



Project Name:

Date:

Adverse Impact Factors for Riverine Systems Worksheet										
Factor	Impact 1	Impact 2	Impact 3	Impact 4	Impact 5	Impact 6	Impact 7	Impact 8	Impact 9	Impact 10
Stream Type Impacted										
Stream Status										
Existing Condition Value <i>Formula total</i>	0	0	0	0	0	0	0	0	0	0
Duration										
Activity										
Cumulative impact	0	0	0	0	0	0	0	0	0	0
Sum of Factors = M	0	0	0	0	0	0	0	0	0	0
Linear Feet of Stream Impacted = LF										
M x LF	0	0	0	0	0	0	0	0	0	0

Total Mitigation Credits Required =

Adverse Impact Factors Table											
Stream Type	Ephemeral/Intermittent w/o Pools 0.4			Intermittent w/ Pools 0.6			Perennial 0.8				
Stream Status	Tertiary 0.1			Secondary 0.4			Primary 0.8				
Existing Condition	Functionally Impaired Stream Type x 0.1			Moderately Functional Stream Type x 0.8			Highly Functional Stream Type x 5.0				
Duration	Temporary (<1 yr.) 0.05			Short Term (1-2 yr.) 0.1			Permanent (>2 yr.) 0.3				
Impact Activity	Below Grade Culvert 0.3	Armor 0.5	Diversion/ Weir 0.75	Morphologic 1.5	Impound 2	Pipe 2.2	Fill 2.5				
Cumulative Impact	0.0003 x total linear feet of stream impacted per reach										

Project Name:

Date: 0-Jan-00

In-Stream Work/Channel Restoration or Enhancement and Relocation Worksheet										
Factors	Benefit 1	Benefit 2	Benefit 3	Benefit 4	Benefit 5	Benefit 6	Benefit 7	Benefit 8	Benefit 9	Benefit 10
Stream Type										
Priority Area										
Existing Condition										
Net Benefit										
Control/Site Protection										
Mitigation construction										
Timing										
Sum Factors (M)	0	0	0	0	0	0	0	0	0	0
Stream length in Reach (LF)										
Credits (C) = M x LF	0	0	0	0	0	0	0	0	0	0
Site Factor (SF) pg 19										
Additional Credits (A) pg 19										
Total Credits Generated (C x SF) + A =	0	0	0	0	0	0	0	0	0	0

Total Channel Restoration/Relocation Credits Generated =

In-Stream Work/ Channel Restoration or Enhancement and Relocation Table						
Stream Type	Ephemeral/Intermittent w/o Pools 0.2	Intermittent w/ Pools 0.4	Perennial Stream Avg. Width at OHWM			
			<15'	15'-30'	30'-50'	>50'
Priority Area	Tertiary 0.05	Secondary 0.2	Primary 0.4			
Existing Condition	Not Applicable 0	Functionally Impaired 0.4	Moderately Functional 0.05			
Net Benefit	Minimal 1.0	Moderate 2.0	Substantial 3.5			
Control/Site Protection	Corps approved site protection without third party grantee 0.1		Corps approved site protection recorded with third party grantee, or transfer of title to a conservancy 0.4			
Mitigation Construction Timing	Schedule 1 0.3	Schedule 2 0.1	Schedule 3 0			

Additional Credits Table

Net Benefit	Ephemeral/ Intermittent w/o pools 0.2	Intermittent w/ Pools 0.4	Stream Type			
			Perennial Stream Average Width			
			<15' 0.4	15'-30' 0.6	30'-50' 0.8	>50' 1
Minimal 1.0	1000	2000	2000	3000	4000	5000
Moderate 2.0	2000	4000	4000	6000	8000	10000
Substantial 3.5	3500	7000	7000	10500	14000	17500

Project Name:

Date: 0-Jan-00

Riparian Buffer Creation, Enhancement, Restoration and Preservation Worksheet										
Factors	Benefit 1	Benefit 2	Benefit 3	Benefit 4	Benefit 5	Benefit 6	Benefit 7	Benefit 8	Benefit 9	Benefit 10
Stream Type										
Priority Status										
Net Benefit (stream side A)										
Net Benefit (stream side B)										
Supplemental Buffer Credit Control / Site Protection	0	0	0	0	0	0	0	0	0	0
Mit. Construction Timing (side A)										
Mit. Construction Timing (side B)										
Temporal Lag (years)										
Sum Factors (M) =	0	0	0	0	0	0	0	0	0	0
Linear Feet of Stream buffer (LF)										
Credits (C) = M x LF	0	0	0	0	0	0	0	0	0	0
Site Factor (SF) pg.19	1									
Total Credits Generated C x (SF)	0	0	0	0	0	0	0	0	0	0

Total Riparian Restoration Credits generated =

Stream Type	Ephemeral/ Intermittent w/o Pools 0.05	Intermittent w/ Permanent Pools 0.2	Perennial 0.4
Priority Status	Tertiary 0.05	Secondary 0.2	Primary 0.4
Net Benefit (for each side of stream)	Riparian Creation, Enhancement, Restoration, and Preservation Factors (select values from Table 1) (MBW = Minimum Buffer Width = 50' + 2' / 1 % slope)		
Supplemental Buffer Credit	Condition: MBW restored or protected on both streambanks To calculate: (Net Benefit Stream Side A + Net Benefit Stream Side B) / 2		
Control / Site Protection	Corps approved site protection without third party grantee 0.05	Corps approved site protection recorded with third party grantee or transfer of title to a conservancy 0.2	
Mitigation Construction Timing (each side of stream)	Schedule 1 0.15	Schedule 2 0.05	Schedule 3 0
Temporal Lag (Years)	Over 20 -0.3	10 to 20 -0.2	5 to 10 -0.1
			0 to 5 0

Table 1

Buffer width on one side of the stream	Percent Buffer that needs planting		
	Creation	Enhancement	Preservation
300'	0.56	0.28	0.14
275'	0.54	0.27	0.14
250'	0.52	0.26	0.13
225'	0.50	0.25	0.13
200'	0.48	0.24	0.12
175'	0.44	0.22	0.11
150'	0.40	0.20	0.10
125'	0.36	0.18	0.09
100'	0.32	0.16	0.08
75'	0.24	0.12	0.06
50' (MBW)	0.16	0.08	0.04

Project Name: 0

Date: 0-Jan-00

Stream Mitigation Summary Worksheet

I. Required Mitigation

A. Total Debits = (calculated from worksheets data)

Debits

0

II. Non-Banking Credit Summary

B. Riparian Buffer Enhancement

C. Stream Restoration

D. Total Proposed Non-Bank Mitigation = B + C

Credits Linear Feet

Credits	Linear Feet
0	0

III. Banking Credit Summary

E. Riparian Buffer Enhancement

F. Stream Restoration

G. Total Proposed Bank Mitigation = E + F

Credits Linear Feet

Credits	Linear Feet
0	0

IV. In-Lieu Credit Summary

H. Riparian Buffer Enhancement

I. Stream Restoration

J. Total Proposed In-Lieu Mitigation = H + I

Credits Linear Feet

Credits	Linear Feet
0	0

V. Grand Totals

K. Total Riparian Enhancement Mitigation = (Calculated from worksheets data)

L. Total Stream Restoration Mitigation = (Calculated from worksheets data)

M. Total Proposed Mitigation = K + L

Credits Linear Feet

Credits	Linear Feet
0	0
0	0
0	0

Proposed Mitigation Credits (M) = Total Debits (A)

Yes or No

Yes
