

RipRAM Basic Information Sheet

Assessment Area Name:		
Project Name:		
Assessment Area ID #:		
Project ID #:	Date:	
Assessment Team Members for This AA:		
Average Bankfull Width (visual estimate when conducting the assessment from a bridge):		
Approximate Length of AA (10 times bankfull width, min 100 m, max 200 m):		
Downstream Point Latitude:	Longitude:	Datum:
Upstream Point Latitude:	Longitude:	
<p>Stream confinement:</p> <p style="text-align: center;"> <input type="checkbox"/> Confined <input type="checkbox"/> Non-confined </p> <p>In non-confined riverine systems, the width of the valley across which the system can migrate without encountering a hillside, terrace, or other natural feature that is likely to prevent further migration is at least twice the average bankfull width of the channel. In confined riverine systems, the width of the valley across which the system can migrate without encountering a hillside, terrace, hillside, terrace, or other natural feature is less than twice the average bankfull width of the channel.</p>		
<p>AA Category:</p> <p> <input type="checkbox"/> Restoration <input type="checkbox"/> Mitigation <input type="checkbox"/> Impacted <input type="checkbox"/> Ambient <input type="checkbox"/> Reference <input type="checkbox"/> Training <input type="checkbox"/> Other: </p>		
<p>Did the river/stream have flowing water at the time of the assessment? <input type="checkbox"/> yes <input type="checkbox"/> no</p>		
<p>What is the apparent hydrologic flow regime of the reach you are assessing?</p> <p>The hydrologic flow regime of a stream describes the frequency with which the channel conducts water. <i>Perennial</i> streams conduct water all year long, whereas <i>ephemeral</i> streams conduct water only during and immediately following precipitation events. <i>Intermittent</i> streams are dry for part of the year, but conduct water for periods longer than ephemeral streams, as a function of watershed size and water source.</p> <p style="text-align: center;"> <input type="checkbox"/> perennial <input type="checkbox"/> intermittent <input type="checkbox"/> ephemeral </p>		

Photo Identification Numbers and Description:

	Photo ID No.	Description	Comments
1		Upstream left bank	
2		Upstream right bank	
3		Middle left	
4		Middle right	
5		Downstream left bank	
6		Downstream right bank	

Site Location Description:**General Comments:**

RipRAM Scoring Sheet

AA Name:		Date:
Metric	Metric Score	Comments
Metric 1: Total Vegetation Cover (pg. 13)		
Metric 2: Vegetation Structure (pg. 16)		
Metric 3: Vegetation Quality (pg. 18)		
Metric 4: Age Diversity and Natural Regeneration (pg. 20)		
Metric 5: Riparian Vegetation Width (pg. 22)		
Metric 6: Riparian Soil Condition and Permeability (pg. 27)		
Metric 7: Macroinvertebrate Habitat Patch Richness (pg. 29)		
Metric 8: Anthropogenic Alterations to Channel Morphology (pg. 34)		
Index Score <i>(Average of eight metric scores)</i>		

Metric 1: Total Vegetation Cover Worksheet	
Base Score	Description
	Riparian Cover Includes Trees, Shrubs, and Helophytes, but not annual grasses
4	>80% of riparian cover (excluding annual grasses)
2	50 - 80% of riparian cover (excluding annual grasses)
1	10 -50% of riparian cover (excluding annual grasses)
0	<10% of riparian cover (excluding annual grasses)
Base Score Modifiers:	
+2	If the connectivity between riparian zone and adjacent natural upland ecosystem is >90% (assess both sides of the stream corridor in aggregate)
+1	If the connectivity is 50%-90% in total (assess both sides of the stream corridor in aggregate)
-1	If the connectivity is <25% in total (assess both sides of the stream corridor in aggregate)
	Total Score
	Metric Score (transfer to main score sheet)

Metric 2: Vegetation Structure Worksheet	
Base Score	Description
4	>75% of tree cover
2	50-75% of tree cover OR <50% of tree cover with >25% shrub cover
1	Tree cover <50% with shrub cover between 10 - 25%
0	Tree cover <50% with shrub cover <10%
Base Score Modifier (choose all that apply):	
+2	Greater than 50% of the <i>channel area</i> has helophytes or shrubs (may include shrubs that are rooted above the <i>channel area</i> and hang down into it, such as blackberry vines)
+1	25 - 50% of the <i>channel area</i> has helophytes or shrubs
+1	trees and shrubs are in the same patches throughout the AA and have overlap
-1	trees and shrubs are in separate patches, without continuity or overlap
-1	Understory/ground vegetation layer is dominated by invasive species (herbaceous or woody species), excluding annual grasses (>50% of AA)
-2	understory is heavily grazed or cleared or mowed (>25% of AA)
	Total Score
	Metric Score (transfer to main score sheet)

Metric 3: Tree and Shrub Species Present Worksheet

Tree Species in AA		
Species Name	Native?	Codominant?
		Total Native & Codominant:
Shrub Species in AA		
Species Name	Native?	
		Total Native:

Metric 3: Vegetation Quality Worksheet

Base Score	Description
4	Number of codominant native tree species ≥ 6
2	Number of codominant native tree species 4-5
1	Number of codominant native tree species 1-3
0	Absence of codominant native tree species
Base Score Modifiers:	
+2	If tree community is continuous along river and covers $\geq 75\%$ of the channel edge zone of the assessment area (both edges combined)
+1	Tree community is nearly continuous and covers 50-75% of the channel edge zone of the assessment area (both edges combined)
+1	If the riparian community is structured in gallery
+1	The number of native shrub species ≥ 4
-1	If there are some anthropogenic modifications in the assessment area that displace plant communities (presence of wells, buildings, channel maintenance roads, tree cutting/removal, etc.)
-1	If there are some <u>isolated</u> species of non-native trees/shrubs/vines/herbs with limited coverage
-2	If there is a presence of <u>communities</u> of non-native trees/shrubs/vines/herbs including multiple species with large coverage
-2	Presence of high amounts of garbage in the riparian zone (e.g. homeless encampments) that displace or degrade plant communities
	Total Score
	Metric Score (transfer to main score sheet)

Metric 4: Age Diversity and Natural Regeneration of Co-dominant Tree Species Worksheet	
Left Bank score	Right Bank score
Average (Metric Score) <i>(transfer to main score sheet)</i>	

Metric 5: Riparian Zone Width	
Left Bank score	Right Bank score
Average (Metric Score) <i>(transfer to main score sheet)</i>	

Metric 6: Riparian Soil Condition and Permeability Worksheet	
Left Bank score	Right Bank score
Average (Metric Score) <i>(transfer to main score sheet)</i>	

Metric 7: Habitat Patch Richness Worksheet	
Habitat type	Presence (at least 3m ²)
Cobbles and Boulders > 64 mm; tennis ball size and larger (within bankfull contour)	
Coarse gravel 16 – 64 mm; marble to tennis ball (within bankfull contour)	
Fines and Sand 2 mm or less in size (within bankfull contour)	
Leaf packs (within bankfull contour or on the floodplain)	
Fine woody debris (within bankfull contour or on the floodplain)	
Large (or coarse) woody debris (within bankfull contour or on the floodplain)	
Overhanging vegetation (within bankfull contour)	
Aquatic vegetation (within bankfull contour)	
Total Number of habitat types	
Base Score Modifiers indicating excessive sediment and/or nutrients	
Percent fines and sand greater than 40% (within bankfull contour)	-1
Greater than 25% of the wetted channel has helophyte cover (within bankfull contour)	-1
>50% cover of floating or dead algae mats (within bankfull contour)	-1
Final number of habitat types	
Metric Score	

Metric 8: Anthropogenic Alterations to Channel Morphology Worksheet	
Left Bank score	Right Bank score
Average (Metric Score) <i>(transfer to main score sheet)</i>	