

10/31/2016  
WBID 3240MStroud Creek @ SR  
78

SD103116-2

Field ID

STORET  
28020039 \*

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

|                |  |                       |           |                     |                                                   |
|----------------|--|-----------------------|-----------|---------------------|---------------------------------------------------|
| FIELD ID/NAME: |  | COUNTY:<br><u>Lee</u> | LOCATION: | DATE<br>(MM/DD/YY): | SAMPLING AGENCY:<br><br><b>FDEP South ROC</b>     |
|                |  |                       |           |                     | RECEIVING BODY OF WATER:<br><u>Caloosahatchee</u> |

| 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>14</u>                                                                                       | 20 19 18 17 16                                                                                                                                                                                                            | 15 <u>14</u> 13 12 11                                                                                                                                                                    | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Substrate Availability <u>8</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 <u>8</u> 7 6                                                                                           | Less than 5% major productive habitat<br>5 4 3 2 1                                                                                 |
| Water Velocity <u>13</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 <u>13</u> 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 <u>8</u><br>-----<br>Primary Score <u>43</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 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 <u>8</u> 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>19</u>                                                                                 | 20 <u>19</u> 18 17 16                                                                                                                                                                                                     | 15 14 13 12 11                                                                                                                                                                           | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Bank Stability<br>Right Bank <u>9</u><br>Left Bank <u>9</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 <u>9</u> <u>RL</u>                                           | 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><u>RL</u><br><u>10</u> 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>7</u><br>Left Bank <u>7</u><br>-----<br>Secondary Score <u>71</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 <u>7</u> <u>RL</u> 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 |

TOTAL SCORE

114

|                       |                              |                                |
|-----------------------|------------------------------|--------------------------------|
| Date: <u>10/31/16</u> | Analyst: <u>Ben Pagwiter</u> | Signature: <u>Ben Pagwiter</u> |
|-----------------------|------------------------------|--------------------------------|

SD103116-2  
Field ID ▲  
STORET ▼  
28020039 \*

10/31/2016  
WBID 3240M

**Stroud Creek @ SR  
78**

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.

Revision Date: March 1, 2014



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

| County: <u>Lee</u> |                            | Investigators: <u>Murphy, Conley</u><br><u>Anderson, Asawater, Rungge, DeArth</u> |           | STORET Station Number: <u>28020039</u> |     |
|--------------------|----------------------------|-----------------------------------------------------------------------------------|-----------|----------------------------------------|-----|
| Transect (m)       | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X)                                                  | Estimated | Canopy Cover                           |     |
| 0                  | 1                          |                                                                                   |           |                                        | 60  |
|                    | 2                          |                                                                                   |           |                                        |     |
|                    | 3                          |                                                                                   |           |                                        |     |
|                    | 4                          |                                                                                   |           |                                        |     |
|                    | 5                          | N                                                                                 | N         | 82                                     |     |
|                    | 6                          |                                                                                   |           |                                        |     |
|                    | 7                          |                                                                                   |           |                                        |     |
|                    | 8                          |                                                                                   |           |                                        |     |
|                    | 9                          |                                                                                   |           |                                        |     |
| 10                 | 1                          |                                                                                   |           |                                        | 70  |
|                    | 2                          |                                                                                   |           |                                        |     |
|                    | 3                          |                                                                                   |           |                                        |     |
|                    | 4                          |                                                                                   |           |                                        |     |
|                    | 5                          | N                                                                                 | N         | 90                                     |     |
|                    | 6                          |                                                                                   |           |                                        |     |
|                    | 7                          |                                                                                   |           |                                        |     |
|                    | 8                          |                                                                                   |           |                                        |     |
|                    | 9                          |                                                                                   |           |                                        |     |
| 20                 | 1                          |                                                                                   |           |                                        | 80  |
|                    | 2                          |                                                                                   |           |                                        |     |
|                    | 3                          |                                                                                   |           |                                        |     |
|                    | 4                          |                                                                                   |           |                                        |     |
|                    | 5                          | N                                                                                 | N         | 89                                     |     |
|                    | 6                          |                                                                                   |           |                                        |     |
|                    | 7                          |                                                                                   |           |                                        |     |
|                    | 8                          |                                                                                   |           |                                        |     |
|                    | 9                          |                                                                                   |           |                                        |     |
| 30                 | 1                          |                                                                                   |           |                                        | 90  |
|                    | 2                          |                                                                                   |           |                                        |     |
|                    | 3                          |                                                                                   |           |                                        |     |
|                    | 4                          |                                                                                   |           |                                        |     |
|                    | 5                          | N                                                                                 | N         | 89                                     |     |
|                    | 6                          |                                                                                   |           |                                        |     |
|                    | 7                          |                                                                                   |           |                                        |     |
|                    | 8                          |                                                                                   |           |                                        |     |
|                    | 9                          |                                                                                   |           |                                        |     |
| 40                 | 1                          |                                                                                   |           |                                        | 100 |
|                    | 2                          |                                                                                   |           |                                        |     |
|                    | 3                          |                                                                                   |           |                                        |     |
|                    | 4                          |                                                                                   |           |                                        |     |
|                    | 5                          | N                                                                                 | N         | 87                                     |     |
|                    | 6                          |                                                                                   |           |                                        |     |
|                    | 7                          |                                                                                   |           |                                        |     |
|                    | 8                          |                                                                                   |           |                                        |     |
|                    | 9                          |                                                                                   |           |                                        |     |
| 50                 | 1                          |                                                                                   |           |                                        |     |
|                    | 2                          |                                                                                   |           |                                        |     |
|                    | 3                          |                                                                                   |           |                                        |     |
|                    | 4                          |                                                                                   |           |                                        |     |
|                    | 5                          | N                                                                                 | N         | 72                                     |     |
|                    | 6                          |                                                                                   |           |                                        |     |
|                    | 7                          |                                                                                   |           |                                        |     |
|                    | 8                          |                                                                                   |           |                                        |     |
|                    | 9                          |                                                                                   |           |                                        |     |

Secchi depth 0.4 rods  
Estimated?

# points ranked 4-6 0  
total points assessed 90  
% points ranked 4-6 0

Check accompanying data collected at same site/date.  
 Algal mat sample   
 Linear Veg Survey ✓  
 Habitat Assessment ✓  
 SCI/Bioscan ✓  
 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 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%.

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

RQ-2016-10-31-75



SAMPLE ID see sticker upper right ORG ID 21FLFTM  
STORET # see sticker upper right COUNTY Lee  
DATE see sticker upper right TIME 900  
SITE NAME \_\_\_\_\_  
FIELD ID/NAME see sticker upper right RECEIVING BODY OF WATER Caloosahatchee

L 10/31/2016  
WBID 3240M  
L Stroud Creek @ SR  
S 78

SD103116-2  
Field ID  
STORET  
28020039 \*

## RIPARIAN ZONE / STREAM FEATURES

|                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                      |  |  |  |                                                                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <u>20</u> Silviculture <u>0</u> Field/Pasture <u>60</u> Agricultural <u>0</u> Residential <u>20</u> Commercial <u>0</u> Industry <u>0</u> Other (Specify) <u>0</u> |  |  |  |                                                                                                      |  |  |  | <b>Landscape Development Intensity Index (LDI)</b><br><u>0</u> |  |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                            |  |  |  |                                                                                                      |  |  |  | Typical Width (m) Depth (m)/Velocity (m/sec) Transect          |  |
| Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                            |  |  |  |                                                                                                      |  |  |  | <u>3</u> m wide                                                |  |
| Width of Riparian Vegetation (m) on Each Buffer Side<br>Left Bank: <u>718</u> Right Bank: <u>718</u>                                                                                                                                                                       |  |  |  | Hydrologic Modification Score (per FT 3101) <u>0</u>                                                 |  |  |  | <u>.17</u> m/s <u>.17</u> m/s <u>.17</u> m/s                   |  |
| High Water Mark: <u>0.5</u> + <u>.4</u> = <u>.9</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                         |  |  |  | Artificially Impounded<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No        |  |  |  | <u>.4</u> m deep <u>.4</u> m deep <u>.4</u> m deep             |  |
| Artificially <input checked="" type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous                                                                                                                                                                |  |  |  | Canopy Cover % <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)        |  |  |  |                                                                |  |
| Channelized: <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                                                                                                                                |  |  |  | <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 type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum<br><input type="checkbox"/> Chemical <input checked="" 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 checked="" type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/><br>Algae Smothering: None <input checked="" type="checkbox"/> Slight <input 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 checked="" type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon<br>Woody Debris (Snags) <u>2.7</u> <u>5</u> <u>0</u><br>Undercut Banks / Roots <u>3.5</u> <u>5</u> <u>0</u><br>Leaf Packs or Mat ..... <u>0</u> <u>0</u> <u>0</u><br>Aquatic Vegetation ..... <u>few</u> <u>0</u> <u>0</u><br>Rock or Shell Rubble.. <u>1.5</u> <u>5</u> <u>0</u><br>Sand..... <u>0</u> <u>0</u> <u>0</u><br>Mud / Muck / Silt ..... <u>0</u> <u>0</u> <u>0</u><br>Other ..... <u>0</u> <u>5</u> <u>0</u><br>Other ..... <u>0</u> <u>0</u> <u>0</u> |  |  | <b>WATER QUALITY</b><br>Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)<br>Top: <u>0.3</u> <u>23.2</u> <u>7.1</u> <u>4.7</u> <u>55</u> <u>428</u> <u>0.4</u><br>Mid: <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u><br>Bottom: <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u><br>Meter ID: <u>5</u><br>Water Odors Normal <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/><br>Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/><br>Water Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Preserved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____<br>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: _____<br>Water Surface Oils Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/><br>Color Tannic <input type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input checked="" type="checkbox"/> Other (Specify) <input type="checkbox"/><br>Clarity Clear <input checked="" type="checkbox"/> Slightly Turbid <input type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/> |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| <b>ABUNDANCE</b><br>Periphyton: <input checked="" type="checkbox"/> Not Obs. <input type="checkbox"/> Rare <input type="checkbox"/> Common <input type="checkbox"/> Abundant<br>Fish: <input type="checkbox"/> Not Obs. <input type="checkbox"/> Rare <input checked="" type="checkbox"/> Common <input type="checkbox"/> Abundant<br>Aquatic Plants: <input type="checkbox"/> Not Obs. <input type="checkbox"/> Rare <input checked="" type="checkbox"/> Common <input type="checkbox"/> Abundant<br>Iron/Sulfur Bacteria: <input checked="" type="checkbox"/> Not Obs. <input type="checkbox"/> Rare <input type="checkbox"/> Common <input type="checkbox"/> Abundant                                |  |  | <b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) _____<br><b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><input checked="" type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| <b>SAMPLING TEAM</b><br><u>Ben Paswater - Corey Anderson</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | <b>SIGNATURE:</b><br><u>Ben Paswater</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | <b>DATE:</b><br><u>10/31/16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |

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

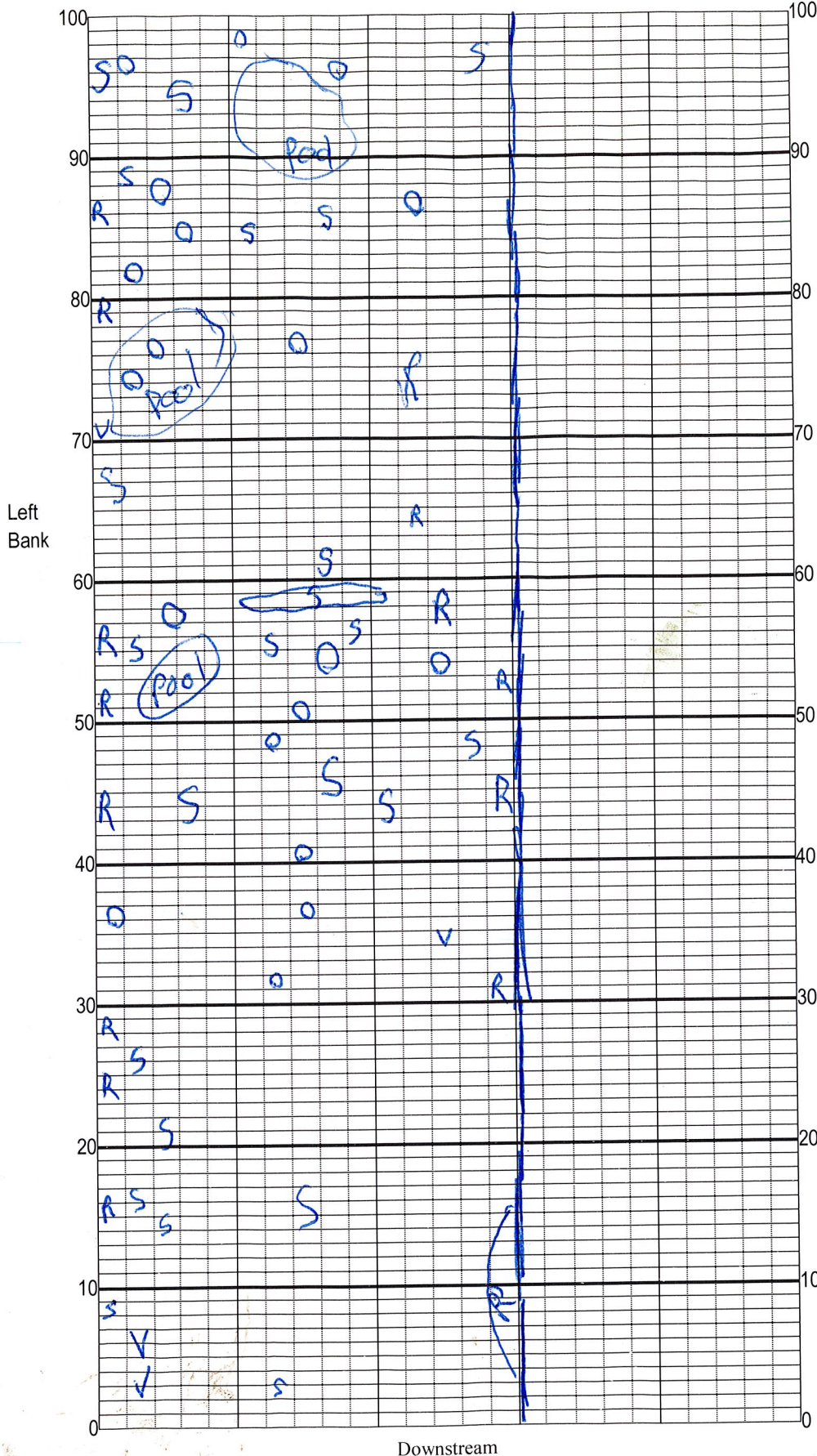
RQ-2016-10-31-75

10/31/2016  
WBID 3240M

Stroud Creek @ SR  
78

SD103116-2

Field ID  
STORET  
28020039 \*



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

Sampler: Ben Paswater

100 m: Latitude  
Longitude

0 m: Latitude  
Longitude

Substrates: Code key  
proportionate habitat

☒ S

Snags

☒ R

Roots/undercut banks

☐

Leaf Packs (or mats)

☒ V

Aquatic Macrophytes

☒ O

Rocks

☐

☒ Pool

Pools

total # observed = 3  
# range expected = 3-6

Average width 3 m

Average depth .4 m

Velocity measured at 0 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:

Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:

Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:

Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

S = 41 = 2.7

R = 53 = 3.5

O = 30 = 1.5

V = 3 = .2%

Shallow pools all of the