

CK-2267

STAVE RIVER 19km

2016 Inspection

CBR iPad Offline Ver 0.23 SNT



CBR Data

Latitude	Longitude		
49°32'37.89"	-122°17'42.8"		
Crossing Name	Ole Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	19		
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)	13.5		
Deck Width (m)	5		

Updated Data

Latitude	Longitude		
49°32'37.58"	-122°17'42.72"		
HD Diff. (m)	10.0	Accuracy (m)	10
17.8			
10 tonnes			

Inspection

Date of Inspection 2016-07-26 7:23:45 AM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Bridge consists of 2 levels of stringers. Only bottom stringers are accessible for inspection. Current load rating of 30 tonnes based on unknown condition of top stringers, but no load posting sign in place. Top crib log has failed at left abutment upstream corner. Scour between logs at left abutment upstream corner. Significant debris build up against bottom level of stringers, high flow event may result in bridge wash out. Error in App for stringer numbering, subtract 1 for actual stringer number. No access to stringer 2 at right abutment. Total length of top logs 15.2 m. Updated user km to 17.8 base 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 and they have not had a proper inspection since. The left abutment condition continues to deteriorate and the hydraulic capacity of the bridge appears extremely reduced at the time of inspection, putting the bridge at risk to washout. Limit loading to 10 tonnes and monitor while in use, especially during/after heavy precipitation or rain on snow events. Post load rating sign; clean inlet and plan for replacement prior to high flows.



13/03/2017

P.Eng Seal

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Approach

Alignment Fair

Vertical curve.

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 Fair

Potholes in wheel tracks.

Abutment

Log/Timber Cribs Poor

Top log collapsed at upstream end of left abutment. Vegetation growing out of top logs. 50 mm sap rot on lower logs.

Tie Backs Poor

Rotten.

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

Lashing at one location of downstream log snapped.

Fill Fair

Riprap Poor

None.

Bearings N/A

No rubber bearings in structure.

Corrosion Protection N/A

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**Deck**

Running Surface	Good	Potholes in wheel tracks.
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	
Hand Rails/Walkouts	N/A	
Hardware	Poor	Crib lashing is loose.
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 Poor

Hanging loose below bridge.

Needle Lashing/
Shimming Poor

Loose lashing.

Needle Beam to Crib (m) 550

Needle Diameter (mm) 4300

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment
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2	Cw	Y	600	170	Poor	Heart rot & 15 mm sap rot.
3	Cw	Y	870	0	Fair	25 mm sap rot. 2015 insp: 60 mm rot.
4	Cw	Y	710	70	Fair	Heart rot & 10 mm sap rot.
5	Cw	Y	680	180	Poor	Heart rot & 15 mm sap rot.
6	Cw	Y	820	0	Poor	10 mm sap rot. 2015 insp found 100 mm rot.
7	Cw	Y	700	0	Fair	10 mm sap rot. 2015 insp: 50 mm rot.
8	Cw	Y	670	30	Fair	25 mm sap rot.

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Hazards

Estimated Present Water Level Depth (m)	0.3	High Water	☐	Debris	☒
Estimated Present Water Level Width (m)	2.5	Aggradation	☒	Scour	☒
Estimated High Water Level Clearance (m)	0	Ice	☐		

Comments Significant debris build up at upstream right corner, restricting channel flow. 300 mm of scour behind logs at left abutment upstream corner, where infill log is missing.

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	High	Remove gravel deck to facilitate inspection of top level of stringers. Replace bridge if top logs bear on original log cribs. Install load posting sign in interim period.
2	High	Remove debris build up at right abutment upstream corner. High flow event may result in bridge washout.
3	Medium	Reinstate fill and infill log at left abutment upstream corner. Post bridge ahead signs.

Item	Monitor Description	Frequency
1	Monitor condition of left abutment prior to replacement or confirmation that top logs bear on alternate abutment.	Anually
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



Exposed Stringer at Left Abutment



Upstream Elevation



Downstream Elevation



Accumulation of Rocks against Upstream Stringer



Right Bank Abutment



Left Bank Abutment



Tie Back Condition



Left Abutment Collapsed Crib Log with Scour between Logs



Needle Beam Loose



Stringers



Debris Accumulation against Right Abutment