WORKSHEET 1: ADVERSE IMPACT FACTORS FOR RIVERINE SYSTEMS WORKSHEET

Stream Type Impacted	Intermittent 0.1			Perennial Stream > 15' in width 0.4			Perennial Stream ≤ 15' in width 0.8		
Priority Area	Tertiary 0.5			Secondary 0.8			Primary 1.5		
Existing Condition	Fully Impaired 0.25			Somewhat Impaired 0.5			Fully Functional 1.0		
Duration	Temporary 0.05			Recurrent 0.1			Permanent 0.2		
Dominant Impact	Shade/ Clear 0.05	Utility X-ing 0.4	Bank Armor 0.7	Deten-tion 1.5	Stream Crossing (≤ 100') 1.7	Impound 2.7	Morpho-logic Change 2.7	Pipe >100' 3.0	Fill 3.0
Scaling Factor (Based on # linear feet impacted)	< 100' impact 0	100-200' impact 0.05	201-500' impact 0.1	501-1000' impact 0.2	> 1000' impact 0.4 for each 1000' feet of impact (round impacts to the nearest 1000') (example: 2,200' of impact – scaling factor = 0.8; 2,800' of impact – scaling factor – 1.2)				

Reaches to Be Impacted	Reach 1	Reach 2	Reach 3	Reach 4
	Complete the Following for Each Reach to Be Impacted			
Simon Channel Evolution Stage				
Rosgen Stream Type/D50				
Criteria for Selecting Existing Condition for Each Reach				
Bankfull Width and Depth	Width: Depth:	Width: Depth:	Width: Depth:	Width: Depth:
Bankfull Indicators (attach photograph showing bankfull for each reach)				
Factors	**Reach 1**	**Reach 2**	**Reach 3**	**Reach 4**
Stream Type Impacted				
Priority Area				
Existing Condition				
Duration				
Dominant Impact				
Scaling Factor				
Sum of Factors M =				
Feet Stream in Reach Impacted LF =				
M X LF =				

Total Mitigation Credits Required =   (M X LF) = _____

WORKSHEET 2: STREAM CHANNEL RESTORATION, STREAM RELOCATION, AND STREAMBANK RESTORATION WORKSHEET

Net Benefit	All proposals must include at least a 25' riparian buffer on both banks Buffers ≥50' +2'/%slope also may generate riparian credit (use ~~see~~ buffer worksheet)				
	Streambank Stabilization	Structure Removal	Stream Channel Restoration and Stream Relocation		
	2.0	4.0 to 8.0	Priority 4 1.0	Priority 3 4.0	Priority 1 or 2 8.0
Monitoring/ Contingency	Minimal (Required) 0	Moderate 0.3		Substantial 0.4	Excellent 1.0
Priority Area	Tertiary 0.05		Secondary 0.2		Primary 1.0
Control	RC on restored channel and 25' buffer (Required) 0.1		Required RC + CE or GPP 0.3		Required RC + CE + GPP 0.5
Mitigation Timing	Schedule 3 0		Schedule 2 (Use for all banks) 0.1		Schedule 1 0.5

Factors	Reach 1	Reach 2	Reach 3	Reach 4
	Submit Representative Photographs a Completed Table 2 and Conceptual Restoration Design for Each Restored or Relocated Reach; Submit Photographs of Each Bank Where Streambank Stabilization will be Conducted			
Net Benefit				
Monitoring/Contingency (at least minimal M&C required)				
Priority Area				
Control (at least a RC required)				
Mitigation Timing				
Sum of Factors M =				
Feet Stream in Reach (do not count each bank separately) LF =				
M X LF =				

Total Channel Restoration/Relocation Credits Generated = (M X LF) = _____

WORKSHEET 3: RIPARIAN RESTORATION AND PRESERVATION WORKSHEET

Net Benefit - select value for each stream side	Riparian Restoration/Habitat Improvement/Preservation Factors – MBW = Minimum Buffer Width = 50'+2'/% slope Select Values from Table 1			
System Credit Condition 1	Condition 1: MWB restored or protected on both streambanks To Calculate Value: Average of the Net Benefit values for Stream Side A and Stream Side B			
System Credit Condition 2	RC Placed on Channel 0.05		RC and CE Placed on Channel 0.1	
M&C - select value for each stream side	Mimimal (Required) 0	Moderate 0.2	Substantial 0.25	Excellent 0.3
Priority Area	Tertiary 0.05	Secondary 0.2		Primary 0.7
Control	RC on restored channel and 25' buffer (Required) 0.1	Required RC + CE or GPP 0.3		Required RC + CE + GPP 0.5
Mitigation Timing - select value for each stream side	Schedule 3 0	Schedule 2 (Use for all banks) 0.05		Schedule 1 0.15

Riparian Reaches		**Reach 1**	**Reach 2**	**Reach 3**	**Reach 4**
		Complete the Following for Each Riparian Reach			
Simon Channel Evolution Stage					
Rosgen Stream Type/D50					
Criteria for Selecting Existing Condition for Each Reach					
Bankfull Width and Depth		Width: Depth:	Width: Depth:	Width: Depth:	Width: Depth:
Bankfull Indicators (attach photograph showing bankfull for each reach)					
Factors		**Reach 1**	**Reach 2**	**Reach 3**	**Reach 4**
Net Benefit	Stream Side A				
	Stream Side B				
System Credit: Condition 1 Met					
System Credit: Condition 2 met (applicable only if Condition 1 met)					
M&C (at least minimal M&C required)	Stream Side A				
	Stream Side B				
Priority Area					
*Control (at least a RC required)					
*Mitigation Timing (none for riparian preservation)	Stream Side A				
	Stream Side B				
Sum of Factors M =					
Linear Feet of Stream Buffered (do not count each bank separately) LF =					
M X LF =					

Total Riparian Restoration Credits Generated =   (M X LF) = _____