



Biological Assessment Introductory

* Recommended frequency – no more than three times a year, preferably from mid-July to mid-October *

Date: _____ Time: _____

UTM or GPS Location: _____

Other Volunteers Involved: _____

Was the stream dry when it was monitored? Yes No

Were Benthic Macroinvertebrates Found? (If no, please provide any relevant comments in the "Other Assessment Observations and Notes" section at the end of this form.)

Benthic Macroinvertebrates (record the number of each collected, then total each group)

High Quality Group (pollution intolerant)			Middle Quality Group (somewhat pollution tolerant)			Low Quality Group (pollution tolerant)			
Tally Column	Total # Found	HQ BMI	Tally Column	Total # Found	MQ BMI	Tally Column	Total # Found	LQ BMI	
		Caddisfly			Alderfly			Aquatic Worm	
		Dobsonfly			Backswimmer				
		Mayfly			Crane Fly			Black Fly	
		Riffle Beetle			Crawdada			Bloodworm	
		Snail (not pouch)			Crawling Water Beetle			Flatworm	
		Stonefly						Leech	
		Water Penny Beetle			Damselfly			Midge Fly	
Total		(A)			Dragonfly			Mosquito	
					Giant Water Bug			Pouch Snail	
					Limpet			Rat-tailed Maggot	
					Mussels/Clams				
					Orbsnail			Water Scavenger Beetle	
					Predaceous Diving Beetle				
					Scud			Total	(C)
					Sowbug				
					Water Boatman				
					Water Mite				
					Water Scorpion				
					Water Strider				
		Whirligig Beetle							
			Total		(B)				

Other: _____ (no tolerance value assigned)

Index of Biotic Integrity (IBI) = $\frac{(A \times 3) + (B \times 2) + (C \times 1)}{A + B + C}$ = _____

Benthic Macroinvertebrates Collection Time (check one)

- 0-15 min. 15-30 min. 30-45 min. More than 45 min.

Collection Nets (How many nets are you using to collect critters?)

- 1 2 3 4 5 6+

Identification Confidence Level (Are you confident that your identification is correct?)

- I'm not sure
 I think they've been identified correctly
 Some are definitely correct, I'm not sure about others (Please clarify in "Other Assessment Observations and Notes" section at the end of this form)
 I'm fairly confident they've all been correctly identified
 I guarantee they have been identified correctly

Stream Reach Length (How far along the stream did you search?)

- 0-25 meters 25-50 meters 50-75 meters 75-100 meters 100+ meters

Microhabitats (check all present in stream reach, check if sampled)

	Present	Sampled		Present	Sampled
Algae Mats	<input type="checkbox"/>	<input type="checkbox"/>	Leaf Packs	<input type="checkbox"/>	<input type="checkbox"/>
Logjams	<input type="checkbox"/>	<input type="checkbox"/>	Rocks	<input type="checkbox"/>	<input type="checkbox"/>
Root Wads	<input type="checkbox"/>	<input type="checkbox"/>	Weed Beds	<input type="checkbox"/>	<input type="checkbox"/>
Fallen Trees	<input type="checkbox"/>	<input type="checkbox"/>	Undercut Banks	<input type="checkbox"/>	<input type="checkbox"/>
Silt/Muck	<input type="checkbox"/>	<input type="checkbox"/>	Riprap	<input type="checkbox"/>	<input type="checkbox"/>
Sand	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging Vegetation	<input type="checkbox"/>	<input type="checkbox"/>
Junk (tires, garbage, etc.)	<input type="checkbox"/>	<input type="checkbox"/>			
Other (describe) _____				<input type="checkbox"/>	<input type="checkbox"/>

Stream Habitat Type (check all types sampled in stream reach)

- Riffle Run Pool

Aquatic Plant Cover of Streambed (at transect – check one)

- 0-25% 25-50% 50-75% 75-100%

Algae Cover of Streambed (at transect – check one)

- 0-25% 25-50% 50-75% 75-100%

Is sewage evidence algae present in the stream?

- No Yes If yes, please contact your local Field Office (www.iowadnr.gov/fieldoffice)

Invasive Species (check all found)

- Eurasian water milfoil Curly-leaf pondweed Zebra mussels
 Brittle naiad Purple Loosestrife Chinese mystery snails
 Bighead Carp Silver Carp Rusty Crawfish

Other Assessment Observations and Notes
