

CK-2262

STAVE RIVER 10.5km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
49°29'5.3"	-122°15'3.32"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	10.5		
Current Load Rating (tonnes)	30		
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)	11		
Deck Width (m)	4.5		

Updated Data

Latitude	Longitude		
49°29'6.74"	-122°15'4.78"		
HD Diff. (m)	53.1	Accuracy (m)	5
9.4			

Inspection

Date of Inspection 2016-07-28 10:57:12 AM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Bridge has 2 layers of stringers. Bottom layer of stringers only accessible. The bridge is currently rated for 30 tonnes but no load posting sign is in place. Removal of gravel deck required to inspect top layer of stringers. A beaver dam has been build below the bridge. Limited access to abutments due to water depths. Error in App, subtract 1 for the actual stringer numbers. Updated user km to 9.4 based on road km markings.

P.Eng Comments

The structure has 2 layers of stringers and only the bottom layer can be properly assessed. The top layer of stringers were added in 2012 as a temporary measure to facilitate works at the time. The original structure was constructed in 1987 (30 years old) and is in poor condition. The top layer of stringers have not properly assessed since the installation; and as such I recommend the primary road user to remove the gravel deck to expose these stringers and to complete an inspection of them prior to the 2017 inspections being completed (please contact the Ministry on when the inspection of the top layer of stringers is anticipated). In the meantime the present load rating of 30 tonnes to continue. Post load rating sign and plan for a complete replacement soon.



10/03/2017

P.Eng Seal

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Approach

Alignment Fair

Horizontal and vertical curve.

Bridge Ahead Signs
Missing
☐ 0
 ☐ 1
 ☒ 2

Brushing Required Y

Delineator Missing
Left
☒ 0
 ☐ 1
 ☐ 2
Delineator Missing
Right
☒ 0
 ☐ 1
 ☐ 2

Fender Condition Poor

None in place.

Posted Load Rating

No load posting sign.

Road Surface Good

Abutment

Log/Timber Cribs Fair

Fair to poor. Limited access due to water level. 30 mm sap rot. Vegetation growth at ends. No signs of crushing or distress.

Tie Backs Poor

50 mm sap rot. Large end splits. 2 tie backs with rotten ends. No signs of crushing or distress.

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 N/A

Hardware Poor

Deck hardware: loose curb log lashing.

Fill Fair

Riprap Poor

None in place.

Bearings N/A

No rubber bearings on bridge.

Corrosion Protection N/A

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Deck

Running Surface	Fair	
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	Some potholes.
Curb Rail/Blocks/Posts	N/A	
Hand Rails/Walkouts	N/A	
Hardware	Fair	Abutment hardware: some loose lashing.
Overall Deck Condition	Fair	
Gravel Depth (mm)	200	

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Steel/Concrete

Serial/ID Plate No ID Tag.

Girders N/A

Diaphragms N/A

Bracing N/A

Under Trussing N/A

Hardware N/A

Welded/grouted
shear connectors N/A**Log**

Log Curbs Fair

Needle Beam N/A

Needle Lashing/
Shimming N/A

Needle Beam to Crib (m)

Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment
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2	Cw	Y	640	0	Fair	20 sap rot. 2015 insp: 100 rot.
3	Cw	Y	600	0	Fair	20 sap rot. Lots large knots.
4	Cw	Y	650	0	Fair	35 sap rot. 2015 insp: 40 rot depth.
5	Cw	Y	620	80	Poor	Heart rot. Large knots. 2015: 250 heart rot.
6	Cw	Y	520	0	Fair	25 sap rot. Lots knots.
7	Cw	Y	530	0	Fair	20 sap rot. Lots large knots.
8	Cw	Y	630	0	Fair	25 sap rot. Lots knots.

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Hazards

Estimated Present Water Level Depth (m)	0.8	High Water	☐	Debris	☒
Estimated Present Water Level Width (m)	11	Aggradation	☒	Scour	☒
Estimated High Water Level Clearance (m)	0	Ice	☐		

Comments Beaver dam built on gravel bar below bridge. Possible scour at left abutment upstream corner.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Remove gravel deck to facilitate inspection of the top layer of stringers. Install load posting sign.
2	Medium	Remove beaver dam below bridge.
3	Medium	Install bridge ahead signs.

Item	Monitor Description	Frequency
1	Monitor deterioration of stringers and abutments.	Routine Inspection

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Sketch
(Select Signature)



Downstream Elevation



Possible Scour at Left Abutment Upstream Corner.



Upstream Elevation



Right Approach Facing Bridge



Right Approach Facing Away From Bridge



Left Approach Facing Away From Bridge



Deck



Left Approach Facing Bridge



Looking Upstream



Right Bank Abutment



Looking Downstream



Left Bank Abutment



Stringers



Stringer 2 Knots



Stringers 6, 5 & 4 Knots