

CK-2266

STAVE RIVER 16.8km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
49°31'50.9"	-122°16'40.7"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	16.8		
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)	8		
Deck Width (m)	5		

Updated Data

Latitude	Longitude		
49°31'53.44"	-122°16'40.38"		
HD Diff. (m)	78.7	Accuracy (m)	30
15.8			

Inspection

Date of Inspection 2016-07-26 2:20:58 PM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Bridge has 2 layers of stringers, only bottom layer are accessible. Dry crossing with 900 mm opening and ~1500 mm sump upstream. Current load rating of 30 tonnes based on unknown condition of top layer of stringers, but no load posting sign in place. Updated user km to 15.8 based on road km markings. Error in App, subtract 1 for actual stringer number.

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 is in relatively poor condition. The top layer of stringers have not been 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). The present load rating of 30 tonnes can continue. 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 N

 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 Two logs at each abutment. Up to 40 mm sap rot.

Tie Backs Fair Three per abutment. Typical end splits and minor end rot.

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 Fair Lashing.

Fill Fair

Riprap Poor None in place.

Bearings N/A No rubber bearings on structure.

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	Stringer exposed at left abutment.
Curb Rail/Blocks/Posts	N/A	No guardrail. Log curbs are in place.
Hand Rails/Walkouts	N/A	
Hardware	Fair	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 Debris accumulating against logs.

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
2	Fd	Y	480	130	Poor	Conks. 220 sap rot. 2015 insp: 240 rot depth.
3	Fd	Y	430	0	Poor	100 sap rot. 2015 insp: 150 rot depth.
4	Fd	Y	700	0	Fair	25 sap rot. 2015 insp: 30 rot depth.
5	Fd	Y	560	0	Fair	50 sap rot. 2015 insp: 50 rot depth.
6	Fd	Y	500	0	Fair	25 sap rot. 2015 insp: 30 rot depth.
7	Fd	Y	520	0	Fair	30 sap rot. 2015 insp: 40 rot depth.
8	Fd	Y	520	0	Fair	10 sap rot. 2015 insp: 30 rot depth.
9	Fd	Y	730	0	Poor	Conks. 5 sap rot. 2015 insp: 60 rot depth.
10	Fd	Y	630	0	Poor	15 sap rot. 2015 insp: 100 rot pocket.
11	Fd	Y	600	0	Poor	70 sap rot. 2015 insp: 100 rot depth.
12	Fd	Y	500	110	Poor	Conks. 75 sap rot. 2015 insp: 280 rot depth.

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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 Dry crossing with 900 mm opening and ~1500 mm deep sump upstream.

Repairs and Monitoring

Repair

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

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

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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



Looking Downstream



Upstream Elevation



Right Bank Abutment



Stringer 1 & 2 Rot



Left Bank Abutment



Stringer 1 Conk



Stringer 8 Conk



Stringers



Stringer 11 Conk



Stringer Protruding Through Deck at Left Abutment