gt;18m</u>                                                                                                                                                                                                                                                                                     |  |  |  | <b>Hydrologic Modification Score</b> (per FT 3101) <input type="checkbox"/>                                                                                                                                  |  |  |                                                                                                      |
| <b>High Water Mark:</b> <u>0.6</u> + <u>0.1</u> = <u>0.6</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                             |  |  |  | <b>Artificially Impounded</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                         |  |  |                                                                                                      |
| <b>Artificially</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous<br><b>Channelized:</b> <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                                                                                                                                |  |  |  | <b>Canopy Cover %</b> <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 type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe <input type="checkbox"/><br>Silt Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe <input 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 checked="" type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon                                                                                                                                                                                                                                                                                                                                                          |             | <b>WATER QUALITY</b><br><table border="1"> <thead> <tr> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>NB</u></td> </tr> <tr> <td>Mid:</td> <td><u>0.05</u></td> <td><u>16.6</u></td> <td><u>7.3</u></td> <td><u>5.2</u></td> <td><u>53</u></td> <td><u>0.17</u></td> <td><u>0.1</u></td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | Depth (M)      | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat (%) | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M) | Top: |  |  |  |  |  |  | <u>NB</u> | Mid: | <u>0.05</u> | <u>16.6</u> | <u>7.3</u> | <u>5.2</u> | <u>53</u> | <u>0.17</u> | <u>0.1</u> | Bottom: |  |  |  |  |  |  |  |
| Depth (M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Temp. (°C)  | pH (SU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | D.O. (MG/L) | D.O. Sat (%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M) |         |             |              |                 |                |            |      |  |  |  |  |  |  |           |      |             |             |            |            |           |             |            |         |  |  |  |  |  |  |  |
| Top:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                | <u>NB</u>  |         |             |              |                 |                |            |      |  |  |  |  |  |  |           |      |             |             |            |            |           |             |            |         |  |  |  |  |  |  |  |
| Mid:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>0.05</u> | <u>16.6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>7.3</u>  | <u>5.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>53</u>       | <u>0.17</u>    | <u>0.1</u> |         |             |              |                 |                |            |      |  |  |  |  |  |  |           |      |             |             |            |            |           |             |            |         |  |  |  |  |  |  |  |
| Bottom:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                |            |         |             |              |                 |                |            |      |  |  |  |  |  |  |           |      |             |             |            |            |           |             |            |         |  |  |  |  |  |  |  |
| Woody Debris (Snags) <u>6</u> <u>5</u> <u>-</u><br>Undercut Banks / Roots <u>6</u> <u>5</u> <u>-</u><br>Leaf Packs or Mat ..... <u>6</u> <u>5</u> <u>-</u><br>Aquatic Vegetation ..... <u>0</u> <u></u> <u></u><br>Rock or Shell Rubble.. <u>0</u> <u></u> <u></u><br>Sand..... <u>85</u> <u>5</u> <u></u><br>Mud / Muck / Silt ..... <u>3</u> <u></u> <u></u><br>Other ..... <u>-</u> <u></u> <u></u><br>Other ..... <u>-</u> <u></u> <u></u>                                                                                                                                    |             | <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"/><br><b>Water Odors</b> Normal <input type="checkbox"/> Petroleum <input type="checkbox"/><br>Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/><br><b>Water Sample Taken?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><b>Sample Preserved?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: <u>5259 20</u> Exp: <u>9-16-16</u><br><b>Algae Sample Taken?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><b>Sample Preserved?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Lot Number: _____ Exp: _____ |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                |            |         |             |              |                 |                |            |      |  |  |  |  |  |  |           |      |             |             |            |            |           |             |            |         |  |  |  |  |  |  |  |
| <b>ABUNDANCE</b><br>Not Obs. Rare Common Abundant<br>Periphyton: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Fish: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/><br>Aquatic Plants: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Iron/Sulfur Bacteria: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> |             | <b>Water Surface Oils</b> Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/><br><b>Color</b> Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) <input type="checkbox"/><br><b>Clarity</b> Clear <input checked="" type="checkbox"/> Slightly Turbid <input type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                |            |         |             |              |                 |                |            |      |  |  |  |  |  |  |           |      |             |             |            |            |           |             |            |         |  |  |  |  |  |  |  |

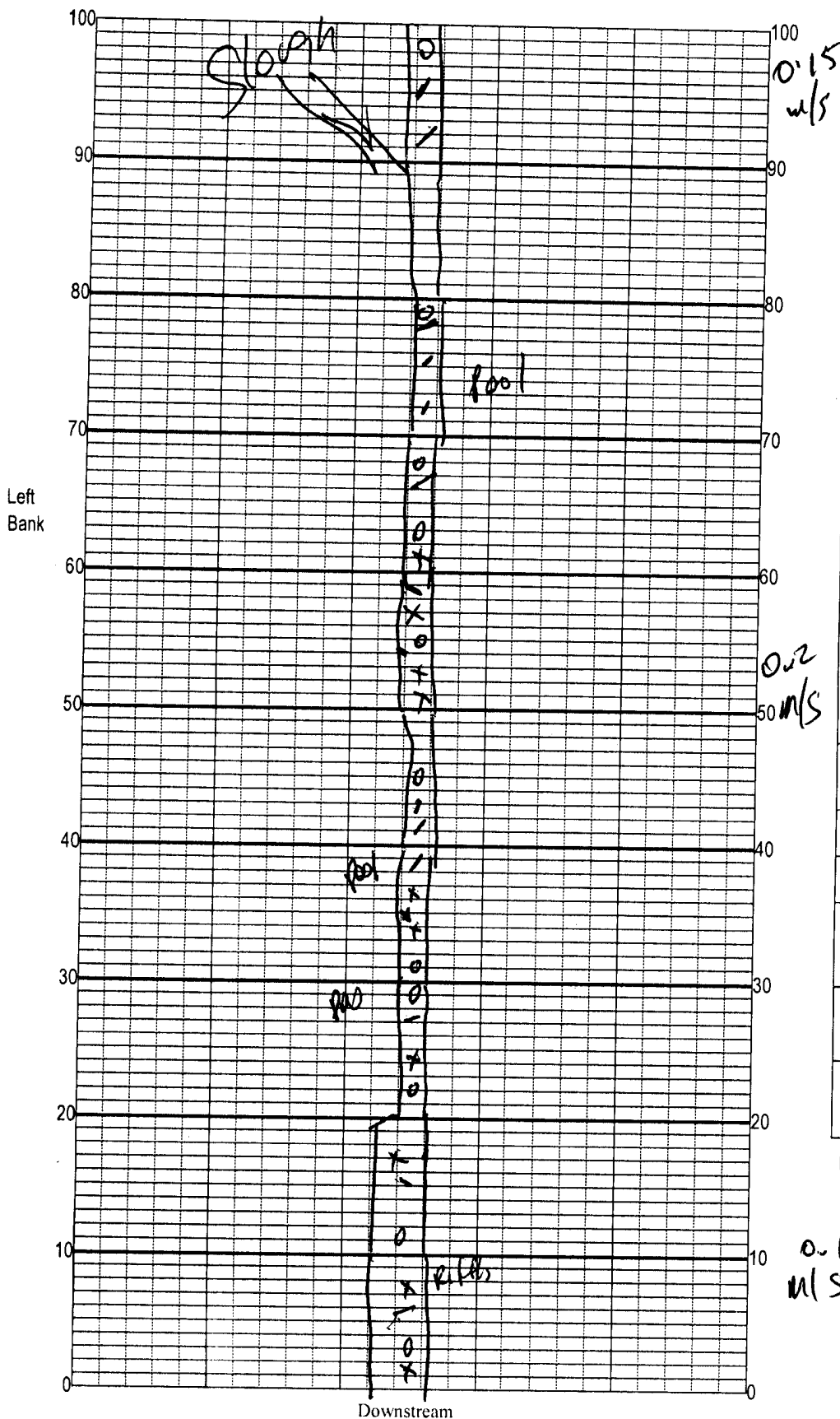
**AMBIENT FIELD CONDITIONS / NOTES:** Overcast Low flow  
W B/D #2550B  
 Hydrologic Disturbance Scoring ☐ 1-2 ☐ 3-4 ☐ 5-6 ☐ 7-8 ☐ 9-10  
☐ The antecedent hydrologic conditions have been met to my best knowledge.

## SAMPLING TEAM

S Parrish, P O'Connor

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).

Location: JANNA/ Droad  
E. OF EA9105 Most Rd  
Date: 3/2/12  
Sampler: P O'bann

|                                                                                                                |                                                      |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 100 m: Latitude _____                                                                                          | Longitude _____                                      |
| 0 m: Latitude _____                                                                                            | Longitude _____                                      |
| Substrates: Code key, draw proportionate habitat abundance. %                                                  |                                                      |
| <input type="checkbox"/> Snags                                                                                 | _____ %                                              |
| <input type="checkbox"/> Roots/undercut banks                                                                  | _____ %                                              |
| <input type="checkbox"/> Leaf Packs (or mats)                                                                  | _____ %                                              |
| <input type="checkbox"/> Aquatic Macrophytes                                                                   | _____ %                                              |
| <input type="checkbox"/> _____                                                                                 | _____ %                                              |
| <input type="checkbox"/> _____                                                                                 | _____ %                                              |
| <input type="checkbox"/> Pools                                                                                 | total # observed = _____<br># range expected = _____ |
| Average width _____ m                                                                                          |                                                      |
| Average depth _____ m                                                                                          |                                                      |
| Velocity measured at _____ meter mark.                                                                         |                                                      |
| WQ & chemistry taken at _____ meter mark.                                                                      |                                                      |
| Habitat Smothering:<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:

0.15 w/s  
6% Leaf  
6% Root  
6% SNAG

# 75813 SB10 #

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

|                                         |                                            |                                                         |                                        |
|-----------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------|
| SAMPLING AGENCY:<br><b>DEAR NED ROC</b> | STORET STATION NUMBER:<br><b>2701 0075</b> | DATE (MM/DD/YY):<br><b>3/2/11</b>                       | RECEIVING BODY OF WATER:<br><b>ICW</b> |
| REMARKS:                                | COUNTY:<br><b>ST JOHNS</b>                 | LOCATION:<br><b>UN-Named Drain E. of Eagles Nest Rd</b> | FIELD ID/NAME:                         |

| Habitat Parameter                                                | Optimal                                                                                                                                                                                                                   | Suboptimal                                                                                                                                                              | Marginal                                                                                                                                          | Poor                                                                                                                               |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Primary Habitat Components                                       | Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)                                                                                              | Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)                                                      | Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed                                               | One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered                                 |
| Substrate Diversity <b>11</b>                                    | 20 19 18 17 16                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                                                          | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Substrate Availability <b>12</b>                                 | Greater than 30% major productive habitat present at site<br>20 19 18 17 16                                                                                                                                               | 16% to 30% major productive habitat, by aerial extent<br>15 14 13 12 11                                                                                                 | 6% to 15% major productive habitat<br>10 9 8 7 6                                                                                                  | Less than 5% major productive habitat<br>5 4 3 2 1                                                                                 |
| Water Velocity <b>13</b>                                         | Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec<br>≥0.33 0.31 0.29 0.27 >0.25<br>20 19 18 17 16                                                                                                            | Max. observed at typical transect: >0.1 to 0.25 m/sec<br>0.25 0.21 0.17 0.13 >0.1<br>15 14 13 12 11                                                                     | Max. observed at typical transect: 0.05 to 0.1 m/sec<br>0.1 0.09 0.07 0.06 0.05<br>10 9 8 7 6                                                     | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1           |
| Habitat Smothering <b>13</b><br>.....<br>Primary Score <b>49</b> | Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.<br>20 19 18 17 16                                                                                         | Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae.<br>15 14 13 12 11                                       | Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth).<br>10 9 8 7 6                | Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.<br>5 4 3 2 1                                 |
| Secondary Habitat Components                                     | 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 <b>20</b>                              | 20 19 18 17 16                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                                                          | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Bank Stability                                                   | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.<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               |
| Right Bank <b>5</b><br>Left Bank <b>5</b>                        |                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                    |
| Riparian Buffer Zone Width                                       | 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                                                            |
| Right Bank <b>10</b><br>Left Bank <b>10</b>                      |                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                    |
| Riparian Zone Vegetation Quality                                 | Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance.<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 |
| Right Bank <b>10</b><br>Left Bank <b>10</b>                      |                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                    |
| Secondary Score <b>70</b>                                        |                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                    |

TOTAL SCORE

119

|                     |                         |                               |
|---------------------|-------------------------|-------------------------------|
| Date: <b>3/2/11</b> | Analyst: <b>RO Conn</b> | Signature: <b>[Signature]</b> |
|---------------------|-------------------------|-------------------------------|