Date Printed: 2016/01/07
User Id: IDIR\TYSMILLE
Database: PROD
Report Id: CBR001B
File:

BC Ministry of Forests and Range

Log Stringer Bridge Inspection Report

Structure #:	CK-2261	**Site #:**	CK-2261	**Road Name:**	STAVE RIVER	**Inspection Date:**	2015/09/23
KM:	8.50	**User km:**	8.50	**Crossing Name:**	Winslow Creek	**Next Inspection Date:**	2016/09/23
Project File ID #:	8013	**Br.**	01	**Forest District:**	Chilliwack Natural Resource District		

Deck Type:	Timber - Untreated - Panels	**Running Surface:**	Timber Planks
Superstructure	Steel I-beam	**Abutments (Left/Right):** *(looking downstream)*	Crib, Log or Untreated Timber

Total Length *(metres)*:	36.3	**# Spans:**	2	**Span Length(s)** *(metres)*:	0, 0
UTM Zone:	10	**UTM Easting:**	555324	**UTM Northing:**	5480782
Inspector Name:	T. Miller	**Year Superstructure Installed:**		1986	

Access: Updated by M.Kirk, Onsite Engineering Ltd, Feb 2011

ABUTMENTS

Bearings	Poor	top logs crushing
Bracing	Not Applicable	
Ballast Wall	Fair	logs left abutment, concrete right abutment
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	fair to poor
Fill	Fair	
Hardware	Poor	loose lashing
Log/Timber Cribs	Poor	4x left, 5x right - top logs on both ends are rotting
Piles or Posts	Not Applicable	
Riprap	Poor	very little riprap in front of cribs
Tie-backs	Fair	fair to poor
Wing Wall	Poor	only left abutment and rotting and slumping

APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (*approaching structure*)	0	
Delineator Missing Right (*approaching structure*)	0	
Fender Condition	Fair	missing downstream right approach - pushed down bank
Posted Load Rating	not	not posted
Road Surface	Good	

Corporate Bridge Register (CBR)

Disclaimer:

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2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.

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DECK

Span 1

Curb Rail/Blocks/Posts	Poor	risers and guardrail in poor condition
Deck to Girder Bolts	Fair	
Hardware	Poor	loose rail bolts
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Poor	due to condition of guardrail system
Running Planks	Fair	
Sub Deck	Fair	
Ties	Fair	showing signs of rot

Span 2

Curb Rail/Blocks/Posts	Fair	some risers and guardrail in poor shape
Deck to Girder Bolts	Fair	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Fair	
Running Planks	Fair	fair to poor as wheel path deck planks are wearing
Sub Deck	Fair	
Ties	Fair	showing signs of rot

PIERS

Pier 1

Bearings	Poor	rotting and crushing logs - approx 80mm difference in deck elevation from upstream to downstream - downstream lower
Bracing or Sheathing	Not Applicable	
Caps	Poor	rotting and crushing
Cribs	Poor	5x and rotting
Dolphins	Not Applicable	
Hardware	Poor	loose lashing
Overall	Poor	top logs in poor condition
Piles or Posts	Fair	short posts on right span (span 2)

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Riprap	Fair	
Wall	Not Applicable	

SUPERSTRUCTURE

Span 1

Bracing	Fair	
Diaphrams	Fair	
Girders	Fair	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

Span 2

Bracing	Fair	
Diaphrams	Fair	
Girders	Fair	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL

Estimated Present Water Level Depth:	1.0	**Estimated Present Water Level Width:**	12.0
Estimated High Water Level Clearance:	2.5		

HAZARDS

High Water:	No	**Scour:**	Yes	**Ice:**	No	**Debris:**	Yes	**Aggradation:**	Yes

Comment:

REPAIRS

#	Status	Priority	Estimate	Description
1	Required	High	$500.00	post load rating sign
2	Required	Medium	$1,000.00	replace downstream right approach concrete no post barriers

MONITORS

#	Description

GENERAL

Inspector's Comment:

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GENERAL

PEng's Comment:	In general the structure is in relatively poor condition. The top crib logs on both abutments and pier are in poor condition (rotting and crushing). Some ties and deck planks are showing signs of wear (rotting) aswell. The debris accumulations at the inlet are at relatively low levels at the time of the inspection but this needs to be monitored continuously. Plan to replace the entire structure soon. Replace the missing concrete no post barriers on the downstream right approach. Present load rating of 30 tonnes to continue. Post load rating sign.

GENERAL

Replacement Date for full log haul traffic *(year)*:	2015	**Replacement Date for light vehicle traffic** *(year)*:	2017
Current Inspection Load Rating:	30	**Design Load GVW** *(tonnes)*:	
Design Vehicle Config.:			
Professional Inspection Required?	No	**Report Status:**	Reviewed By Tyson Miller on 1/7/2016 9:18:30AM

07/01/2016

Corporate Bridge Register (CBR)

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CK-2261 STAVE RIVER 8.5km 2015 Inspection

Approach from Right Bank when facing downstream

Approach from Left Bank when facing downstream

Deck - wear noted on right span on wheel path

upstream

CK-2261 STAVE RIVER 8.5km 2015 Inspection

downstream

Guard Rail

Guard Rail

Right Bank Abutment when facing downstream

CK-2261 STAVE RIVER 8.5km 2015 Inspection

Left Bank Abutment when facing downstream

pier

Downstream Profile

debris accumulation at pier

top crib log in pier