

CK-2267

STAVE RIVER 19km

2014 Inspection

CBR iPad Offline Ver 0.17

CBR Data

Latitude Longitude
49°32'37.89" -122°17'42.4"

Road Name STAVE RIVER
User km 19
Current Load Rating (tonnes) 63
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) 13.5

Deck Width (m) 5

Updated Data

Latitude Longitude
49°32'37.01" -122°17'42.37"

HD Diff. (m) 27.4 Accuracy (m) 10

Stave River

17.7

30 tonnes

Temporary Bridge

N

Log Stringer

Gravel

Crib, Log or Untreated Timber

Crib, Log or Untreated Timber

1

12.1

5.0

Inspection

Date of Inspection 2014-11-17 9:59:42 AM

Inspector Name Tyson Miller

Inspection Company MFLNRO

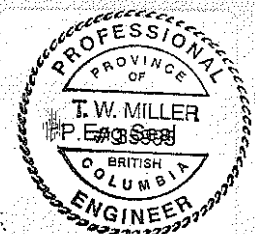
Inspection Comments

12.1m is span
2 layers of stringers and cannot properly assess top layer
down rate until proper assessment can be completed
crib in poor shape

P.Eng Comments

This structure has 2 layers of stringers and only the bottom layer 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. This 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.

T. Miller
Feb 26/2015



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Approach

Alignment Fair

VC left approach

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 Poor

crushing top crib log on left upstream

Tie Backs Poor

rotting and splitting

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 Poor

loose lashing

Hardware Poor

loose lashing

Fill Fair

Riprap Poor

scouring left upstream

Bearings Poor

crushing top crib log on left side

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Corrosion Protection Fair

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 top layer of stringers only wrapped once with wire rope

Overall Deck Condition Fair

Gravel Depth (mm) 300

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Steel/Concrete

Girders

Diaphragms

Bracing

Under Trussing

Hardware

Welded/grouted
shear connectors**Log**

Log Curbs Fair

Needle Beam Poor loose and non functional

Needle Lashing/
Shimming Poor loose and non functional

Needle Beam to Crib (m)

Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Comment
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1	Cw	Y	700	150	heart rot
2	Cw	Y	830	60	sap rot
3	Cw	Y	700	80	sap rot
4	Cw	Y	740	140	heart rot
5	Cw	Y	830	100	pocket rot detected
6	Cw	Y	770	50	sap rot
7	Cw	Y	670	60	sap rot

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Hazards

Estimated Present Water Level Depth (m)	0	High Water	☐	Debris	✕
Estimated Present Water Level Width (m)	0	Aggradation	✕	Scour	✕
Estimated High Water Level Clearance (m)	0	Ice	☐		

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Medium	post bridge ahead signs
2	High	replace prior to industrial activity
3	High	post load rating

Monitor Item

Monitor Description

Monitoring Frequency

1	inlet aggradation	Anually
2		
3		

Sketch
(Select Signature)

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Inlet



Inlet



Approach from Right Bank when facing downstream



Approach from Left Bank when facing downstream

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downstream



Downstream Profile



Left Bank Abutment when facing downstream



left abutment upstream scour

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left abutment upstream top crib log crushing



tie backs - typical



needle beam loose and material wedged under upstream



Right Bank Abutment when facing downstream

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Right Bank Abutment when facing downstream



blocked portion of inlet viewed from under structure



bottom layer of stringers