

# GEORGIA ADOPT-A-STREAM: Macroinvertebrate Form (page 1)

To be conducted quarterly

SITE INFORMATION	Group Name: <u>Chattahoochee Hills Creek Keepers</u>	Event Date: <u>05/12/2020</u> (MMDDYYYY)
	Group ID: <u>G-1214</u> Site ID: <u>S-1507</u>	Time Sample Collected: <u>10:00 am</u> (HHMM am/pm)
	Stream Name: <u>Little Bear Creek</u>	Time Spent Sampling: <u>45</u> (Min)
	Monitor(s): <u>Matt and Mary Mayfly</u>	Total Time Spent Traveling (optional): <u>30</u> (Min)
	Number of Participants: <u>2</u>	Furthest Distance Traveled (optional): <u>12</u> (Miles)
WEATHER	<b>Present conditions (check all that apply)</b> <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Steady Rain <input type="checkbox"/> Intermittent Rain <input type="checkbox"/> Overcast <input type="checkbox"/> Partly Cloudy <input checked="" type="checkbox"/> Clear/Sunny	<b>Amount of rain, if known?</b> Amount in Inches: <u>0.5</u> In Last Hours/Days: <u>3 days</u> *Refer to <a href="http://wunderground.com">wunderground.com</a> for rainfall data
	<b>Flow/Water Level:</b> <small>(check all that apply)</small> <input type="checkbox"/> Dry <input type="checkbox"/> Stagnant/Still <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Flood (over banks)	
OBSERVATIONS	<b>Water Clarity:</b> <input type="checkbox"/> Clear/Transparent <input checked="" type="checkbox"/> Cloudy/Somewhat Turbid <input type="checkbox"/> Opaque/Turbid <input type="checkbox"/> Other: _____	
	<b>Water Color:</b> <input type="checkbox"/> No Color <input checked="" type="checkbox"/> Brown/Muddy <input type="checkbox"/> Green <input type="checkbox"/> Milky/White <input type="checkbox"/> Tannic <input type="checkbox"/> Other: _____	
	<b>Water Surface:</b> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Oily sheen: Does it break when disturbed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (circle one) <input checked="" type="checkbox"/> Algae <input type="checkbox"/> Foam <input type="radio"/> Greater than 3" high <input type="radio"/> It is pure white <input type="checkbox"/> Other: _____	
	<b>Water Odor:</b> <input checked="" type="checkbox"/> Natural/None <input type="checkbox"/> Gasoline <input type="checkbox"/> Sewage <input type="checkbox"/> Rotten Egg <input type="checkbox"/> Fishy <input type="checkbox"/> Chlorine <input type="checkbox"/> Other: _____	
	<b>Trash:</b> <input type="checkbox"/> None <input checked="" type="checkbox"/> Yes, I did a cleanup <input type="checkbox"/> This site needs an organized cleanup	
	<b>Photos:</b> 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 <a href="mailto:AAS@gaepd.org">AAS@gaepd.org</a> .	
COMMENTS	<b>Any changes since you last sampled at this site? If yes, please describe.</b>	
	Yes. Noticed that a large area of the east bank has collapsed since my last monitoring visit. Also, there is now a beaver dam of just upstream of where we sample.	

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

# GEORGIA ADOPT-A-STREAM: Macroinvertebrate Form (page 2)

METHODS	<b>Stream Type:</b> <input checked="" type="checkbox"/> Rocky Bottom Stream <input type="checkbox"/> Muddy Bottom Stream		
	<b>Method Used:</b> <input checked="" type="checkbox"/> Kick seine (2 x 2 ft area) <input type="checkbox"/> D-Frame net (1 x 1 area) <b>Total Area Sampled:</b> <u>16</u> ft <sup>2</sup>		
	<b>Habitats Sampled:</b> <input checked="" type="checkbox"/> Leaf Packs/Woody Debris <input type="checkbox"/> Vegetated Bank Margin <input checked="" type="checkbox"/> Riffle <input type="checkbox"/> Streambed with silty area (very fine particles) <input type="checkbox"/> Streambed with Sand or small gravel		
	<b>Directions:</b> <i>Consult the macroinvertebrate monitoring manual for sampling guidelines</i> 1. Separate the macroinvertebrates into the different taxa groupings listed in the table below. 2. Note which <b>taxa</b> are present and their <b>abundance code</b> based on the number of individuals present in your sample. Enter these codes in the boxes below for each taxa. <i>Abundance Codes: R (rare)=1-9, C (common)=10-99, and D (dominant)=100 individuals or greater</i>		
TAXA GROUPS	SENSITIVE TAXA	SOMEWHAT SENSITIVE TAXA	TOLERANT TAXA
	<input type="checkbox"/> Stonefly Nymphs <input checked="" type="checkbox"/> Mayfly Nymphs <input type="checkbox"/> Water Penny Larvae <input type="checkbox"/> Riffle Beetle Larvae/Adults <input type="checkbox"/> Aquatic Snipe Flies <input checked="" type="checkbox"/> Caddisflies <input type="checkbox"/> Gilled Snails	<input checked="" type="checkbox"/> Common Net Spinning Caddisflies <input type="checkbox"/> Dobsonfly/Helgrammite & Fishfly <input checked="" type="checkbox"/> Dragonfly & Damselfly Nymphs <input checked="" type="checkbox"/> Crayfish <input checked="" type="checkbox"/> Crane Flies <input type="checkbox"/> Aquatic Sow Bugs <input type="checkbox"/> Scud <input type="checkbox"/> Clams & Mussels	<input type="checkbox"/> Midge Fly Larvae <input checked="" type="checkbox"/> Black Fly Larvae <input checked="" type="checkbox"/> Lunged Snails <input type="checkbox"/> Aquatic Worms <input checked="" type="checkbox"/> Leeches
	<input checked="" type="checkbox"/> # groups times 3 = <u>6</u>	<input checked="" type="checkbox"/> # groups times 2 = <u>8</u>	<input checked="" type="checkbox"/> # groups times 1 = <u>3</u>
WATER QUALITY INDEXING	Now add together the three index values to get your <b>Water Quality Index Score</b> = <u>17</u> Use this score to find out your <b>Water Quality Rating</b> 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.		
	<h2>Water Quality Rating</h2> <input type="checkbox"/> Excellent (>22) <input checked="" type="checkbox"/> Good (17-22) <input type="checkbox"/> Fair (11-16) <input type="checkbox"/> Poor (<11)		
OTHER	<b>Optional: Do you see any of the following in your samples? Please count number of individuals.</b>		
	<input checked="" type="checkbox"/> Fishes # : <u>8</u> <input type="checkbox"/> Asian Clams # : _____ <input type="checkbox"/> Salamanders # : _____	<input type="checkbox"/> Tadpoles # : _____ <input type="checkbox"/> Nonnative Crayfish Which species? _____	