



Sample No. \_\_\_\_\_ Date: YYYY / MM / DD Evaluator(s) \_\_\_\_\_

Stream/Opening Identification

District: \_\_\_\_\_ Opening ID: \_\_\_\_\_ Licensee: \_\_\_\_\_
Forest Licence: \_\_\_\_\_ Block: \_\_\_\_\_ Harvest Year: \_\_\_\_\_
Range Licence: \_\_\_\_\_ Range Unit: \_\_\_\_\_
Stream Name: \_\_\_\_\_ Stream Location: In block [ ] Beside block [ ]
Stream Class on plans: \_\_\_\_\_ Stream Class in field: \_\_\_\_\_ Reach length (m): \_\_\_\_\_
Reach Location: \_\_\_\_\_ to \_\_\_\_\_ m US [ ] DS [ ] from \_\_\_\_\_
UTM at US [ ] DS [ ] end of reach: Zone: \_\_\_\_ East: \_\_\_\_\_ North: \_\_\_\_\_
Channel width (m): \_\_\_\_\_ Channel depth (m): \_\_\_\_\_ Channel Gradient (%): \_\_\_\_\_
Channel Morphology: Riffle/pool or Cascade/pool [ ] Step/pool [ ] Non-alluvial [ ]
















Riparian Retention Information in RMA

Average distance (m) from stream edge to merchantable trees: Left Side Right Side
Average distance (m) from stream edge to first signs of current harvesting (partial or complete, max. 100 m):
Average distance (m) from stream edge to start of complete harvesting (i.e. a road or clearcut, max. 100 m):

Table with 5 columns: % Retention in first 10 m of the RMA (all classes), % Retention in rest of the RRZ (for S1, S2, S3), % Retention in rest of the RMZ (all classes), Dominants & codominants on left side, Dominants & codominants on right side, Understory on left side, Understory on right side.

Photo Section

Table with 2 columns: Photo #, Photo Description

Field Data									
Question Indicator	Point Indicators (Measure at 6 equidistant points or transects along the reach)						Total	Mean	
	Transect No.	1	2	3	4	5			6
Q7(a)	% Moss								
Q8 (a)	% Fines/sands								
Q9 (a)	No. sensitive invertebrate types								
Q9 (b)	No. major invertebrate groups								
Q9 (c)	No. insect types								
Q9 (d)	Total No. invertebrate types								
Q13 (b)	% Shade								
Q14 (a)	% Disturbance - increaser species								
Q14 (b)	% Noxious weeds/invasives								
Record the number of different types of invertebrates observed in each sub-group, at each transect sampled. The numbers recorded under each "transect number" are the numbers you use to complete the point indicators table above.									
			Transect Number						
Major Group	Sub Group	Sensitivity	1	2	3	4	5	6	
Insects	Mayflies 	Yes							
	Stoneflies 	Yes							
	Caddisflies 	Yes							
	Chironomids ('midges') 	No							
	Other Diptera 	No							
	Riffle beetle larvae 	Yes							
	Other beetle larvae, adults 	No							
Bivalves	Clams, mussels 	Yes							
Snails	Right side snails 	Yes							
	Left side snails 	No							
Flatworms	Flatworms ("Planaria") 	No							
Nematodes	Nematodes 	No							
Worms	Segmented worms 	No							
Crustaceans	Crustaceans 	No							
Arachnids	Spiders, mites 	No							
	Others (Consult field guide in Appendix 2 of Protocol for identification of "other" invertebrates and their sensitivity)								

Field Data					
Question (Indicator) No.	Stream Type	Continuous Indicators (These are measured all along the reach to determine total length, numbers or areas present, as appropriate. Record the totals in the "Total" column, even if the total is an estimate. Calculate the percentage of the reach length, riparian area or number of trees represented by each total.)		Total	%
Q1(a)	RC	Mid-channel bars, wedges (m) measure all but no overlap			
Q1(c)	RC	Lateral bars (m) measure all but no overlap			
Q1(b,c)	RCS	Multiple or braided channels (m) measure all but no overlap			
Q1(a)	Non-alluvial	Moss along the channel bed (m) measure all but no overlap			
Q2	All	Non-erodible banks (m) only measure where naturally non-erodible on both sides			
Q2(a,a,b)	All	Recently disturbed bank (m) measure both sides, but no overlap			
Q2(c,c)	RCS	Stable undercut bank (m) measure both sides, but no overlap			
Q2(b,b,a)	All	Deep rooted bank (m) measure both sides, but no overlap			
Q2(d,d,c)	All	Upturned bank root wads (m) measure both sides, but no overlap			
Q4(a)	RC	Pool length (m)			
Q10	All	No. New windthrow			
Q10	All	No. Old windthrow			
Q10	All	No. Standing trees			NA
Q11(a)	All	Bare soil in first 10m (m <sup>2</sup> )			
Q13(a)	All	Bare soil exposed to rain in first 10m (m <sup>2</sup> )			
Q11(b)	All	Bare soil in first 10m, plus all bare soil hydrologically connected to first 10m (m <sup>2</sup> )			
Q11(c)	All	Disturbed ground in first 10m (m <sup>2</sup> )			
Q11(d)	All	Disturbed ground in first 10m, plus all disturbed ground hydrologically connected to first 10m (m <sup>2</sup> )			

% New Windthrow = (# New Windthrow) / (# New Windthrow + # Standing Trees) X 100

% Old Windthrow = (# Old Windthrow) / (# Old Windthrow + # New Windthrow + # Standing Trees) X 100

Other Indicators to Note (Answer Yes, No, or NA as appropriate for the Questions)				
<b>Q01-04 Boulder Line/Step Pool Characteristics - For Step-Pool Streams Only</b>				
		<b>Yes</b>	<b>No</b>	<b>NA</b>
(Use Table 1 to help answer the questions)				
Q1(a)	Do 50% or more of the boulder lines/steps span the channel?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q1(b)	Do 25% or more of the boulder lines/steps have moss?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q4(a)	Do 25% or more of the boulder lines/steps have plunge pools as deep as the largest rock in the line?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q4(b)	Do cascades lacking boulder lines/steps represent less than 25% of the reach?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q01 Sediment and LWD Storage Characteristics - For Non-Alluvial Streams Only</b>				
Q1(b)	Do sediment and/or LWD deposits that completely fill the channel up to the top of the banks represent less than 5% of the reach length?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q1(c)	Are sediment deposits widely distributed in small pockets along the stream reach, not concentrated in a few relatively large compartments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q03 Wood Characteristics (Use Table 2 to help answer the questions. Q3(b) is NA for non-alluvial streams)</b>				
Q3(a)	Is the wood in the channel mainly old?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q3(b)	Do 1-12 accumulations of wood span the channel?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q3(c,c,b)	Do half or more of the wood accumulations present lack new wood?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q3(d,d,c)	Is the wood in the channel mainly across or diagonal to the main axis of the stream?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q3(e,e,d)	Is the wood in the channel intact; i.e., not recently lost or removed by hand, catastrophic floods, debris flows, debris torrents?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q04 Surface Sediment Texture - For Riffle and Cascade Pool Streams Only</b>				
Q4(b)	Is the texture of the surface substrate mainly heterogenous?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q04 Deep Pools - For Riffle, Cascade, and Step Pool Streams Only</b>				
Q4(b)	Are two or more deep pools present? (Tip: A deep pool is a pool whose depth from the deepest spot of the pool to the top of the bank is twice the same depth at riffle crests)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q05 Connectivity</b>				
Q5(a)	Are temporary blockages to fish, sediment or debris absent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q5(b)	Is down-cutting that blocks fish movements or isolates the channel from the adjacent floodplain absent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q5(c)	Are sediment or debris buildups absent at or in all crossing structures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q5(d)	Is down-cutting below any crossing structure that blocks fish movements upstream by any size fish at any time absent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q5(e)	Are all crossing structures on fish bearing streams open-bottomed structures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Indicators to Note (Answer Yes, No, or NA as appropriate for the Questions)				
		Yes	No	NA
Q5(f)	Is dewatering absent?	<input type="checkbox"/>	<input type="checkbox"/>	
Q5(g)	Are trails, roads or levees that isolate off-channel areas or divert normal overland flow away from the reach absent?	<input type="checkbox"/>	<input type="checkbox"/>	
Q5(h)	Is all water in the stream still flowing in its original channel, not withdrawn or diverted elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Q06 Fish Cover Diversity – For Fish-Bearing Streams Only</b> (To be considered present, each type of cover should cover 1% or more of the total channel area)				
Q6(a)	Are deep pools present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q6(b)	Are unembedded boulders present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q6(c)	Is woody debris or other organic debris present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q6(d)	Are undercut banks present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q6(e)	Is aquatic vegetation present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q6(f)	Is overhanging vegetation present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q6(g)	Are there stable gravels and cobbles present with spaces for fish to hide in?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q08 Fine Inorganic Sediments</b>				
Q8(a)	Is the channel free of fine or sand/sized inorganic sediments that “blanket” the streambed anywhere?	<input type="checkbox"/>	<input type="checkbox"/>	
Q8(c)	Is the substrate mostly unembedded?	<input type="checkbox"/>	<input type="checkbox"/>	
Q8(b)	Is the channel free of “quick sand” or “quick gravel”?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Q13 Bank Microclimate</b>				
Q13(c)	Are moisture-loving plants present and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	
Q13(d)	Are the bank soils all moist and cool?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Q15 Riparian Structure</b> (Use Table 3 to help answer this question)				
Q15(a)	Does the distribution and relative abundance of the vegetation layers and forest components present collectively approach 75% of what the healthy unmanaged riparian plant community would normally have along the reach?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Q15 Riparian Form, Vigor, and Recruitment</b> (Use Table 4 to help answer this question)				
Q15(b)	Does the form, vigor and recruitment of the vegetation layers or forest components present collectively approach 75% of what the healthy unmanaged riparian plant community would normally be along the reach?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Q15 Browsing, Grazing</b>				
Q15(c)	Are all shrubs free of heavy browsing?	<input type="checkbox"/>	<input type="checkbox"/>	
Q15(d)	Is most (90%) of the available forage free of heavy grazing?	<input type="checkbox"/>	<input type="checkbox"/>	

Field Data Summary Tables				
Table 1. Boulder-line/step characteristics of step-pool type reaches (Q1B, Q4B)				
Number of boulder lines/steps	Number of channel spanning boulder lines/steps	Number of boulder lines/steps with moss	Number of boulder lines/steps with a deep plunge pool	Length of reach with no boulder steps and plunge pools

Table 2. Wood characteristics of sample reach (Q3)				
Number of wood accumulations	Number of wood accumulations with new wood	Number of channel spanning wood accumulations	Main age of wood in each accumulation (Record "O" for old, "N" for new)	Main orientation of wood in each accumulation (Record "P" for parallel, "X" for across or diagonal)

Table 3. Riparian Structure (Q15a). Using the table below, estimate whether the distribution or relative abundance of the forest components present collectively approach 75% of what the healthy unmanaged riparian plant community would normally be along the reach.											
Snags (%)	Gaps (%)	Over-story trees (%)	Under-story trees (%)	Tall shrubs (%)	Low shrubs (%)	Herbs (%)	Mosses (%)	Lichens (%)	CWD (%)	Total (Sum of %'s)	Average % (Answer to Q15a)

Table 4. Riparian Vegetation Form, Vigor, and Recruitment (Q15b). Using Yes or No answers for each table cell below, determine if 75% or more of the cells have Yes answers, indicating that, collectively, form, vigor and recruitment is satisfactory.													
	Snags	Gaps	Over-story trees	Under-story trees	Tall shrubs	Low shrubs	Herbs	Mosses	Lichens	CWD	Total possible number of Yes answers	Actual number of Yes answers	% of cells with Yes answers (Answer to Q15b)
Form													
Vigor	NA	NA								NA			
Recruitment													

Riparian Effectiveness Routine Evaluation Checklist		
Question 1. Is the channel bed undisturbed?	Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Note: For Questions 1-4, decide what the predominant channel morphology is and then complete the section for that morphology only (i.e., Part A, B or C).</i></p> <p>A) Riffle-pool or cascade-pool channels</p> <p style="margin-left: 20px;">a) Less than 50% of the reach length is occupied by active sediment wedges or mid-channel bars. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b) Less than 50% of the reach has active multiple channels and/or braids. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">c) More than 50% of the reach has lateral bars. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 40px;"><i>If answer "Yes" to 2 or more, mark Yes box in Question 1.</i></p> <p>B) Step-pool channels</p> <p style="margin-left: 20px;">a) More than 50% of the steps present span the channel. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b) More than 25% of the steps have moss. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">c) Less than 25% of the reach has active multiple channels and/or braids. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 40px;"><i>If answer "Yes" to 2 or more, mark Yes box in Question 1.</i></p> <p>C) Non-alluvial channels</p> <p style="margin-left: 20px;">a) Over 25% of the channel bed length has some moss on the substrate. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b) The channel has space for storage of sediments and debris; i.e., sediment and/or LWD do not fill the channel volume or spill over the banks for any significant distance. <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">c) Sediments are widely distributed throughout the channel. Sediments are not stored in a few relatively large compartments (e.g., wedged behind an accumulation of immobile rocks or organic debris). <span style="float: right;"><input type="checkbox"/> <input type="checkbox"/></span></p> <p style="margin-left: 40px;"><i>If answer "Yes" to 2 or more, mark Yes box in Question 1.</i></p>		

Please refer to "What is Stream Channel Morphology" in the riparian protocol for descriptions, tables and figures on channel morphology. If you are using the summary table that describes the general features of each type of channel morphology, base your decision on all the characteristics listed. Take into account all of the features, i.e., try not to focus on just one or two characteristics.

<b>Question 2. Are the channel banks intact?</b>		<b>Yes</b>	<b>No</b>
		<input type="checkbox"/>	<input type="checkbox"/>
<b>A) Riffle-pool or cascade-pool channels</b>			
a)	Less than 15% of the total reach length has banks recently disturbed by stream flows, windthrow, infilling, animals (hoof shear, watering sites, crossings), roads, or harvest and silviculture activities.	<input type="checkbox"/>	<input type="checkbox"/>
b)	More than 65% of the banks on naturally erodible sections of the reach have deeply rooted vegetation (e.g., deep rooting grass species, shrubs, and trees - not moss, shallow rooting grass species, small herbs or forbs).	<input type="checkbox"/>	<input type="checkbox"/>
c)	More than 50% of the naturally erodible reach length has stable (usually vegetated) undercut banks.	<input type="checkbox"/>	<input type="checkbox"/>
d)	Less than 10% of the total reach length has recently upturned (wind thrown) root wads along the banks.	<input type="checkbox"/>	<input type="checkbox"/>
<i>If answer "Yes" to 3 or more, mark Yes box in Question 2.</i>			
<b>B) Step-pool channels</b>			
a)	Less than 10% of the total reach length has banks recently disturbed by stream flows, windthrow, infilling, animals (hoof shear, watering sites, crossings), roads, or harvest and silviculture activities.	<input type="checkbox"/>	<input type="checkbox"/>
b)	More than 75% of the banks on naturally erodible sections of the reach have deeply rooted vegetation (e.g., deep rooting grass species, shrubs, and trees - not moss, shallow rooting grass species, small herbs or forbs).	<input type="checkbox"/>	<input type="checkbox"/>
c)	More than 50% of the naturally erodible reach length has stable (usually vegetated) undercut banks.	<input type="checkbox"/>	<input type="checkbox"/>
d)	Less than 25% of the total reach length has recently upturned (wind thrown) root wads along the banks.	<input type="checkbox"/>	<input type="checkbox"/>
<i>If answer "Yes" to 3 or more, mark Yes box in Question 2.</i>			
<b>C) Non-alluvial channels</b>			
a)	More than 75% of the banks on naturally erodible sections of the reach have deeply rooted vegetation (e.g., deep rooting grass species, shrubs or trees - not moss, shallow rooting grass species, small herbs or forbs).	<input type="checkbox"/>	<input type="checkbox"/>
b)	Less than 10% of the total reach length has banks recently disturbed by stream flows, windthrow, infilling, animals (hoof shear, watering sites, crossings), roads, or harvest and silviculture activities.	<input type="checkbox"/>	<input type="checkbox"/>
c)	Less than 25% of the total reach length has recently upturned (wind thrown) root wads along the banks.	<input type="checkbox"/>	<input type="checkbox"/>
<i>If answer "Yes" to 2 or more, mark Yes box in Question 2.</i>			

Please refer to the Riparian Protocol for more descriptions of stable, vegetated undercut banks versus unstable, overhanging banks.

Question 3. Are channel LWD processes undisturbed?	Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>
<i>Note: The words "recent" and "recently" refer to the age of the riparian management activity being assessed.</i>		
A) Riffle-pool or cascade-pool channel		
a) Most wood is old and does not appear to have been recently deposited.	<input type="checkbox"/>	<input type="checkbox"/>
b) One to twelve accumulations of wood <b>span</b> the channel.	<input type="checkbox"/>	<input type="checkbox"/>
c) Half or more of all wood accumulations lack new wood (e.g., branches, treetops, bark, small logs with cut ends, recently crushed or shattered logs).	<input type="checkbox"/>	<input type="checkbox"/>
d) Wood oriented parallel to the channel banks (particularly small logs and limbs with lengths much less than the bankfull channel width) is not abundant, relative to the total amount of wood present.	<input type="checkbox"/>	<input type="checkbox"/>
e) There is no indication that natural wood was recently removed from the channel by hand, slides, torrents or catastrophic floods.	<input type="checkbox"/>	<input type="checkbox"/>
<i>If answer "Yes" to 4 or more, mark Yes box in Question 3.</i>		
B) Step-pool channel		
a) Most wood is old and does not appear to have been recently deposited.	<input type="checkbox"/>	<input type="checkbox"/>
b) One to twelve accumulations of wood are present in the channel.	<input type="checkbox"/>	<input type="checkbox"/>
c) Half or more of all wood accumulations lack new wood (e.g., branches, treetops, bark, small logs with cut ends, recently crushed or shattered logs).	<input type="checkbox"/>	<input type="checkbox"/>
d) Wood oriented parallel to the channel banks (particularly small logs and limbs with lengths much less than the bankfull channel width) is not abundant, relative to the total amount of wood present.	<input type="checkbox"/>	<input type="checkbox"/>
e) There is no indication that natural wood was recently removed from the channel by hand, slides, torrents or catastrophic floods.	<input type="checkbox"/>	<input type="checkbox"/>
<i>If answer "Yes" to 4 or more, mark Yes box in Question 3.</i>		
C) Non-alluvial channel		
a) Most wood is old and does not appear to have been recently deposited.	<input type="checkbox"/>	<input type="checkbox"/>
b) Half or more of all wood accumulations lack new wood (e.g., branches, treetops, bark, small logs with cut ends, recently crushed or shattered logs).	<input type="checkbox"/>	<input type="checkbox"/>
c) Wood oriented parallel to the channel banks (particularly small logs and limbs with lengths much less than the bankfull channel width) is not abundant, relative to the total amount of wood present.	<input type="checkbox"/>	<input type="checkbox"/>
d) There is no indication that natural wood was recently removed from the channel by hand, slides, torrents or catastrophic floods.	<input type="checkbox"/>	<input type="checkbox"/>
<i>If answer "Yes" to 3 or more, mark Yes box in Question 3.</i>		

TIP: "Old" wood is wood that was present before the treatment (i.e., the most recent harvesting or road building). "New" wood means wood that was deposited after road building and harvesting was started. This could include stems or branches that were blown off trees after harvesting started.

TIP: If half or more of the reach length is completely filled with wood, consider this to be more than 12 accumulations of wood.

<b>Question 4. Is the channel morphology intact?</b> (Mark NA if the channel is non-alluvial, and therefore lacking a riffle-pool, cascade-pool or step-pool morphology)	<b>Yes</b>	<b>No</b>	<b>NA</b>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A) Riffle-pool or cascade-pool channel</b>			
a) Pools are present along >25% of the reach.	<input type="checkbox"/>	<input type="checkbox"/>	
b) Surface sediment texture is heterogeneous and well sorted; i.e., the number and range of main sediment classes present (fines and sands, gravels, small and large cobbles, small and large boulders) is large and non-randomly distributed.	<input type="checkbox"/>	<input type="checkbox"/>	
c) At least two deep pools are present. (A deep pool is a pool with a channel depth twice the average channel depth at riffle crests).	<input type="checkbox"/>	<input type="checkbox"/>	
<i>If answer "Yes" to 2 or more, mark Yes box in Question 4.</i>			
<b>B) Step-pool channel</b>			
a) Plunge pools are frequent ( >25% of steps are associated with a plunge pool with depths similar to the size of the largest rock in the step).	<input type="checkbox"/>	<input type="checkbox"/>	
b) The channel alternates almost exclusively between steps and pools (i.e. less than 25% of the channel consists of relatively long cascades).	<input type="checkbox"/>	<input type="checkbox"/>	
c) At least two deep pools are present. (A deep pool is a pool with a channel depth twice the average channel depth at riffle crests).	<input type="checkbox"/>	<input type="checkbox"/>	
<i>If answer "Yes" to 2 or more, mark Yes box in Question 4.</i>			

TIP: A stream reach can have aspects of both a cascade-pool and a step-pool morphology. Use the predominant morphology to decide which set (A or B) of indicator statements to use.

TIP: Steep streams (with gradients between approximately 5-15%) that look like long cascades could be step-pool streams that are filled in with abundant sediment. Even steeper streams (with gradients much greater than 15%) are probably non-alluvial, especially small streams.

TIP: Only measure the lengths of the main pools present. These are the pools that extend from one side of the wetted channel to the other. Do not include the small pools that are often present behind boulders in riffles or cascades or the small backwater or back eddy pools that might be present along the margins of riffles and cascades.

<b>Question 5. Are all aspects of the aquatic habitat sufficiently connected to allow for normal, unimpeded movements of fish, organic debris, and sediments?</b>		<b>Yes</b>	<b>No</b>	<b>NA</b>
a)	Temporary blockages to fish, debris or sediments because of accumulations of debris or sediments are absent.	<input type="checkbox"/>	<input type="checkbox"/>	
b)	Down cutting in the main channel that now isolates the floodplain from normal flooding or blocks access to tributary streams or off-channel areas is absent.	<input type="checkbox"/>	<input type="checkbox"/>	
c)	Build-ups of sediment or debris above or within any crossing structures are absent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d)	There is no down cutting present below any crossing structure that blocks fish movements upstream by any size fish at any time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e)	On fish bearing streams, all crossing structures are open bottom structures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f)	Dewatering over the entire channel width due to excessive new accumulations of sediment is absent.	<input type="checkbox"/>	<input type="checkbox"/>	
g)	Off-channel or overland flow areas have not been isolated or cut off by roads or levees.	<input type="checkbox"/>	<input type="checkbox"/>	
h)	Water in the stream has not been withdrawn or diverted elsewhere.	<input type="checkbox"/>	<input type="checkbox"/>	
<i>If the answer is "No" to any statements, mark the "No" box for Question 5.</i>				

TIP: For Question 5, part (a), consider a temporary blockage a "blockage" if more than 2/3 of the flow seeps through or spills over the blockage when the water level is close to the rooted edge. Note that active beaver dams will almost always be temporary blockages.

TIP: "Down cutting" refers to channel incisement; i.e., the vertical movement of the channel downwards into the floodplain.

<b>Question 6. Does the stream support a good diversity of fish cover attributes?</b> To qualify as cover, each cover attribute should represent at least 1% of the total stream area observed. (Mark NA if the stream is non-fish bearing; i.e., classes S5 or S6)		<b>Yes</b>	<b>No</b>	<b>NA</b>
a)	Deep pool habitat is available.	<input type="checkbox"/>	<input type="checkbox"/>	
b)	Stable, unembedded boulders are present.	<input type="checkbox"/>	<input type="checkbox"/>	
c)	Stable rootwads, woody debris or other organic material that fish can hide in is present. "Other" organic debris is made up mostly of uncompacted leaf and/or wood particles that small fish can hide in.	<input type="checkbox"/>	<input type="checkbox"/>	
d)	Stable, deep-rooted undercut banks are present.	<input type="checkbox"/>	<input type="checkbox"/>	
e)	Submerged or emergent aquatic vegetation is present.	<input type="checkbox"/>	<input type="checkbox"/>	
f)	Overhanging vegetation is present within 1 m of the top of the channel.	<input type="checkbox"/>	<input type="checkbox"/>	
g)	Stable unembedded gravels and cobbles with void spaces for fish to hide in are present.	<input type="checkbox"/>	<input type="checkbox"/>	
<i>If the answer is "Yes" for five or more statements, mark the "Yes" box. Otherwise, mark the "No" box.</i>				

TIP: Question 6 is "NA" if the stream is non-fish bearing. Also, if there are no deep pools, there is no deep pool habitat.

<b>Question 7. Does the amount of moss present in shallow areas of the channel indicate a stable and productive system?</b> (Mark "NA" if the streambed is mainly organic. "Mainly" is when 90% of the reach is organic or 5 of the 6 point stations are 100% organic.)		Yes	No	NA
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a)	Moss patches are easily observed from almost any point along the margins, riffles or shallow pools of the stream. Average coverage on mineral substrates only is 1% or more of the channel bed, from the toe of one bank to the toe of the other bank.	<input type="checkbox"/>	<input type="checkbox"/>	
b)	Half or more of the moss present, even uncommon, occasional or rare patches are generally intact, not embedded with sediments, buried or damaged by scouring. Mark "NA" if no moss is present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c)	Moss not scoured, silted or buried in sediment is generally vigorous, not stressed or dead. Mark "NA" if no moss is present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>If the answer is "No" for any statement, mark the No box for Question 7. Otherwise, mark the Yes box.</i>				

<b>Question 8. Has the introduction of fine inorganic sediments been minimized?</b> (Mark "NA" if the streambed is mainly organic. "Mainly" is when 90% of the reach is organic, or 5 of the 6 point stations are 100% organic.)		Yes	No	NA
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a)	Inorganic ("gritty" feeling) fine and sand-sized sediments on the substrate are best described as little or lacking. Average coverage at point sites is less than 10%, with no sites over 50%, and no areas equal to 1% or more of the channel area between sites that can be described as "blanketed".	<input type="checkbox"/>	<input type="checkbox"/>	
b)	Individual wetted areas of gravel, sand or fine sized sediments that a foot can be easily pushed or wiggled into are all smaller than an area equal to 1% of the total channel area. Mark "NA" if the stream is dry.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c)	Gravels and cobbles are not embedded or buried in a matrix of sand or finer sized particles. The sides of individual gravel and cobble particles can generally be seen touching each other.	<input type="checkbox"/>	<input type="checkbox"/>	
d)	An average of one or more sensitive invertebrate type(s) is present at invertebrate sample sites. Mark "NA" if no invertebrates are found at all or the stream is dry.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>If the answer is "No" to any statement, mark the "No" box for Question 8. Otherwise, mark the "Yes" box.</i>				

<b>Question 9. Does the stream support a diversity of aquatic invertebrates?</b> (Mark "NA" if no invertebrates at all are found or the stream is dry.)		Yes	No	NA
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a)	An average of one sensitive invertebrate (e.g., a caddisfly, stonefly, mayfly or freshwater clam) is present at the sites sampled.	<input type="checkbox"/>	<input type="checkbox"/>	
b)	An average of two different major invertebrate groups (e.g., insects, worms, crustaceans, etc.) is present at the sites sampled.	<input type="checkbox"/>	<input type="checkbox"/>	
c)	An average of three recognizably different insects is present at the sites sampled.	<input type="checkbox"/>	<input type="checkbox"/>	
d)	An average of four recognizably different invertebrates is present at the sites sampled.	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Mark the "Yes" box for Question 9 if two of the statements are "Yes". Otherwise, mark "No".</i>				

<b>Question 10. Has the vegetation retained in the RMA been sufficiently protected from windthrow?</b>		<b>Yes</b>	<b>No</b>	<b>NA</b>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a)	The incidence of post-treatment windthrow in S1-S3 RRZs or S4-S6 RMZs with WTPs does not exceed 5% of the stems, over and above what occurs naturally in the area. Mark NA and answer 10 b) if there is no reserve zone, or management zone with wildlife trees or wildlife tree patches.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b)	The incidence of post-treatment windthrow in S4-S6 RMZs that are not part of a WTP does not exceed 10% of the stems, over and above what occurs naturally in the area. Mark NA if there is a reserve zone or wildlife tree patch adjacent to the stream, and answer 10 a).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c)	Designated wildlife trees are still standing, or if windthrown, still functional as wildlife trees (e.g., aboveground bear dens). Mark NA if there are no designated wildlife trees.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>If the answer is "No" to any statement, mark the "No" box for Question 10. Otherwise, mark the "Yes" box.</i></p>				

**Calculating % Windthrow:**

1. % Old Windthrow = 
$$\frac{(\# \text{ Old Windthrown Trees})}{(\# \text{ Standing Trees} + \# \text{ Old Windthrown} + \# \text{ New Windthrown})} \times 100$$
2. % New Windthrow = 
$$\frac{(\# \text{ New Windthrow})}{(\# \text{ Standing Trees} + \# \text{ New Windthrow})} \times 100$$

To calculate % new windthrow over and above the natural pre-treatment windthrow, subtract (1) from (2).

<b>Question 11. Has the amount of bare erodible ground or soil disturbance in the riparian area been minimized?</b>		<b>Yes</b>	<b>No</b>
		<input type="checkbox"/>	<input type="checkbox"/>
a)	Total bare erodible ground in the first 10 m of the riparian zone outside of active road areas is less than 1%.	<input type="checkbox"/>	<input type="checkbox"/>
b)	Total bare erodible ground present in the first 10 m of the riparian zone, plus all other bare erodible ground hydrologically linked to the first 10 m of riparian zone is less than 5%.	<input type="checkbox"/>	<input type="checkbox"/>
c)	Total area disturbed by animals or machinery in the first 10 m of the riparian zone is less than 10%.	<input type="checkbox"/>	<input type="checkbox"/>
d)	Total area disturbed by animals or machinery in the first 10 m of the riparian zone, plus all other disturbed areas hydrologically linked to the first 10 m of riparian zone is less than 15%.	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>If the answer is "Yes" for all statements, mark the "Yes" box. Otherwise, mark the "No" box.</i></p>			

TIP: Sediment deposited on the ground from upslope sources is considered bare ground for Question 11, but not if the sediment is deposited due to flooding (i.e., overbank deposits).

<b>Question 12. Has sufficient vegetation been retained to maintain an adequate root network or LWD supply?</b>		<b>Yes</b>	<b>No</b>	<b>NA</b>
a)	On all streams, nonmerchantable conifer trees, understory deciduous trees, shrubs, and herbaceous vegetation are present to the fullest extent possible within 5 m of the channel.	<input type="checkbox"/>	<input type="checkbox"/>	
b)	On S1 to S3 size streams, the first 10 m of the riparian reserve zone is intact (regardless of windthrow), thereby providing for 80% or more of the LWD normally supplied to streams with no additional inputs from upstream or the adjacent hillslopes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c)	On S4 streams, where the windthrow hazard was not assessed, or where windthrow hazard was assessed as not high, all windfirm trees with roots embedded in the bank, and 50% of all other trees (excluding dominant conifers) within 10 m of the stream bank are present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d)	On S4 streams, where the windthrow hazard was assessed as high, all conifers < 30 cm DBH are present within 10 m of the stream bank.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e)	On valley bottom S5 streams with alluvial banks and a floodplain, 50% of dominant and codominant windfirm stems within 30 m of the stream bank are present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f)	On non-valley, LWD dependent S5 streams, all leaners within 10 m of the channel and all conifer stems < 30 cm DBH within 5 m of the stream bank are present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g)	On LWD dependent S6 streams, or S6 that flow directly into fish-bearing waters, at least 10 trees < 30 cm DBH per 100 m of streambank are present within 5 m of the stream bank.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Mark the "No" box for Question 12 if there are any "No" answers. Otherwise, mark the "Yes" box.</i></p>				

TIP: All streams require an answer to indicator statement 12 (a). At most, only one other indicator statement will be applicable.

TIP: Stream crossing right-of-ways should not be considered a factor for Question 12 unless the right-of-ways represent more than 25% of the riparian habitat.

<b>Question 13. Has sufficient vegetation been retained to provide shade and reduce bank microclimate change?</b>		<b>Yes</b>	<b>No</b>
a)	With the exception of active roads at stream crossings, bare erodible ground directly exposed to rain is less than 1% of the riparian habitat in plan view.	<input type="checkbox"/>	<input type="checkbox"/>
b)	Shade (the average amount of sky not visible due to vegetation) averages more than 60%, as estimated visually for any two of the east, south and west aspects at 60° above the horizontal.	<input type="checkbox"/>	<input type="checkbox"/>
c)	Moisture loving macrophytes, mosses, ferns or other bryophytes are present and in vigorous condition, with no indication of stress due to sunburn, drought or desiccation.	<input type="checkbox"/>	<input type="checkbox"/>
d)	Soil in the riparian habitat is moist and cool to the touch.	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Mark the "Yes" box for Question 13 if 3 or more answers are "Yes". Otherwise, mark the "No" box.</i></p>			

Sample No. \_\_\_\_\_

<b>Question 14. Have the number of disturbance-increaser species, noxious weeds, and/or invasive plant species present been limited to a satisfactory level?</b>		<b>Yes</b>	<b>No</b>
a)	Disturbance-increaser plants (domestic grasses, dandelions, pineapple weed, buttercups, etc.) occupy less than 25% of total area in the first 10 m of the riparian zone.	<input type="checkbox"/>	<input type="checkbox"/>
b)	Noxious weeds and/or other invasive plant species occupy less than 5% of total area in the first 10 m of the riparian area.	<input type="checkbox"/>	<input type="checkbox"/>
<i>Mark the "Yes" box for Question 14 if all statements are "Yes". Otherwise, mark "No".</i>			

TIP: To estimate coverage by disturbance-increaser plants or weeds and other invasive plants at a sample site, try estimating the percentage of a 10 m long line transect that is occupied by these plants. Start the line transects at the edge of the stream and go 10 m at right angles to the main axis of the stream reach.

<b>Question 15. Is the riparian vegetation and forest structure within the first 10 m from the edge of the stream generally characteristic of what the healthy unmanaged riparian plant community would normally be along the reach?</b>		<b>Yes</b>	<b>No</b>
a)	All the major vegetation layers and structural components of the expected healthy unmanaged riparian plant community (e.g., snags, CWD, gaps, tall trees, understory, tall shrubs, low shrubs, herbaceous plants, mosses and lichens) are adequately represented. Adequate representation is 1) the presence of all expected layers and components over 75% of the reach, 2) 75% of the expected layers or components over all of the reach, or 3), any combination of 1) and 2) that collectively averages 75% or more.	<input type="checkbox"/>	<input type="checkbox"/>
b)	The major vegetation layers and structural components of a healthy unmanaged riparian plant community should exhibit good vigor, normal growth form, and satisfactory recruitment. Vigor or growth form is poor if plants are discolored, defoliated, brittle, burned, broken, heavily browsed, "mushroomed", wind thrown, harvested or dead. Mark "No" if collectively less than 75% of all the plants and structural components expected show good vigor, form, and recruitment.	<input type="checkbox"/>	<input type="checkbox"/>
c)	Heavy browse is absent on a preferred browse species in the shrub layer. Heavy browse on a plant is browse down to second year wood over most (>50% of the branches) of the plant.	<input type="checkbox"/>	<input type="checkbox"/>
d)	Heavy grazing occupies <10% of the available grazing area. Heavy grazing is defined as less than the recommended target stubble height for the dominant forage species present.	<input type="checkbox"/>	<input type="checkbox"/>
<i>Mark the "Yes" box for Question 15 if 3 or more answers are "Yes". Otherwise, mark the "No" box.</i>			

TIP: All four statements can always be answered "Yes" or "No". There are no NA statements.

TIP: If more than 25% of the total reach length is more or less bare of vegetation, as could be the case at road crossings, then 15(a) and 15(b) should probably be marked "No". If more than 25% of all the vegetation along both sides of the total reach length is removed, as would be the case for a complete clearcut along the reach, then 15(a) and 15(b) would again be marked "No".

Please refer to the Riparian Protocol for a description of "heavy browse".

Summary			
QUESTION	Yes	No	NA
Question 1. Is the channel bed undisturbed?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 2. Are the channel banks intact?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 3. Are channel LWD processes intact?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 4. Is the channel morphology intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question 5. Are all aspects of the aquatic habitat sufficiently connected to allow for normal, unimpeded movements of fish, organic debris, and sediments?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 6. Does the stream support a good diversity of fish cover attributes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question 7. Does the amount of moss present on the substrates indicate a stable and productive system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question 8. Has the introduction of fine sediments been minimized?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question 9. Does the stream support a diversity of aquatic invertebrates?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question 10. Has the vegetation retained in the RMA been sufficiently protected from windthrow?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 11. Has the amount of bare erodible ground or soil disturbance in the riparian area been minimized?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 12. Has sufficient vegetation been retained to maintain an adequate root network or LWD supply?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 13. Has sufficient vegetation been retained to provide shade and reduce bank microclimate change?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 14. Have the number of disturbance-increaser plants, noxious weeds and/or invasive plant species present been limited to a satisfactory level?	<input type="checkbox"/>	<input type="checkbox"/>	
Question 15. Is the riparian vegetation within the first 10m from the edge of the stream generally characteristic of what the healthy unmanaged riparian plant community would normally be along the reach?	<input type="checkbox"/>	<input type="checkbox"/>	
# of "Yes" answers: _____	+	# of "No" answers: _____	+
		# of "NA" answers: _____	=
			Total # of answers: _____
Conclusion on Functioning Condition (check one):	<input type="checkbox"/>	Properly Functioning (0-2 "No's")	<input type="checkbox"/>
	<input type="checkbox"/>	Properly Functioning but at High Risk (5-6 "No's")	<input type="checkbox"/>
			Properly Functioning but at Risk (3-4 "No's")
			Not Properly Functioning (>6 "No's")

List the questions that had a "No" answer below, and check what you believe was the **main reason(s)** for the problem. A "No" answer due to natural causes would include any natural events such as insects, fires, floods, slides, diseases etc. that were clearly unrelated to man's activities in the stream or adjacent riparian area. Check Logging, Livestock, Roads or Other Manmade as a cause if these factors directly affected the stream or riparian area assessed in this evaluation. Check Upstream Factors if the No answer was the result of some event or condition that occurred upstream, regardless if it was manmade or natural.

"No" answer questions	Cause of "No" Answers					
	Logging	Livestock	Roads	Other Manmade	Natural Events	Upstream Factors
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Checklist of Specific Impacts for All "NO" Answers.** Use this table to elaborate on the causes of the main impacts identified on Page 16. Please record the Question numbers that had "No" answers in the space provided beside the specific impacts.

LOGGING RELATED IMPACTS	Select Impacts that Apply	
	Within Stream Reach	Above Stream Reach
Falling and yarding (slash/cut logs in channel)		
Machine disturbance during harvesting		
Machine disturbance during site preparation		
Windthrow		
Low retention		
Old logging		
Slides/sloughs		
Torrenting		
Water courses diverted		
<b>ROADS, CROSSINGS</b>		
Running surface eroding into stream		
Ditches eroding into stream		
Fill or cut slopes eroding into stream		
Road prism failing/collapsing		
Cross ditching inadequate		
Ditch blocks inadequate		
Cross drains inadequate		
Sediment traps inadequate		
Berms/ruts trap water on road		
Crossing leaks fines into stream		
Water courses diverted		
Crossing opening too small		
Crossing misaligned		
Crossing not open-bottomed		
Culvert evert too high		
Culvert damaged		
Culvert plugged		
<b>ANIMAL DISTURBANCE</b>		
Excessive grazing/browsing (livestock)		
Excessive grazing/browsing (other ungulates)		
Excessive browsing (beavers)		
Trampling (livestock)		
Trampling (other animals)		
Stream dammed (beavers)		
Excessive manure		
<b>NATURAL IMPACTS</b>		
High natural background sediment levels		
Organic stream bed		
Fire		
Beetle kills		
Other diseases, epidemics		
Wind		
Slides/sloughs		
Torrents		
Floods		
Unknown		
<b>OTHER IMPACTS (list)</b>		

Final Comments		
Does the conclusion on functioning condition generally agree with your personal opinion on the functioning condition of this stream reach? If not, please describe why not.	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
_____ _____ _____		
All No answers are weighted equally. Were any specific problems identified that affected the assessment more than others?	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
_____ _____ _____		
Do you have any recommendations for improving the Riparian Effectiveness Routine Evaluation Checklist or Protocol?	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
_____ _____ _____		
Have you marked the stream reach assessed on a map in a way that will be legible when photocopied?	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
_____ _____ _____		
Were any invasive plants observed? Remember to complete an Invasive Plant field card if the answer is "Yes".	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
_____ _____ _____		
Additional Riparian Information Requested		
Does the retention information on Page 1 accurately describe the conditions present along the stream reach? (If you feel the answer is "No", please describe the retention further by completing statements (A) to (H) below. Or attach a sketch showing a typical cross section of the two riparian areas, showing the widths and retention levels of the riparian area from the edges of the stream to the edge of a road or clearcut (maximum distance 500 m).)	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
(A) Average distance from stream edge to merchantable trees (m, max. 100)	<b>Left Side</b> _____	<b>Right Side</b> _____
(B) Average distance from stream edge to first signs of most recent harvesting (partial or complete, m, max. 100)	_____	_____
(C) Average distance from stream edge to start of most recent complete harvesting (i.e. a road or clearcut, m, max 100. Note that the riparian area between "B" and "C" is the partly harvested riparian area referred to in "E" to "H")	_____	_____
(D) Approximate age (yrs) of most recent harvesting in first 100m. Mark NA if there has not been any harvesting	_____	_____
(E) % of riparian area that was partly harvested that were merchantable coniferous trees (% merchantable X % coniferous). Mark NA if there is no partly harvested area	_____	_____
(F) % of riparian area that was partly harvested that were merchantable deciduous trees (% merchantable X % deciduous). Mark NA if there is no partly harvested area	_____	_____
(G) % of merchantable coniferous trees retained in the partly harvested area. Mark NA if there is no partly harvested area	_____	_____
(H) % of merchantable deciduous trees retained in the partly harvested area. Mark NA if there is no partly harvested area	_____	_____