



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 7

Data Qualified?

Yes / No

October 2016

STORET Station Name:

RQ-2016-11-28-16

11/29/2016  
WBID 3240F

G3SD112916-1

STORET Station ID:

Draughtrey Cr. @  
Bright Rd.STORET  
\*28020231

Latitude:

(Decimal Degrees)

County: Lee RQ -

Longitude:

(Decimal Degrees)

Receiving Body of Water: Calvosahatchee River Field ID:

| Sampling Team Members |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| Rosemary Murphy       |  |  |  |  |                 |                   |               |              |                    |
| Chase Carbery         |  |  |  |  |                 |                   |               |              |                    |
| Corey Anderson        |  |  |  |  |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                             |                               |
|------------------------------------------------------|---------------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn           | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input checked="" 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 / Normal / High / Flooded Matrix: Fresh / Marine / DI

Meter ID# 5 Photos: Yes / No Tide Falling: Yes / No / NA

| 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       | 8:20  | 0.3              | 0.8             | 5.6       | 65        | 7.0 | 0.7            | 0.85            | 1342               | 20.3       |
| CEN       | Manta | 0.3              |                 | 5.8       | 65        | 7.5 | 0.7            |                 | 1338               | 20.3       |

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"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                        | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |           |            | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                        | <input type="checkbox"/> Ice <input type="checkbox"/> HNO2                        |           |            | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                        | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                          | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Macroinvertebrates          | <input checked="" type="checkbox"/> MI-FW-QLDC                                                                                                                                                                         | <input checked="" type="checkbox"/> Formalin                                      |           |            |                                        |
| Microbiology                | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enteroc <input type="checkbox"/> QPCR                                                                                         | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Periphyton                  | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                      | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                    |           |            |                                        |

Contains  
1:1  
Sulfuric Acid  
SA-6209120  
EXP: 07/27/17  
Warning!  
See SDSPreservative Sticker(s) Here  
(If Available)

|                              |                                               |                                               |
|------------------------------|-----------------------------------------------|-----------------------------------------------|
| Notes:<br>Blank time<br>8:30 | RQ-2016-11-28-16<br>11/29/2016<br>Field Blank | SDBlank1<br>Field ID<br>STORET<br>Field Blank |
|------------------------------|-----------------------------------------------|-----------------------------------------------|

Signature: Date: 11-29-16

Field Parameters Entered into LIMS: Field Parameters QC in LIMS:

Date Migrated to STORET: Field Sheets Scanned/Saved:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)

11/29/2016  
WBID 3240F

G3SD112916-1

Field ID

STORET

\*28020231

SAMPLE ID \_\_\_\_\_ ORG ID 21FLFTM  
COUNTY Lee STORET # \_\_\_\_\_  
DATE 11/29/16 TIME 820  
SITE NAME \_\_\_\_\_  
FIELD ID/NAME \_\_\_\_\_ RECEIVING BODY OF WATER Calousahatchee River

Draughtrey Cr. @  
Bright Rd.

## RIPARIAN ZONE / STREAM FEATURES

|                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |                                                                                                      |  |                                                                                                                                                                |                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input checked="" 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 checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                                                                                                                                                                    |  |  |  |                                                                                                      |  |                                                                                                                                                                | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br><u>3m</u> m wide |
| Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                                                                                                                                                                    |  |  |  |                                                                                                      |  |                                                                                                                                                                |                                                                                  |
| <b>Width of Riparian Vegetation (m) on Each Buffer Side</b><br>Left Bank: <u>18m</u> Right Bank: <u>3m</u>                                                                                                                                                                                                                                                                                                         |  |  |  | <b>Hydrologic Modification Score</b> (per FT 3101) <input type="checkbox"/>                          |  | <input type="checkbox"/> m/s <u>0.08</u> m/s <input type="checkbox"/> m/s<br><input type="checkbox"/> m deep <u>0.4</u> m deep <input type="checkbox"/> m deep |                                                                                  |
| <b>High Water Mark:</b> <u>1.2</u> + <u>0.4m</u> = <u>1.6m</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>Artificiality</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Und <input type="checkbox"/> Mostly recovered, more sinuous                                                                                                                                                                                                                                                                   |  |  |  | <b>Canopy Cover %</b> <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%) |  |                                                                                                                                                                |                                                                                  |
| <b>Channelized:</b> <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 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 checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input 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 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>% Coverage # Times Sampled # Times Sampled<br>Woody Debris (Snags) <input type="checkbox"/> <u>5</u> <u>1</u><br>Undercut Banks / Roots <input type="checkbox"/> <u>5</u> <u>1</u><br>Leaf Packs or Mat ..... <input type="checkbox"/> <u>2</u> <u>1</u><br>Aquatic Vegetation ..... <input type="checkbox"/> <u>1</u> <u>1</u><br><u>Rock</u> or Shell Rubble.. <input type="checkbox"/> <u>5</u> <u>1</u><br>Sand..... <input type="checkbox"/> <u>2</u> <u>1</u><br>Mud / Muck / Silt ..... <input type="checkbox"/> <u>2</u> <u>1</u><br>Other ..... <input type="checkbox"/> <u>2</u> <u>1</u><br>Other ..... <input type="checkbox"/> <u>2</u> <u>1</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: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Mid: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Bottom: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Meter ID: _____<br><b>Water Odors</b> Normal <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/><br>Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/><br>Water Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____<br>Algae Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____<br><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 type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input checked="" 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"/><br><b>System Type:</b> Stream <input type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) <input type="checkbox"/><br><b>ABUNDANCE</b> Not Obs. Rare Common Abundant<br>Periphyton: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Fish: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/><br>Aquatic Plants: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Iron/Sulfur Bacteria: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><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> <u>Anderson, Murphy, Conley</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                   | <b>SIGNATURE:</b> <u>CE</u><br><b>DATE:</b> <u>11-29-16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## DEP FORM FD 9000-25 Rapid Periphyton Survey

Draughtrey Cr. @  
Bright Rd.

|       |                    |       |
|-------|--------------------|-------|
| Site: | County: <u>Lee</u> | Date: |
|-------|--------------------|-------|

| 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                          | ↑                                | ↑         |              | 60           | 1                          | ↑                                | ↑         |              |
|              | 2                          | ↑                                | ↑         |              |              | 2                          | ↑                                | ↑         |              |
|              | 3                          | ↑                                | ↑         |              |              | 3                          | ↑                                | ↑         |              |
|              | 4                          | ↑                                | ↑         |              |              | 4                          | ↑                                | ↑         |              |
|              | 5                          | N                                | N         | 96           |              | 5                          | N                                | N         | 96           |
|              | 6                          | ↓                                | ↓         |              |              | 6                          | ↓                                | ↓         |              |
|              | 7                          | ↓                                | ↓         |              |              | 7                          | ↓                                | ↓         |              |
|              | 8                          | ↓                                | ↓         |              |              | 8                          | ↓                                | ↓         |              |
|              | 9                          | ↓                                | ↓         |              |              | 9                          | ↓                                | ↓         |              |
| 10           | 1                          | ↑                                | ↑         |              | 70           | 1                          | ↑                                | ↑         |              |
|              | 2                          | ↑                                | ↑         |              |              | 2                          | ↑                                | ↑         |              |
|              | 3                          | ↑                                | ↑         |              |              | 3                          | ↑                                | ↑         |              |
|              | 4                          | ↑                                | ↑         |              |              | 4                          | ↑                                | ↑         |              |
|              | 5                          | N                                | N         | 96           |              | 5                          | N                                | N         | 96           |
|              | 6                          | ↓                                | ↓         |              |              | 6                          | ↓                                | ↓         |              |
|              | 7                          | ↓                                | ↓         |              |              | 7                          | ↓                                | ↓         |              |
|              | 8                          | ↓                                | ↓         |              |              | 8                          | ↓                                | ↓         |              |
|              | 9                          | ↓                                | ↓         |              |              | 9                          | ↓                                | ↓         |              |
| 20           | 1                          | ↑                                | ↑         |              | 80           | 1                          | ↑                                | ↑         |              |
|              | 2                          | ↑                                | ↑         |              |              | 2                          | ↑                                | ↑         |              |
|              | 3                          | ↑                                | ↑         |              |              | 3                          | ↑                                | ↑         |              |
|              | 4                          | ↑                                | ↑         |              |              | 4                          | ↑                                | ↑         |              |
|              | 5                          | N                                | N         | 92           |              | 5                          | N                                | N         | 92           |
|              | 6                          | ↓                                | ↓         |              |              | 6                          | ↓                                | ↓         |              |
|              | 7                          | ↓                                | ↓         |              |              | 7                          | ↓                                | ↓         |              |
|              | 8                          | ↓                                | ↓         |              |              | 8                          | ↓                                | ↓         |              |
|              | 9                          | ↓                                | ↓         |              |              | 9                          | ↓                                | ↓         |              |
| 30           | 1                          | ↑                                | ↑         |              | 90           | 1                          | ↑                                | ↑         |              |
|              | 2                          | ↑                                | ↑         |              |              | 2                          | ↑                                | ↑         |              |
|              | 3                          | ↑                                | ↑         |              |              | 3                          | ↑                                | ↑         |              |
|              | 4                          | ↑                                | ↑         |              |              | 4                          | ↑                                | ↑         |              |
|              | 5                          | N                                | N         | 96           |              | 5                          | N                                | N         | 96           |
|              | 6                          | ↓                                | ↓         |              |              | 6                          | ↓                                | ↓         |              |
|              | 7                          | ↓                                | ↓         |              |              | 7                          | ↓                                | ↓         |              |
|              | 8                          | ↓                                | ↓         |              |              | 8                          | ↓                                | ↓         |              |
|              | 9                          | ↓                                | ↓         |              |              | 9                          | ↓                                | ↓         |              |
| 40           | 1                          | ↑                                | ↑         |              | 100          | 1                          | ↑                                | ↑         |              |
|              | 2                          | ↑                                | ↑         |              |              | 2                          | ↑                                | ↑         |              |
|              | 3                          | ↑                                | ↑         |              |              | 3                          | ↑                                | ↑         |              |
|              | 4                          | ↑                                | ↑         |              |              | 4                          | ↑                                | ↑         |              |
|              | 5                          | N                                | N         | 67           |              | 5                          | N                                | N         | 96           |
|              | 6                          | ↓                                | ↓         |              |              | 6                          | ↓                                | ↓         |              |
|              | 7                          | ↓                                | ↓         |              |              | 7                          | ↓                                | ↓         |              |
|              | 8                          | ↓                                | ↓         |              |              | 8                          | ↓                                | ↓         |              |
|              | 9                          | ↓                                | ↓         |              |              | 9                          | ↓                                | ↓         |              |
| 50           | 1                          | ↑                                | ↑         |              |              | 1                          | ↑                                | ↑         |              |
|              | 2                          | ↑                                | ↑         |              |              | 2                          | ↑                                | ↑         |              |
|              | 3                          | ↑                                | ↑         |              |              | 3                          | ↑                                | ↑         |              |
|              | 4                          | ↑                                | ↑         |              |              | 4                          | ↑                                | ↑         |              |
|              | 5                          | N                                | N         | 95           |              | 5                          | N                                | N         |              |
|              | 6                          | ↓                                | ↓         |              |              | 6                          | ↓                                | ↓         |              |
|              | 7                          | ↓                                | ↓         |              |              | 7                          | ↓                                | ↓         |              |
|              | 8                          | ↓                                | ↓         |              |              | 8                          | ↓                                | ↓         |              |
|              | 9                          | ↓                                | ↓         |              |              | 9                          | ↓                                | ↓         |              |

STORET Station Number:

|              |  |
|--------------|--|
| 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 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 9000-5 Stream/River Habitat Assessment Field Sheet

RQ-2016-11-28-16

11/29/2016  
WBID 3240F

Draughtrey Cr. @  
Bright Rd.

G3SD112916-1

Field ID

STORET  
\*28020231

STORET STATION NUMBER:

DATE (MM/DD/YY):

RECEIVING BODY OF WATER:

LOCATION:

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 <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>9</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 <u>9</u> 8 7 6                                                                                    | Less than 5% major productive habitat<br>5 4 3 2 1                                                                            |
| Water Velocity <u>8</u>                                                         | Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec<br>≥0.33 0.31 0.29 0.27 >0.25<br>20 19 18 17 16                                                                                                    | Max. observed at typical transect: >0.1 to 0.25 m/sec<br>0.25 0.21 0.17 0.13 >0.1<br>15 14 13 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 <u>8</u> 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>18</u><br>-----<br>Primary Score <u>49</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 <u>18</u> 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 <u>18</u>                                             | 20 19 <u>18</u> 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.                                                            | Only meets 2 of the 3 requirements for optimal bank stability.                                                                                                 | Only meets 1 of the 3 requirements for optimal bank stability.                                                                             | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.                   |
| Right Bank <u>9</u><br>Left Bank <u>9</u>                                       | 10 <u>9</u>                                                                                                                                                                                                       | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | 3 2 1                                                                                                                         |
| Riparian Buffer Zone Width                                                      | Width of vegetation greater than 18 m                                                                                                                                                                             | Width of vegetation >12 to 18m                                                                                                                                 | Width of vegetation 6 to 12 m. human activities close to system                                                                            | Less than 6 m of buffer zone due to intensive human activities                                                                |
| Right Bank <u>2</u><br>Left Bank <u>3</u>                                       | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | <u>3</u> <u>2</u> 1                                                                                                           |
| 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. | >50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. | 25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. | Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).     |
| Right Bank <u>5</u><br>Left Bank <u>5</u><br>-----<br>Secondary Score <u>51</u> | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | <u>5</u> 4                                                                                                                                 | 3 2 1                                                                                                                         |

100

TOTAL SCORE

Date:

11/29/16

Analyst:

*[Signature]*

Signature:

*Chase Carley*

Bankfull + 1.2

Draughtrey Cr. @  
Bright Rd.

Date: 11/29/16

Sampler: Chase Conley

100 m: Latitude \_\_\_\_\_  
Longitude \_\_\_\_\_

0 m: Latitude \_\_\_\_\_  
Longitude \_\_\_\_\_

Substrates: Code key, draw proportionate habitat abundance. %

S Snags \_\_\_\_\_

R Roots/undercut banks \_\_\_\_\_

LP Leaf Packs (or mats) \_\_\_\_\_

V Aquatic Macrophytes \_\_\_\_\_

RK Rocks \_\_\_\_\_

\_\_\_\_\_

P Pools total # observed = \_\_\_\_\_  
# range expected = \_\_\_\_\_

Average width 3 m

Average depth 0.4 m

Velocity measured at 80 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: 0.08 velocity

$$RKS = 147 / 1500 = 9.8$$

$$Snags = 25 / 1500 = 1.6$$

$$Roots = 25 / 1500 = 1.6$$

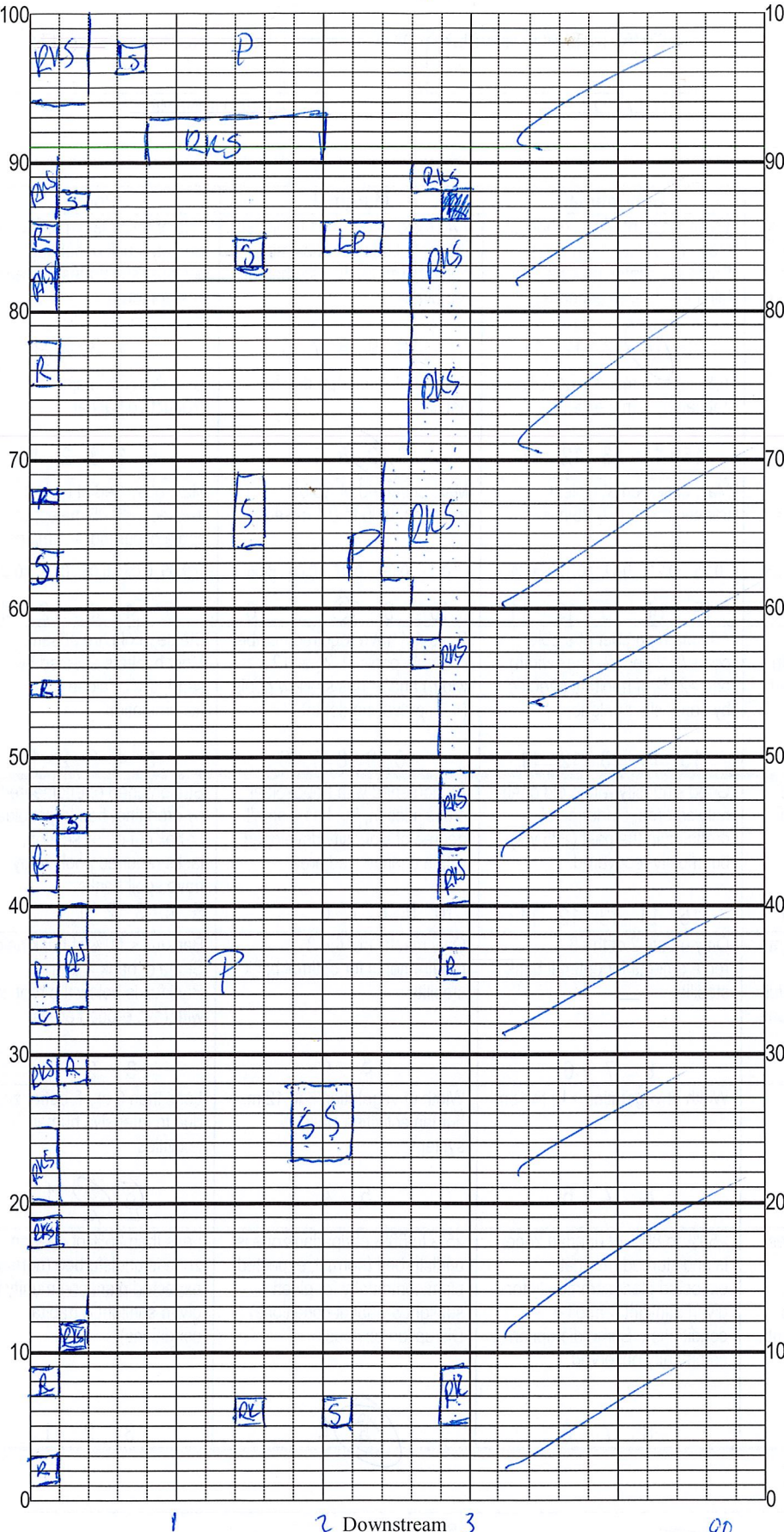
$$V = 1 / 1500 = 0.06$$

$$LP = 0.26$$

$$\begin{array}{r} 13.06 \\ + 1.26 \\ \hline 13.32 \end{array}$$

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

$$\begin{array}{r} 90 \\ + 57 \\ \hline 147 \end{array}$$

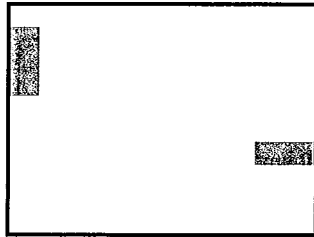




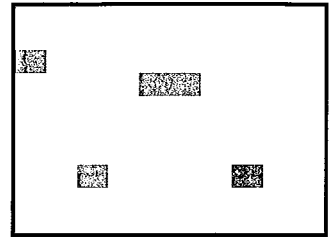
# FDEP FORM FD 9000-32 LINEAR VEGETATION SURVEY FIELD SHEET

Percent Cover Categories for macrophytes in a 10 m segment of a stream 5 m wide

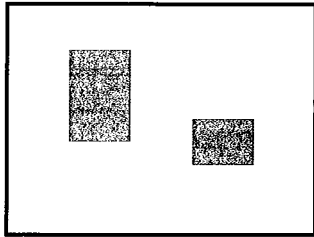
5% Macrophyte Coverage



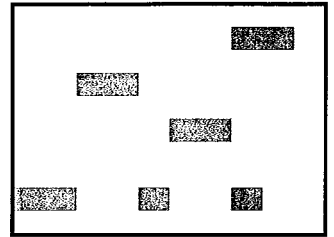
5% Macrophyte Coverage



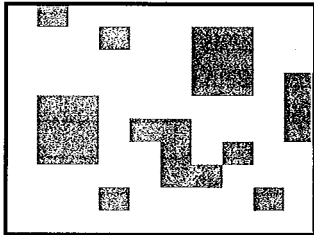
10% Macrophyte Coverage



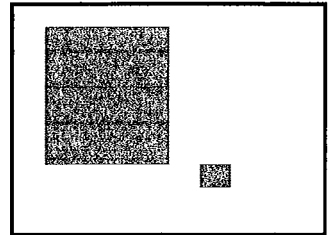
10% Macrophyte Coverage



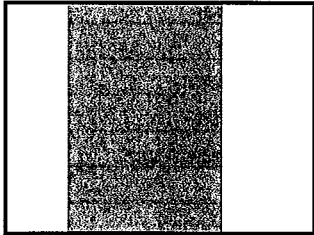
25% Macrophyte Coverage



25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage

