(Modified wording and metric scores from Plafkin et al. 1989)

Site or Reach ID:		Stream Name:	
Latitude:		Longitude:	
Watershed:			
Date:	Time:	Investigators:	
Weather last 72 hours			
Description of Site Location			
Description of 100 meter assessed			
Predominant Surrounding Land Use			
Average Stream Wide	th:	Average Stream Depth:	
Stream Velocity (measured or defined as slow, moderate, or fast):			
Other Notes:			

Instructions:

- 1. Select 100-meter stretch to be evaluated. You may find it helpful to split the 100 meters up into easily definable sections for evaluation. Note the top and bottom of your stretch to be evaluated.
- 2. Review the 10 habitat parameters that you will be evaluating in this assessment.
- 3. Walk or otherwise visually inspect the entire 100-meter stretch to be evaluated. You may find it helpful to sketch your site on the graph paper provided, making note of the riffle areas, pools, runs, glides, and other features (log jams/debris, etc)
- 4. Begin the habitat assessment. You may want to use the graph paper to help estimate percentages needed to make the assessment. You may also want to use a process of elimination eliminating the condition categories that do not describe your site.
- 5. Add all of the sub scores together to get a final score at the bottom of page 4.

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Site or Reach ID:		Stream Name:		
Latitude:		Longitude:		
Date:	Time:	Investigators:		
TI I'' (D	Condition Category			
Habitat Parameter	0.41			n.
1 F. '6	Optimal 700	Suboptimal	Marginal	Poor
1. Epifaunal Substrate/	Greater than 70% stable habitat: mix of	40-70% mix of stable habitat; presence of	20-40% mix of stable habitat; habitat	Less than 20% stable habitat; lack of
Available Cover	snags, submerged	additional substrate	availability less than	habitat is obvious;
(attachment sites	logs, undercut banks,	that may not yet be	desirable; substrate	substrate unstable or
for macro-	cobble or other stable	prepared for	frequently disturbed	lacking.
invertebrates and	habitat (logs and	colonization.	or removed.	
overhead cover for	snags are not new			
fishes)	fall).			
SCORE	18	13	8	3
Comments:				
2. Embeddedness	Gravel, cobble, and	Gravel, cobble, and	Gravel, cobble, and	Gravel, cobble, and
_v ====================================	boulder particles in	boulder particles in	boulder particles in	boulder particles in
	riffles and runs are 0-	riffles and runs are	riffles and runs are	riffles and runs are
	25% surrounded by	25-50% surrounded	50-75% surrounded	>75% surrounded by
	fine sediment (e.g. –	by fine sediment	by fine sediment	fine sediment (e.g. –
	sand or silt).	(e.g. – sand or silt).	(e.g. – sand or silt).	sand or silt).
SCORE	18	13	8	3
Comments:				
3. Velocity/Depth	All four	Only 3 of the 4	Only 2 of the 4	Dominated by 1
Regime	velocity/depth	combinations are	combinations are	velocity/depth
	combinations present	present.	present.	regime.
	(slow-deep, slow-			
	shallow, fast-deep,			
	fast-shallow).		•	-
SCORE	18	13	8	3
Comments:				
4. Sediment	Little or no	Some new increases	Moderate deposition	Heavy deposits of
Deposition	enlargement of	in bar formation,	of new gravel, sand	fine material,
_	islands or point bars	mostly from gravel,	or fine sediment on	increased bar
	and less than 5% of	sand or fine	old and new bars;	development; more
	the bottom affected	sediment; 5-30% of	30-50% of the	than 50% of the
	by sediment	the bottom affected;	bottom affected;	bottom changing
	deposition.	slight deposition in	sediment deposits at obstructions,	frequently; pools almost absent due to
		pools.	constrictions, and	substantial sediment
			bends; moderate	deposition.
			deposition of pools	asposition.
			prevalent.	
SCORE	18	13	8	3
Comments:				

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Condition Category				
Optimal	Suboptimal	Marginal	Poor	
Water reaches base of both banks, and minimal amount of channel substrate is exposed.	Water fills over 75% of the available channel; or less than 25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.	
18	13	8	3	
Channel straightening or dredging absent or minimal; stream with normal pattern	Some channel straightening present, usually in areas of bridges; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present, but recent channelization is not present.	Channel straightening may be extensive. Man-made materials – hard engineering, large rocks, cement channels, pipes, riprap, etc. present on both banks; and 40-80% of stream reach channelized and disrupted.	Banks covered with man-made materials including hard engineering, large rocks, cement channels, pipes, riprap, etc.; over 80% of reach channelized and disrupted. Instream habitat greatly altered or removed entirely.	
	II.			
	Water reaches base of both banks, and minimal amount of channel substrate is exposed. 18 Channel straightening or dredging absent or minimal; stream with	Optimal Water reaches base of both banks, and minimal amount of channel substrate is exposed. Channel substrate is exposed. 18 Channel straightening or dredging absent or minimal; stream with normal pattern Some channel straightening present, usually in areas of bridges; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present, but recent channelization is not	Optimal Suboptimal Marginal Water reaches base of both banks, and minimal amount of channel substrate is exposed. Of the available channel; or less than 25% of channel substrate is exposed. Water fills 25-75% of the available channel; or less than 25% of channel substrates are mostly exposed. I8 13 8 Channel straightening or dredging absent or minimal; stream with normal pattern Some channel straightening present, usually in areas of bridges; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present, but recent channels, pipes, riprap, etc. present on both banks; and 40-80% of stream reach channelized	

7. Frequency of	Occurrence of riffles	Occurrence of riffles	Occasional riffle or	Generally all flat
Riffles (or bends)	relatively frequent.	infrequent.	bend; bottom	water or shallow
Measure distance			contours provide	riffles - poor habitat.
between riffles - top	The distance	The distance	some habitat	
of downstream riffle	between the riffles	between riffles		The distance
to the bottom of	divided by the width	divided by the width	The distance	between riffles
upstream riffle. If	of the stream is less	of the stream is	between riffles	divided by the width
there are more than	than 7.	between 7 to 15.	divided by the width	of the stream is
two riffles, take the			of the stream is	greater than 25.
average distance.			between 15-25.	
SCORE	18	13	8	3
8. Bank Stability	Banks stable;	Moderately stable;	Moderately unstable;	Unstable; many
(score each bank)	evidence of erosion	infrequent, small	30-60% of bank in	eroded areas; "raw"
	or bank failure	areas of erosion	reach has areas of	areas frequent along
Note: determine left	absent or minimal.	mostly healed over.	erosion.	straight sections and
or right side by	Less than 5% of	5-30% of bank in		bends; obvious
facing downstream	bank affected.	reach has areas of		wearing away of
		erosion.		bank; 60-100% of
				bank has erosional
				scars.
SCORELeft	9	6.5	4	1.5
SCORERight	9	6.5	4	1.5
Comments:				
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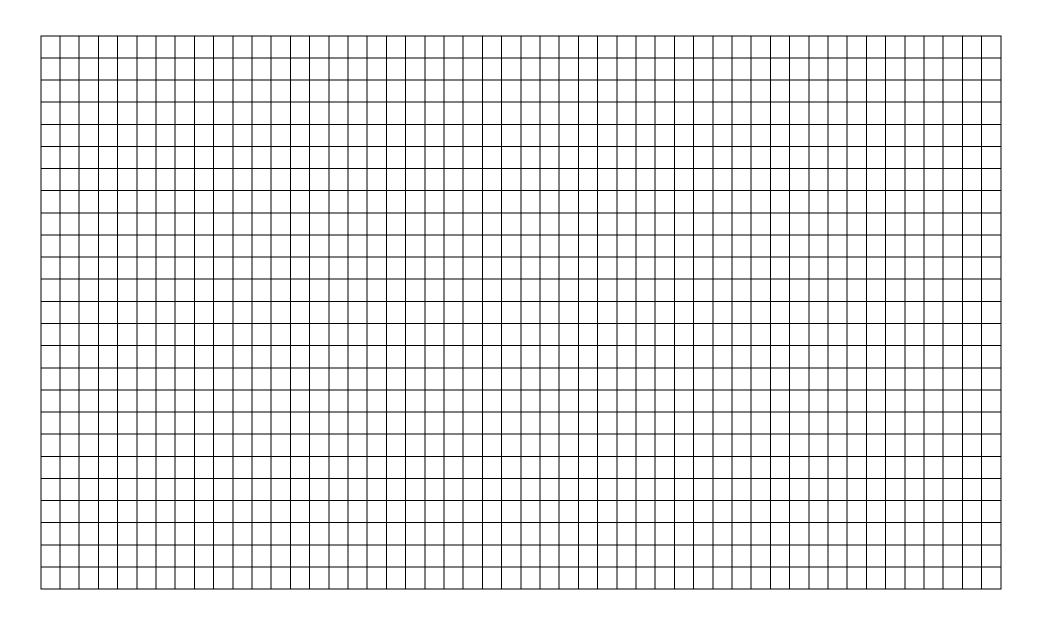
Habitat Parameter	Condition Category				
	Optimal	Suboptimal	Marginal	Poor	
9. Bank Vegetative Protection (score each bank)	More than 90% of the streambank surfaces and immediate riparian zone covered by vegetation, including trees, understory shrubs, wetland plants; vegetative disruption through grazing or mowing minimal or not evident.	70-90% of the streambank surfaces covered by vegetation but one class (trees, shrubs, grasses) of plants is not well represented.	50-70% of the streambank surfaces covered by vegetation; patches of bare soil or closely cropped vegetation common.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters (or less) in height – ex. Mowed or grazed.	
SCORE Left	9	6.5	4	1.5	
SCORE Right	9	6.5	4	1.5	
	Comments:				
10. Riparian	Width of riparian	Width of riparian	Width of riparian	Width of riparian	
Vegetative Zone	zone >18 meters;	zone 12-18 meters;	zone 6-12 meters;	zone <6 meters:	
Width (score each	human activities (i.e.,	human activities	human activities	little or no riparian	
bank riparian zone)	parking lots, roads, clear-cuts, lawns, or crops) have not impacted zone.	have impacted zone only minimally.	have impacted zone a great deal.	vegetation due to human activities.	
SCORE Left	9	6.5	4	1.5	
SCORE Right	9	6.5	4	1.5	
Comments:					

TOTA	L SCORE:	

What does this mean?

- You can compare the total score to itself each year.
- You may also want to compare the habitat score of your site to the habitat score at a "pristine" stream within your watershed.
- General habitat conditions:
 - o Total Score greater than 153 = Optimal Habitat Conditions
 - o Total Score between 130 and 152 = Suboptimal Habitat Conditions
 - o Total Score between 80 and 129 = Marginal Habitat Conditions
 - o Total Score less than 80 = Poor Habitat Conditions

Stream Name:	Reach ID	Date:
Monitor Name:		



Stream Name:Monitor Name:	Reach ID	Date:	