

CK-2265

STAVE RIVER 13.2km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
49°30'15.9"	-122°15'57.8"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	13.2		
Current Load Rating (tonnes)	30		
Structure Class	Temporary Bridge		
Portable	N		
Superstructure	Log Stringers		
Deck Type	Gravel		
Abutment Left	Sill -Temporary Materials		
Abutment Right	Sill -Temporary Materials		
Spans	1		
Total Length (m)	8.5		
Deck Width (m)	5.2		

Updated Data

Latitude	Longitude		
49°30'16.77"	-122°15'59.61"		
HD Diff. (m)	45.2	Accuracy (m)	10
12			
10 tonnes			

Inspection

Date of Inspection 2016-07-27 12:21:48 PM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Bridge has 2 layers of stringers. Only bottom layer accessible. Stringers have continued to deteriorate since previous inspection. Currently load rated for 30 tonnes, but no posting sign in place. Inspection of top layer of stringers required. Error in App, subtract 1 for actual stringer numbers. Updated user km to 12 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 1988 (29 years old) and is in relatively 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). Limit loading to 10 tonnes at this point. Post load rating sign and plan for a complete replacement soon.



10/03/2017

P.Eng Seal

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Approach

Alignment Good

 Bridge Ahead Signs
Missing ☐ 0 ☐ 1 ☒ 2

Brushing Required Y Vegetation starting to obscure delineators.

 Delineator Missing
Left ☒ 0 ☐ 1 ☐ 2

 Delineator Missing
Right ☒ 0 ☐ 1 ☐ 2

Fender Condition Poor None in place.

Posted Load Rating No posting sign.

Road Surface Good

Abutment

Log/Timber Cribs Fair Typically 20 mm sap rot. Some end rot outside of bearing area. No crushing or distress noted.

Tie Backs Fair Fair to poor condition. 40 mm sap rot with notable end rot. Tie backs typically saturated. No crushing or distress noted.

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: missing log curb lashing.

Fill Fair

Riprap Poor None in place.

Bearings N/A No rubber bearings in structure.

Corrosion Protection N/A

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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	Good	Top of stinger exposed at left abutment in centre of road.
Curb Rail/Blocks/Posts	N/A	
Hand Rails/Walkouts	N/A	
Hardware	Fair	Abutment hardware: loose at left abutment downstream corner.
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

Not applicable.

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

Log Curbs Fair

Debris build up against log curbs.

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	520	0	Fair	30 sap rot. 2015 insp: 40 rot depth.
3	Cw	Y	610	0	Fair	40 sap rot. 2015 insp: 50 rot depth.
4	Cw	Y	650	120	Poor	Heart rot. 20 sap rot. 2015 insp: 50 rot depth.
5	Cw	Y	560	0	Fair	60 sap rot. 2015 insp: 60 rot depth.
6	Cw	Y	640	0	Fair	30 sap rot. 2015 insp: 50 rot depth.
7	Cw	Y	700	0	Poor	25 sap rot. Large knots. Small conk.
8	Cw	Y	610	0	Poor	120 sap rot @ mid span. Bug infestation.

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Hazards

Estimated Present Water Level Depth (m)	0.15	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	1	Aggradation	☒	Scour	☐
Estimated High Water Level Clearance (m)	0.5	Ice	☐		

Comments Build up of gravel bar upstream and under bridge. Opening reduced to 1.1 m at right abutment.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Remove gravel deck to inspect top layer of stringers. Account for deterioration of bottom layer of stringers in load rating.
2	High	Post load posting sign.
3	Medium	Clear debris from log curbs. Install bridge ahead signs.

Item	Monitor Description	Frequency
1	Monitor deterioration of bottom layer of stringers.	Routine Inspection

2

3

Sketch
(Select Signature)



Left Approach Facing Bridge



Deck



Left Approach Facing Away From Bridge



Right Approach Facing Away From Bridge



Right Approach Facing Bridge



Looking Downstream



Looking Upstream



Downstream Elevation



Left Bank Abutment



Upstream Elevation



Right Bank Abutment



Tie Backs



Stringer 6 Small Conks



Stringer 7 Midspan Sap Rot & Bug Infestation



Stringer 6 Knots



Left Abutment Exposed Stinger in Centre of Road



Stringers



Missing Log Curb Lashing Left Abutment Downstream Corner.