

# GEORGIA ADOPT-A-STREAM: Chemical/Bacterial Form

To be conducted every month

| <b>SITE INFORMATION</b>   | Group Name: <u>WWALS</u> Event Date: <u>12/11/2024</u> (MMDDYYYY)<br>Group ID: G- <u>1727</u> Site ID: S- <u>7776</u> Time Sample Collected: <u>5:00</u> (HHMM am/pm)<br>Stream Name: <u>FRANK'S CKK@122</u> Time Spent Sampling: <u>5</u> (Min)<br>Monitor(s): <u>Debbie Smith</u> Total Time Spent Traveling (optional): <u>5</u> (Min)<br>Number of Participants: <u>1</u> Furthest Distance Traveled (optional): <u>5</u> (Miles)  |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
|---------------------------|--|---|---------------|--------------------------------------|---|-----------|-------------|----------|--------------------------------------|---------------------|----------|------------|---|-----------|----------------------|-----------|------------------|----|------------|------------|--|----|---------------|--|--|------|--------------|--|--|---------------|------------------|--|--|-----|---------------------------|--|--|-------------|--|--|--|--|--------------|--|--|-------|--|--|--|--|
| <b>WEATHER</b>            | <b>Present conditions (check all that apply)</b><br><input type="checkbox"/> Heavy Rain <input type="checkbox"/> Steady Rain <input type="checkbox"/> Intermittent Rain<br><input type="checkbox"/> Overcast <input type="checkbox"/> Partly Cloudy <input checked="" type="checkbox"/> Clear/Sunny  | <b>Amount of rain, if known?</b><br>Amount in Inches: _____<br>In Last Hours/Days: _____<br>*Refer to <i>wunderground.com</i> for rainfall data |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| <b>OBSERVATIONS</b>       | <b>Flow/Water Level:</b> (check all that apply) <input type="checkbox"/> Dry <input type="checkbox"/> Stagnant/Still <input type="checkbox"/> Low <input type="checkbox"/> Normal <input checked="" type="checkbox"/> High <input type="checkbox"/> Flow (over banks)<br><b>Water Clarity:</b> <input checked="" type="checkbox"/> Clear/Transparent <input type="checkbox"/> Cloudy/Somewhat Turbid <input type="checkbox"/> Opaque/Turbid<br><b>Water Color:</b> <input type="checkbox"/> No Color <input type="checkbox"/> Brown/Muddy <input type="checkbox"/> Green <input type="checkbox"/> Milky/White <input checked="" type="checkbox"/> Tannic <input type="checkbox"/> Other: _____<br><b>Water Surface:</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Oily Sheen: does it break when disturbed? Yes/No (circle one) <input type="checkbox"/> Algae<br><input type="checkbox"/> Foam <input type="checkbox"/> Greater than 3" high <input type="checkbox"/> It is white<br><b>Water Odor:</b> <input checked="" type="checkbox"/> Natural/None <input type="checkbox"/> Gasoline <input type="checkbox"/> Sewage <input type="checkbox"/> Rotten Egg<br><input type="checkbox"/> Fishy <input type="checkbox"/> Chlorine <input type="checkbox"/> Other: _____<br><b>Photos:</b> Please take images to document your observations and changes in water quality conditions.<br>Photo point directions can be found in the manuals. Send photo to <a href="mailto:AAS@gaepd.org">AAS@gaepd.org</a> .<br><b>Trash:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Yes, I did a cleanup <input type="checkbox"/> This site needs an organized cleanup |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| <b>CHEMICAL</b>           | <b>Conductivity Meter Calibration (within 24hrs of sampling)</b><br>Date _____ Time _____ Standard Value _____ Initial Meter Reading _____ Meter Adjusted to _____<br>Reagents: Are any reagents expired? <input type="checkbox"/> Yes <input type="checkbox"/> No   List any expired: _____   |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| <b>CHEMICAL</b>           | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Core Tests</th> <th>Test 1</th> <th>Test 2</th> <th>Units</th> <th>Other Tests</th> <th>Test 1</th> <th>Test 2</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>Air Temp</td> <td><u>15C</u></td> <td></td> <td>°C</td> <td>Secchi Depth(+/- 10)</td> <td></td> <td></td> <td>cm</td> </tr> <tr> <td>Water Temp</td> <td><u>15C</u></td> <td></td> <td>°C</td> <td>Chlorophyll a</td> <td></td> <td></td> <td>ug/L</td> </tr> <tr> <td>pH (+/-0.25)</td> <td></td> <td></td> <td>Standard unit</td> <td>Salinity (+/- 1)</td> <td></td> <td></td> <td>ppt</td> </tr> <tr> <td>Dissolved Oxygen (+/-0.6)</td> <td></td> <td></td> <td>mg/L or ppm</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Conductivity</td> <td></td> <td></td> <td>uS/cm</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>  |   | Core Tests    | Test 1                               | Test 2  | Units     | Other Tests | Test 1   | Test 2                               | Units               | Air Temp | <u>15C</u> |   | °C        | Secchi Depth(+/- 10) |           |                  | cm | Water Temp | <u>15C</u> |  | °C | Chlorophyll a |  |  | ug/L | pH (+/-0.25) |  |  | Standard unit | Salinity (+/- 1) |  |  | ppt | Dissolved Oxygen (+/-0.6) |  |  | mg/L or ppm |  |  |  |  | Conductivity |  |  | uS/cm |  |  |  |  |
| Core Tests                | Test 1   | Test 2  | Units         | Other Tests                          | Test 1  | Test 2    | Units       |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Air Temp                  | <u>15C</u>   |   | °C            | Secchi Depth(+/- 10)                 |   |           | cm          |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Water Temp                | <u>15C</u>   |   | °C            | Chlorophyll a                        |   |           | ug/L        |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| pH (+/-0.25)              |  |   | Standard unit | Salinity (+/- 1)                     |   |           | ppt         |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Dissolved Oxygen (+/-0.6) |  |   | mg/L or ppm   |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Conductivity              |  |   | uS/cm         |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| <b>BACTERIAL</b>          | <b>3M Petrifilm Method: Escherichia coli</b><br>Run three (3) plates/tests for each site, plus one (1) blank plate. Process within 6-24hrs, incubate at 35°C ±1° and read at 24 ± 1 hr   |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| <b>BACTERIAL</b>          | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Plate</th> <th>Colonies</th> <th rowspan="2">Find AVG of Number of Colonies<br/>(total # colonies/total # of plates (do not include blank))</th> <th rowspan="2">cfu/100mL</th> </tr> </thead> <tbody> <tr> <td>Blank</td> <td><u>0</u></td> <td rowspan="4"><math>( \frac{42 + 13}{3} ) \times 100 =</math></td> <td rowspan="4"><u>1,400 cfu/mL</u></td> </tr> <tr> <td>1</td> <td><u>13</u></td> </tr> <tr> <td>2</td> <td><u>19</u></td> </tr> <tr> <td>3</td> <td><u>10</u></td> </tr> <tr> <td>Total # Colonies</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>                 Sample Holding Time (HH): <u>24</u><br/>                 Date START (MMDDYYYY): <u>12/11/2024</u>   Date END (MMDDYYYY): <u>12/12/2024</u><br/>                 Time START (HHMM): <u>5:30 PM</u>   Time END (HHMM): <u>5:30 PM</u><br/>                 MIN Temp (°C): <u>7</u>   <u>34</u>   MAX Temp (°C): <u>34</u> </p>   |   | Plate         | Colonies                             | Find AVG of Number of Colonies<br>(total # colonies/total # of plates (do not include blank)) | cfu/100mL | Blank       | <u>0</u> | $( \frac{42 + 13}{3} ) \times 100 =$ | <u>1,400 cfu/mL</u> | 1        | <u>13</u>  | 2 | <u>19</u> | 3                    | <u>10</u> | Total # Colonies |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Plate                     | Colonies   | Find AVG of Number of Colonies<br>(total # colonies/total # of plates (do not include blank))   | cfu/100mL     |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Blank                     | <u>0</u>   |   |               | $( \frac{42 + 13}{3} ) \times 100 =$ | <u>1,400 cfu/mL</u>   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| 1                         | <u>13</u>  |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| 2                         | <u>19</u>  |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| 3                         | <u>10</u>  |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| Total # Colonies          |  |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |
| <b>COMMENTS</b>           | Any changes since you last sampled at this site? If yes, please describe.  |   |               |                                      |   |           |             |          |                                      |                     |          |            |   |           |                      |           |                  |    |            |            |  |    |               |  |  |      |              |  |  |               |                  |  |  |     |                           |  |  |             |  |  |  |  |              |  |  |       |  |  |  |  |

Please submit data to our online database at [AdoptAStream.Georgia.gov](http://AdoptAStream.Georgia.gov)