GEORGIA ADOPT-A-STREAM: Chem/Bact/Macro Form

SITE INFORMATION

Group Name:_____

Group ID: G-_____   Site ID: S-_____

Stream Name:_____

Monitor(s):_____

Number of Participants:_____

Event Date: _____ (MMDDYYYY)

Time Sample Collected:_____ (HHMM am/pm)

Time Spent Sampling: _____ (Min)

Total Time Spent Traveling *(optional)* : _____ (Min)

Furthest Distance Traveled *(optional)* : _____ (Miles)

WEATHER

Present conditions (check all that apply)

☐ Heavy Rain ☐ Steady Rain ☐ Intermittent Rain

☐ Overcast ☐ Partly Cloudy ☐ Clear/Sunny

Amount of rain, if known?

Amount in Inches :_____

In Last Hours/Days:_____

Refer to wunderground.com for rainfall data

OBSERVATIONS

Flow/Water Level: (check all that apply) ☐ Dry ☐ Stagnant/Still ☐ Low ☐ Normal ☐ High ☐ Flow (over banks)

Water Clarity: ☐ Clear/Transparent ☐ Cloudy/Somewhat Turbid ☐ Opaque/Turbid

Water Color: ☐ No Color ☐ Brown/Muddy ☐ Green ☐ Milky/White ☐ Tannic ☐ Other:_____

Water Surface: ☐ Clear ☐ Oily Sheen: does it break when disturbed? Yes/No (circle one) ☐ Algae

☐ Foam ◯ Greater than 3" high ◯ It is white

Water Odor: ☐ Natural/None ☐ Gasoline ☐ Sewage ☐ Rotten Egg

☐ Fishy ☐ Chlorine ☐ Other:_____

Photos: Please take images to document your observations and changes in water quality conditions. Photo point directions can be found in the manuals. Send photos to AAS@gaepd.org.

Trash: ☐ None ☐ Yes, I did a cleanup ☐ This site needs an organized cleanup

CHEMICAL

Conductivity Meter Calibration (within 24hrs of sampling)

Date_____ Time_____ Standard Value_____ Initial Meter Reading_____ Meter Adjusted to_____

Reagents: Are any reagents expired? ☐ Yes ☐ No List any expired: _____

Core Tests	Test 1	Test 2	Units	Other Tests	Test 1	Test 2	Units
Air Temp			^{0}C	Secchi Depth(+/- 10)			cm
Water Temp			^{0}C	Chlorophyll a			ug/L
pH (+/-0.25)			Standard unit	Salinity (+/- 1)			ppt
Dissolved Oxygen (+/-0.6)			mg/L or ppm				
Conductivity			uS/cm				

BACTERIAL

3M Petrifilm Method: *Escherichia coli*

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

Plate	Colonies	Find AVG of Number of Colonies	cfu/100mL
Blank		(total # colonies/total # of plates (do not include blank)	
1		(/) x 100 =	
2		Sample Holding Time (HH): _____	
3		Date START(MMDDYYYY): _____ Date END (MMDDYYYY):_____	
Total # Colonies		Time START (HHMM):_____ Time END (HHMM):_____	
		MIN Temp (^{0}C):_____ MAX Temp (^{0}C): _____	

COMMENTS

Any changes since you last sampled at this site? If yes, please describe.

Please submit data to our online database at AdoptAStream.Georgia.gov

GEORGIA ADOPT-A-STREAM: Macroinvertebrate Form

METHODS

Stream Type: ☐ Rocky Bottom Stream ☐ Muddy Bottom Stream

Method Used: ☐ Kick seine ☐ D-Frame net
(2 x 2 ft area) (1 x 1 area) **Total Area Sampled:** _____ft^2

Habitats Sampled: ☐ Leaf Packs/Woody Debris ☐ Vegetated Bank Margin ☐ Riffle

☐ Streambed with silty area (very fine particles) ☐ Streambed with Sand or small gravel

Directions: *Consult the macroinvertebrate monitoring manual for sampling guidelines*

1. Separate the macroinvertebrates into the different taxa groupings listed in the table below.

2. Note which **taxa** are present and their **abundance code** based on the number of individuals present in your sample.
Enter these codes in the boxes below for each taxa. *Abundance Codes:* **R** (rare)=1-9, **C** (common)=10-99, and
D (dominant)=100 individuals or greater

TAXA GROUPS

SENSITIVE TAXA	SOMEWHAT SENSITIVE TAXA	TOLERANT TAXA
☐ Stonefly Nymphs	☐ Common Net Spinning Caddisflies	☐ Midge Fly Larvae
☐ Mayfly Nymphs	☐ Dobsonfly/Helgrammite & Fishfly	☐ Black Fly Larvae
☐ Water Penny Larvae	☐ Dragonfly & Damselfly Nymphs	☐ Lunged Snails
☐ Riffle Beetle Larvae/Adults	☐ Crayfish	☐ Aquatic Worms
☐ Aquatic Snipe Flies	☐ Crane Flies	☐ Leeches
☐ Caddisflies	☐ Aquatic Sow Bugs	
☐ Gilled Snails	☐ Scud	
	☐ Clams & Mussels	

WATER QUALITY INDEX/RATING

☐ # groups times 3 =____ ☐ # groups times 2 =____ ☐ # groups times 1 =____

Now add together the three index values to get your **Water Quality Index Score** =_____
Use this score to find out your **Water Quality Rating** for your stream (below).
Good water quality is indicated by a variety of different kinds of taxa/organisms,
with no one kind making up a majority of the sample.

Water Quality Rating

☐ *Excellent (>22)* ☐ *Good (17-22)* ☐ *Fair (11-16)* ☐ *Poor (<11)*

OTHER

Optional: Do you see any of the following in your samples? Please count number of individuals.

☐ Fishes # : _____ ☐ Tadpoles # : _____

☐ Asian Clams # : _____ ☐ Nonnative Crayfish Which species?

☐ Salamanders # : _____ _____

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