

CK-2264

STAVE RIVER 13km

2016 Inspection

CBR iPad Offline Ver 0.23 SNT



CBR Data

Latitude	Longitude		
49°30'13.29"	-122°15'50.8"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	13		
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)	7.5		
Deck Width (m)	5		

Updated Data

Latitude	Longitude		
49°30'12.91"	-122°15'52.03"		
HD Diff. (m)	27.6	Accuracy (m)	10
11.9			

Inspection

Date of Inspection 2016-07-27 7:09:27 PM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Bridge has 2 layers of stringers. Only bottom layer accessible, which consists of 8 stringers. Previous inspection only recorded 7 stringers. Bridge location was verified by gps and looking at previous inspection photos. Bridge 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 11.9 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). In the meantime the present load rating of 30 tonnes to continue. Post load rating sign, ensure 300mm gravel fill over all stringers 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 N

 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 Moss growth typical. 30 mm sap rot. No signs of crushing or distress.

Tie Backs Fair Moss growth typical. 40 mm sap rot. End of left abutment upstream tie back rotten. 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: No log curb 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	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	200 mm deep gravel at left abutment, limited gravel at right abutment, stringer exposed.
Curb Rail/Blocks/Posts	N/A	Log curb.
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

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	460	90	Poor	Heart rot. 15 sap rot. 2015 insp: 50 rot depth.
3	Cw	Y	560	0	Fair	30 sap rot. 2015 insp: 30 rot depth.
4	Cw	Y	590	0	Fair	35 sap rot. 2015 insp: 40 rot depth.
5	Cw	Y	590	0	Fair	25 sap rot. 2015 insp: 30 rot depth.
6	Cw	Y	500	0	Fair	20 sap rot. 2015 insp: 30 rot depth.
7	Cw	Y	550	0	Fair	20 sap rot. 2015 insp: 40 rot depth.
8	Cw	Y	570	0	Poor	35 sap rot. Lots knots. 2015 insp: 120 rot
9	Cw	Y	580	0	Fair	30 sap rot. Not recorded in 2015 insp.

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Hazards

Estimated Present Water Level Depth (m)	0.1	High Water	☐	Debris	☒
Estimated Present Water Level Width (m)	4	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	0.5	Ice	☐		

Comments Lots of blow down upstream, fallen trees in creek.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Remove gravel deck to inspect top layer of stringers.
2	High	Post load rating sign.
3	Medium	Post bridge ahead sign.

Item	Monitor Description	Frequency
1	Monitor deterioration of stringers and cribs.	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 Upstream



Right Abutment Top of Stringer Exposed



Looking Downstream



Downstream Elevation



Right Bank Abutment



Left Bank Abutment



Upstream Elevation

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Stringers