CK-2264	STAVE RIVER 13km	2014 Inspection

CBR iPad Offline Ver 0.17

CBR Data

Latitude	Longitude
49°30'13.39"	-122°15'51.4"

Road Name	STAVE RIVER
User km	13
Current Load Rating (tonnes)	68
Structure Class	Temporary Bridge
Portable	N
Superstructure	Log Stringers
Deck Type	Gravel
Abutment Left	Crib, Log or Untreated Timber
Abutment Right	Crib, Log or Untreated Timber
Spans	1
Total Length (m)	7.5
Deck Width (m)	5

Updated Data

Latitude	Longitude
49°30'13.63"	-122°15'51.4"

HD Diff. (m)	7.1	Accuracy (m)	5

Stave River	
11.8	
30 tonnes.	
Temporary Bridge	
N	
Log Stringer	
Gravel	
Crib, Log or Untreated Timber	
Crib, Log or Untreated Timber	
1	
7.9	
5.5	

Inspection

Date of Inspection 2014-11-17 1:13:13 PM

Inspector Name Tyson Miller

Inspection Company MFLNRO

Inspection Comments

structure has 2 layers of stringers - cannot properly assess top layer
structure appears in fair condition

Feb 25/2015

P.Eng Comments

This structure has 2 layers of stringers and only the bottom stringers can be properly assessed. The top layer of stringers that were added in 2012 was a temporary repair in order to facilitate works at the time. The structure has had further deterioration of the bottom layer of stringers, the crib logs and the tiebacks. This, combined with no way of properly assessing the top layer of stringers has resulted in a down rated structure. Limit loading to 30 tonnes, please post. Replace entire structure prior to industrial activity.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. W. MILLER
P.Eng Seal #35998

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Approach

Alignment	Good	
Bridge Ahead Signs Missing	○ 0 ○ 1 ● 2	
Brushing Required	N	
Delineator Missing Left	● 0 ○ 1 ○ 2	
Delineator Missing Right	● 0 ○ 1 ○ 2	
Fender Condition	Poor	none
Posted Load Rating		not posted
Road Surface	Good	

Abutment

Log/Timber Cribs	Fair	
Tie Backs	Fair	
Bin Wall	N/A	
Concrete	N/A	
Caps or Sills	N/A	
Piles or Posts	N/A	
Ballast Wall	N/A	
Wing Wall	N/A	
Bracing	Fair	
Hardware	Fair	fair to poor as missing lashing and other is loose
Fill	Fair	
Riprap	Poor	none
Bearings	Fair	

Corrosion Protection	N/A

Deck

Running Surface	N/A
Running Planks	N/A
Sub Deck	N/A
Ties	N/A
Nails	N/A
Deck to Girder Bolts	N/A
Concrete Deck	N/A
Grout Pockets	N/A
Deck Joints	N/A
Steel Deck Plate	N/A
Gravel Surface	Fair
Curb Rail/Blocks/Posts	Fair
Hand Rails/Walkouts	N/A
Hardware	Fair
Overall Deck Condition	Fair
Gravel Depth (mm)	300

Steel/Concrete

Girders

Diaphragms

Bracing

Under Trussing

Hardware

Welded/grouted shear connectors

Log

Log Curbs

Needle Beam

Needle Lashing/ Shimming

Needle Beam to Crib (m)

Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Comment
1	Cw	Y	650	50	sap and small pocket rot
2	Cw	Y	600	30	sap rot
3	Cw	Y	700	40	sap rot
4	Cw	Y	580	30	sap rot
5	Cw	Y	550	30	sap rot
6	Cw	Y	550	40	sap rot
7	Cw	Y	570	100	sap and heart rot detected

Hazards

Estimated Present Water Level Depth (m)	0.2	High Water ☐	Debris ☐
Estimated Present Water Level Width (m)	3.0	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	1.0	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Medium	post bridge ahead signs
2	High	post load rating sign
3	High	remove gravel and properly assess top layer of stringers

Monitor Item	Monitor Description	Monitoring Frequency
1		
2		
3		

Sketch
(Select Signature)

FileName CBR iPad Offline Ver 0.17

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Approach from Right Bank when facing downstream

Approach from Left Bank when facing downstream

right bank upstream erosion

Right Bank Abutment when facing downstream

Left Bank Abutment when facing downstream