

**Generic  
Stream Crossing Quality Index Survey - Page 1**

Sub-Basin name: \_\_\_\_\_

Surveyor: \_\_\_\_\_

Date of Survey: \_\_\_\_\_

						Road Running Surface						Ditches						Assessors				
						Left Road Surface		Right Road Surface		RF Ditch		RB Ditch		LF Ditch		LB Ditch						
Sub-Basin	Crossing ID	UTM Easting	UTM Northing	Structure type	Size of Culvert	Erod- ibility of Sub- strate	Road use Level	Erosion level	Delivery Potential	Erosion level	Delivery Potential	Sub- strate	Erosion level	Delivery Potential	Erosion level	Delivery Potential	Erosion level	Delivery Potential	Erosion level	Delivery Potential	score in field	

**Stream Crossing Quality Index Survey - Page 2**

**Generic**

Date of Survey: \_\_\_\_\_

Sub-Basin name: \_\_\_\_\_

Surveyor: \_\_\_\_\_

Other Crossing Information										
Crossing ID	Stream width Class	Stream gradient Class	% Structure plugged	Fish Passage Concerns	Structure integrity	Culvert drop outfall (cm)	Sub-strate in Culvert (y/n)	Chan-nel constriction (y/n)	Photos	Comments

**Scoring System**

**Stream Crossing Quality Index Survey**

**SCORING SYSTEM**

Erodibility of Substrate

Silt = 1.0  
 Fine Sand = 0.95  
 Medium Sand = 0.90  
 Coarse Sand = 0.85  
 Clay = 0.85  
 Stones Cobbles and Gravels = 0.8

Surface Erosion Level

Massive Erosion = 1.0  
 Extensive erosion = 0.9  
 Moderate Erosion = 0.8  
 Minor Erosion = 0.7  
 Negligeable Erosion = 0.6  
 No erosion evident = 0.0

Stream width classes

Greater than 20m = 1  
 5 to 20m = 2  
 1.5 to 5 m = 3  
 0.5 to 1.5 m = 4  
 Less than 0.5 m = 5

Functional condition of structure

1= structure working as designed  
 2= ends of the culvert are partly crushed or plugged  
 3= ends of culvert are mostly crushed  
 4= bridge structure showing signs of failing components  
 5= No structure

Road Use Level

Active mainline = 1.0  
 Active branch line= 0.98  
 Moderate activity = 0.95  
 Low activity = 0.93  
 De-activated semi-permanent = 0.92  
 De-activated permanent = 0.90  
 Abandoned - no access = 0.80

Sediment Delivery Potential

Delivery is evident, direct and un-interrupted = 1.0  
 Sediment is weakly filtered (e.g. logs,grasses = 0.9  
 Delivery is indirect & filtered through trees and grasses = 0.8  
 No sediment delivery possible = 0.0

Stream gradient class

>20% = 6  
 16 to 20% = 5  
 11 to 15% = 4  
 6 to 10% = 3  
 1 to 5% = 2  
 less than 1% = 1

% of structure plugged (inlet)

0-25% = 1  
 25-50% =2  
 50-75% =3  
 75-100% =4

Interpretation of Score Values relative to sediment delivery to stream			
0	No Problems	0.6 to 0.7	Moderate problems
0.1	Very minor problems	0.8	Moderate to high problems
0.2 to 0.4	Slight problems	0.9	Significant sediment delivery
0.4 to 0.6	Low to moderate problems	1	Major and significant problem

Ditch notation ID

RF Ditch = right,front ditch looking downstream  
 RB Ditch = right,back ditch looking downstream  
 LF Ditch = left,front ditch looking downstream  
 LB Ditch = left,back ditch looking downstream

Fish passage classes (does not assess presence of fish)

1 = provides clear fish passage with no gradient, velocity or outfall drop barriers  
 2 = It is unknown if crossing is barrier  
 3= clearly does not provide fish passage because of outfall drop or gradient.

Crossing structure types

Clear span bridge = 1  
 Bridge that encroaches on full bank width = 2  
 Arch Culvert = 3  
 Wooden culvert = 4  
 Corregated metal pipe = 5  
 Designed ford = 6  
 Non-designed ford = 7  
 No structure = 8