



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

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

February 2016

Data Qualified?  
Yes / No

STORET Station Name: Fish Bone Creek @ 212

Date: 04-19-2016  
(mm/dd/yyyy)

STORET Station ID: GITLHR0015

Latitude: 29.51691435  
(Decimal Degrees)

WBID: 3684 RQ: 2016-03-14-S6 ORG ID: 21FLTHR

Longitude: -83.14560778  
(Decimal Degrees)

Receiving Body of Water: California Lake Field ID: GITLHR0015

County: Dixie

| Sampling Team Members |  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-----------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Chris Green           |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Colby Marshall        |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

| Sampling Equipment                                   |                                                 |                               |
|------------------------------------------------------|-------------------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn               | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe                |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other                  |                               |
| Equipment ID                                         |                                                 |                               |
| Collection Method                                    |                                                 |                               |
| <input type="checkbox"/> Wading                      | <input checked="" type="checkbox"/> Via Boat    |                               |
| <input type="checkbox"/> From Shore                  | <input checked="" 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# 600 XLM #12 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°)  |
|------------|--------------|------------------|-----------------|------------|-----------|------------|----------------|-----------------|--------------------|-------------|
| <u>EST</u> | <u>11:30</u> | <u>0.3</u>       | <u>0.7</u>      | <u>7.3</u> | <u>76</u> | <u>7.5</u> |                | <u>0.7(s)</u>   | <u>397</u>         | <u>17.3</u> |
| CEN        |              |                  |                 |            |           |            |                |                 |                    |             |

Biological Samples Collected: None HA SCI LVS RPS LVI Other

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                      | Preservation                                                           | Acid Lot#                                            | Expiration     | pH Check                               |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------|----------------|----------------------------------------|
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                        | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> H2SO4 | <u>525020</u>                                        | <u>9/16/16</u> | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                        | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3             |                                                      |                | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                | Place Preservative Sticker(s) Here<br>(If Available) |                |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                |                                                      |                |                                        |
| BOD                         | <input checked="" type="checkbox"/> BOD-UNIN                                                                                                                                                                           | <input checked="" type="checkbox"/> Ice                                |                                                      |                |                                        |
| Physical/Aggregate (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 checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                               | <input checked="" 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 <input type="checkbox"/> Other            |                                                      |                |                                        |

Notes: SCI @ 1200

Place Label Here  
(If Available)

Signature: CLJ Date: 4-19-2016

Field Parameters Entered into LIMS: \_\_\_\_\_ (Initials/Date) Field Parameters QC in LIMS: \_\_\_\_\_ (Initials/Date)  
Date Migrated to STORET: \_\_\_\_\_ (Initials/Date) Field Sheets Scanned/Saved: CL 5-4-2016 (Initials/Date)

SMP

**Customer: WQAP**

**Project ID: SMP**

Requester: Chris Green

Collected By:

Field Report Prepared By:

Sampling Agency:

[illegible]

|                           |                      |                         |              |           |                  |           |                    |                           |
|---------------------------|----------------------|-------------------------|--------------|-----------|------------------|-----------|--------------------|---------------------------|
| Relinquished By:<br>CG/Lm | Date/Time<br>4/19/16 | Shipping Method<br>hand | Received By: | Date/Time | Relinquished By: | Date/Time | Received By:<br>MB | Date/Time<br>4/19/16/3:20 |
|---------------------------|----------------------|-------------------------|--------------|-----------|------------------|-----------|--------------------|---------------------------|

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

|                                 |                         |                                            |                                    |                                                    |
|---------------------------------|-------------------------|--------------------------------------------|------------------------------------|----------------------------------------------------|
| SAMPLING AGENCY:<br><u>8034</u> |                         | STORET STATION NUMBER:<br><u>GTL420015</u> | DATE (MM/DD/YY):<br><u>4/19/16</u> | RECEIVING BODY OF WATER:<br><u>California Lake</u> |
| REMARKS:                        | COUNTY:<br><u>Dixie</u> | LOCATION:<br><u>Fishbone Creek @ 212</u>   | FIELD ID/NAME:<br><u>GTL420015</u> |                                                    |

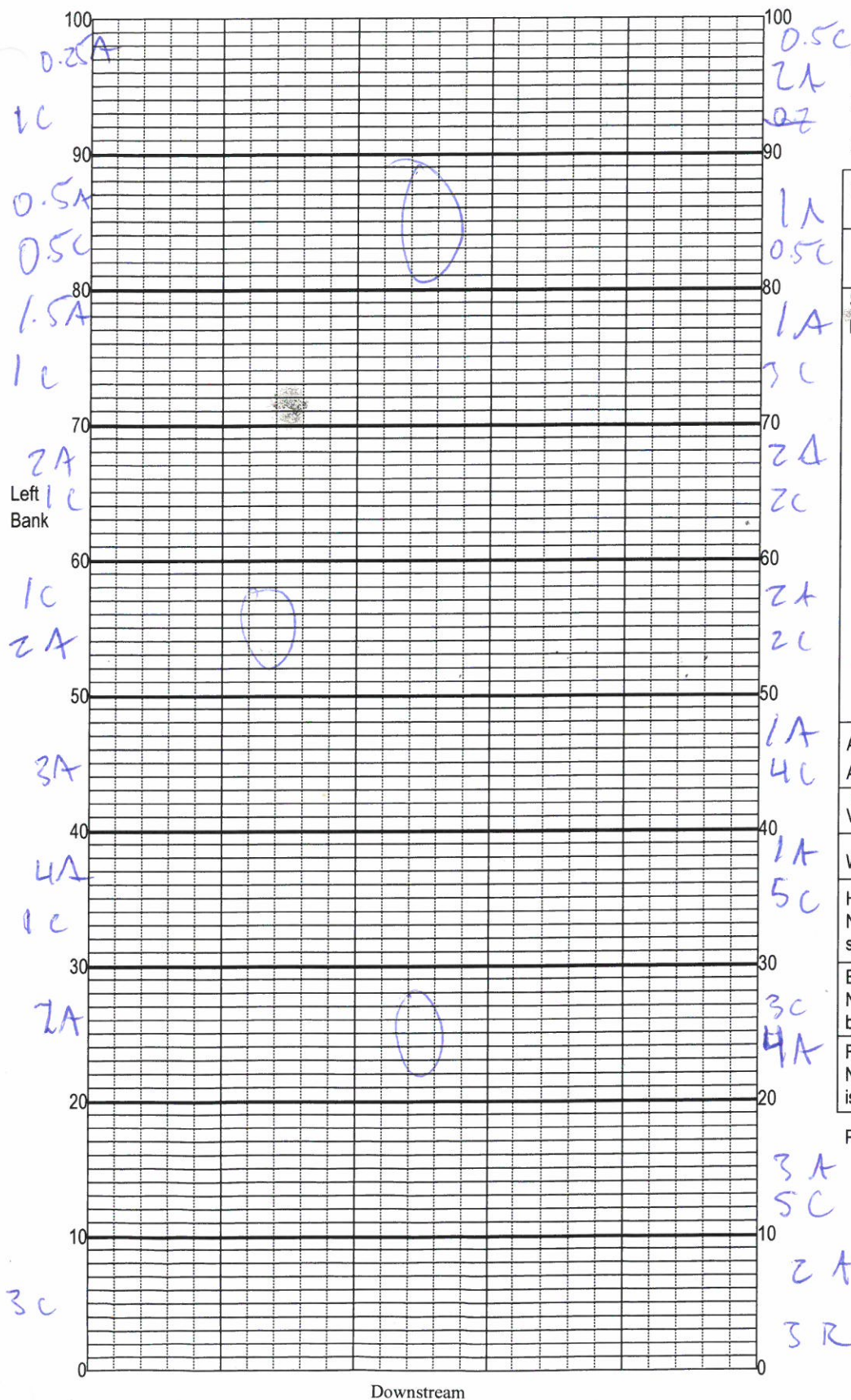
| Habitat Parameter                                                                | Optimal                                                                                                                                                                                                           | Suboptimal                                                                                                                                                     | 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>13</u>                                                    | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 <u>13</u> 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 8 7 6                                                                                           | Less than 5% major productive habitat<br>5 4 3 2 1                                                                            |
| Water Velocity <u>15</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><u>15</u> 14 13 12 11                                                     | Max. observed at typical transect: 0.05 to 0.1 m/sec<br>0.1 0.09 0.07 0.06 0.05<br>10 9 8 7 6                                              | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1      |
| Habitat Smothering <u>13</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 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 <u>13</u> 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>12</u>                                              | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 13 12 11                                                                                                                                                 | 10 9 8 7 6                                                                                                                                 | 5 4 3 2 1                                                                                                                     |
| Bank Stability                                                                   | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.                                                            | 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>10</u><br>Left Bank <u>10</u>                                      | 10 9                                                                                                                                                                                                              | 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>10</u><br>Left Bank <u>10</u>                                      | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | 3 2 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>9</u><br>Left Bank <u>10</u><br>-----<br>Secondary Score <u>71</u> | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | 3 2 1                                                                                                                         |

120

**TOTAL SCORE**

|                      |                             |                               |
|----------------------|-----------------------------|-------------------------------|
| Date: <u>4/19/16</u> | Analyst: <u>Chris Green</u> | Signature: <u>[Signature]</u> |
|----------------------|-----------------------------|-------------------------------|

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



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

Location: Fish Lake Creek  
Date: 4/19/16  
Sampler: Marshall/Graen

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

Substrates: Code key, draw proportionate habitat abundance. %

|                                       |                      |                                                |
|---------------------------------------|----------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> A | Snags                | 3.4                                            |
| <input checked="" type="checkbox"/> B | Roots/undercut banks | 3.7                                            |
| <input checked="" type="checkbox"/> C | Leaf Packs (or mats) | 3.2                                            |
| <input checked="" type="checkbox"/> D | Aquatic Macrophytes  |                                                |
| <input checked="" type="checkbox"/> E | Rocks                | 0.3                                            |
| <input type="checkbox"/>              |                      |                                                |
| <input checked="" type="checkbox"/> F | Pools                | total # observed = 3<br># range expected = 1-2 |

Average width 10 m

Average depth 1.2 m

Velocity measured at 50 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering: Silt Throughout  
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: 718  
Note areas (on map) where natural vegetation is altered or eliminated. >18

Plants observed / other notes:

3A  
5C  
2A  
3R

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

SAMPLE ID GITL420015 ORG ID 21FLTLHR LATITUDE 29.51691  
COUNTY Dixie STORET # GITL420015 LONGITUDE -83.14561  
ATE 4/19/16 TIME 1200 SAMPLING AGENCY 8034  
SITE NAME Fishbone Creek @ 212  
FIELD ID/NAME GITL420015 RECEIVING BODY OF WATER California Lake

## RIPARIAN ZONE / STREAM FEATURES

|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |                                                                                                                                                                                                              |  |                                                                                                                                                                           |  |                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <input checked="" type="checkbox"/> 35 Silviculture <input checked="" type="checkbox"/> 35 Field/Pasture <input checked="" type="checkbox"/> 30 Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industry <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |  |  |  |                                                                                                                                                                                                              |  |                                                                                                                                                                           |  | <b>Landscape Development Intensity Index (LDI)</b><br><input type="text"/> |
| Local Watershed Erosion (select one): <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                |  |  |  |                                                                                                                                                                                                              |  | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br><input type="text"/> m wide<br><input type="text"/> m/s <input type="text"/> m/s <input type="text"/> m/s |  |                                                                            |
| <b>Width of Riparian Vegetation (m) on Each Buffer Side</b><br>Left Bank: <input type="text"/> Right Bank: <input type="text"/>                                                                                                                                                                                                                                                                                                                   |  |  |  | <b>Hydrologic Modification Score</b> (per FT 3101) <input type="text"/>                                                                                                                                      |  | <input type="text"/> m/s <input type="text"/> m/s <input type="text"/> m/s                                                                                                |  |                                                                            |
| <b>High Water Mark:</b> <input type="text"/> + <input type="text"/> = <input type="text"/><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                                         |  |  |  | <b>Artificially Impounded</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                         |  | <input type="text"/> m deep <input type="text"/> m deep <input type="text"/> m deep                                                                                       |  |                                                                            |
| <b>Artificially</b> <input type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous<br><b>Channelized:</b> <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                                                                                                                                                                                     |  |  |  | <b>Canopy Cover %</b> <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)<br><input checked="" type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%) |  |                                                                                                                                                                           |  |                                                                            |

## SEDIMENT / SUBSTRATE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Sediment Oils</b><br><input checked="" type="checkbox"/> Absent <input type="checkbox"/> Slight<br><input type="checkbox"/> Moderate <input type="checkbox"/> Profuse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>Sediment Odors</b><br><input 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 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                             | <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="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>Mid: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>Bottom: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/><br>Meter ID: <input type="text"/>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Woody Debris (Snags)</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Undercut Banks / Roots</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Leaf Packs or Mat</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Aquatic Vegetation</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Rock or Shell Rubble</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Sand</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Mud / Muck / Silt</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Other</b> <input type="text"/> <input type="text"/> <input type="text"/><br><b>Other</b> <input type="text"/> <input type="text"/> <input type="text"/> |  |                                                                                                                                                                                                                                                             | <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><b>Water Surface Oils</b> Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/><br><b>Color</b> Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) <input type="text"/><br><b>Clarity</b> Clear <input type="checkbox"/> Slightly Turbid <input checked="" type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>ABUNDANCE</b><br>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 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"/>                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                             | <b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other (Specify) <input type="text"/><br><b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><u>Rock habitat unreachable</u><br><input checked="" type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

SAMPLING TEAM

Chris Green / Colby Marshall

SIGNATURE:

Chris Green

DATE:

4-19-16

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

| Site: Fishbone Creek @ 212 |                            |                                  |           |              | County: Dixie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | Date: 4-17-16                    |           | Investigators: Marshall / Green |                                                                                                                                                                                   |
|----------------------------|----------------------------|----------------------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                    | STORET Station Number:<br>GITLHR 0019                                                                                                                                             |
| 0                          | 1                          | N                                |           |              | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          | N                                |           |                                 | Secchi depth 0.7 (5)<br>Estimated?                                                                                                                                                |
|                            | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 5                          |                                  |           | 92           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 87                              |                                                                                                                                                                                   |
|                            | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                 |                                                                                                                                                                                   |
| 10                         | 1                          |                                  |           |              | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          |                                  |           |                                 | # points ranked 4-6 0<br>total points assessed 99<br>% points ranked 4-6                                                                                                          |
|                            | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 5                          |                                  |           | 91           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 90                              |                                                                                                                                                                                   |
|                            | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                 |                                                                                                                                                                                   |
| 20                         | 1                          |                                  |           |              | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          |                                  |           |                                 | Check accompanying data collected at same site/date.<br>Algal mat sample ✓<br>Linear Veg Survey ✓<br>Habitat Assessment ✓<br>SCI/Biorecon ✓<br>Water sample ✓<br>RQ-2016-03-14-56 |
|                            | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 5                          |                                  |           | 88           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 84                              |                                                                                                                                                                                   |
|                            | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                 |                                                                                                                                                                                   |
| 30                         | 1                          |                                  |           |              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          |                                  |           |                                 | Algal Thickness Rank<br>N rough, no algae, slimy, algae up to 1mm<br>3 >1mm - 6mm<br>4 >6mm - 20mm<br>5 >20mm - 10 cm<br>6 >10 cm                                                 |
|                            | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 5                          |                                  |           | 89           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 87                              |                                                                                                                                                                                   |
|                            | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                 |                                                                                                                                                                                   |
| 40                         | 1                          |                                  |           |              | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 5                          |                                  |           | 91           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 93                              |                                                                                                                                                                                   |
|                            | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                 |                                                                                                                                                                                   |
| 50                         | 1                          |                                  |           |              | 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.<br>Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.<br>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.<br>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%. |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 5                          |                                  |           | 93           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |
|                            | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                 |                                                                                                                                                                                   |

|                           |                        |               |                          |
|---------------------------|------------------------|---------------|--------------------------|
| Waterbody: Fishbone Creek | Date: 4/19/16          | County: Dixie | Storet Number: GUT4R0015 |
| Analyst: Marshall / Green | Signature: [Signature] |               |                          |
| Comments: Use 2 m2        |                        |               |                          |

[illegible]Revision Date: March 1, 2014