

CK-2271

STAVE RIVER 26.2km

2016 Inspection

CBR iPad Offline Ver 0.23 SNT



CBR Data

Latitude	Longitude		
49°34'21.29"	-122°22'2.97"		
Crossing Name	Stave River		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	26.2		
Current Load Rating (tonnes)	41		
Structure Class	Permanent Bridge		
Portable	N		
Superstructure	Steel I-beam		
Deck Type	Timber - Untreated		
Abutment Left	Steel Pipe and Precast Pad		
Abutment Right	Concrete Cast in Place		
Spans	1		
Total Length (m)	24.5		
Deck Width (m)	4.3		

Updated Data

Latitude	Longitude		
49°34'20.34"	-122°22'2.24"		
HD Diff. (m)	33.1	Accuracy (m)	5
24.6			

Inspection

Date of Inspection 2016-07-26 11:37:27 AM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Fabric covering guardrail holds debris on deck and promotes deterioration of guardrail and running planks. Deck is heavily worn and requires replacement. Majority of risers are rotten with damage and pockets of rot noted in guardrail. 2 adjacent ties at right abutment have rot in the ends and 50 mm deep pockets of rot over girders. 2 ties, guardrail, risers and running planks require replacement. Bridge currently load rated for 41 tonnes based on deck condition, but no load posting sign in place.

P.Eng Comments

Replace the 2 rotting ties and all the deck planks, guardrail and risers. Extend the right bank downstream no post barriers; grade approaches and post bridge ahead signs. Present load rating of L45 or 41 tonnes to continue. Post load rating sign.



14/03/2017

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 Fair

Left approach downstream guardrail is short and partially buried. Significant drop to creek.

Posted Load Rating

No posting sign.

Road Surface Poor

Potholes in approach have resulted in heavy wear at end of deck.

Abutment

Log/Timber Cribs N/A

Tie Backs N/A

Bin Wall N/A

Concrete Good

Right abutment CIP concrete pedestals. Limited access due to steep drop to creek.

Caps or Sills Good

Concrete sill at right abutment.

Piles or Posts Good

Left abutment steel pipes and bracing.

Ballast Wall Good

Creosote treated timbers.

Wing Wall N/A

Bracing Good

Limited access, buried in material.

Hardware Fair

Fabric covering guardrail limited access.

Fill Fair

Minor erosion of fill at right abutment upstream corner adjacent to lock block.

Riprap Good

Bearings Fair

No access to R/B D/S bearing. Damage to R/B U/S bearing. L/B U/S bearing bulging.

Corrosion Protection Fair

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Deck

Running Surface	Poor	Potholes in approach have resulted in heavy wear at end of deck.
Running Planks	Poor	Heavily worn. Debris accumulating on deck, and held in place by fabric covering guardrail.
Sub Deck	N/A	
Ties	Fair	Limited access due to debris on deck. 2 ties at right abutment are rotten. Remaining creosote treated ties appear OK.
Nails	Poor	Protruding from wearing planks.
Deck to Girder Bolts	Unrated	No access.
Concrete Deck	N/A	
Grout Pockets	N/A	
Deck Joints	N/A	
Steel Deck Plate	N/A	
Gravel Surface	N/A	
Curb Rail/Blocks/Posts	Poor	Fabric and debris limited access. Rot in majority of risers, damage and pockets of rot in guardrail.
Hand Rails/Walkouts	N/A	
Hardware	Fair	
Overall Deck Condition	Poor	Heavily worn running planks, rotten rises, damage and pockets of rot in guardrail.
Gravel Depth (mm)		

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Steel/Concrete

Serial/ID Plate No ID Tag.

Girders Good

Diaphragms Good

Bracing Good

Under Trussing N/A

Hardware N/A

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

Log Curbs N/A

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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Hazards

Estimated Present Water Level Depth (m)	2	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	3	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	0	Ice	☐		

Comments Innergex report of dam upstream over topping and water washing over bridge. No associated damage noted.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Replace guardrail and risers. Requires 4 5200x250x250 mm and 6 4730x250x250 mm guard rail and 22 800x250x250 mm risers.
2	High	Replace running planks. Requires planks for 90 mm x 4.3 m x 24.5 m. Replace ties. Requires 2 5000x250x200 mm ties. Install longer fender at right approach downstream corner. Install load posting sign until repairs are performed.
3	Medium	Install bridge ahead signs. Regrade approach.

Item	Monitor Description	Frequency
1	Monitor bearing condition.	Routine Inspection

2

3

Sketch
(Select Signature)



Right Approach Facing Bridge



Right Approach Facing Away From Bridge



Right Approach Downstream Fender



Deck



Looking Upstream



Left Approach Facing Away From Bridge



Looking Downstream



Left Approach Facing Bridge



Right Abutment Damaged Guardrail



Upstream Elevation



Heavily Worn Running Plank



Left Bank Abutment



Right Abutment Upstream Girder



Left Approach Pothole Adjacent to Deck



Damage to Right Abutment Upstream Bearing



Downstream Elevation



Short Fender with Steep Drop at Right Approach Downstream Corner



Girder Condition



Right Bank Abutment



Left Bank Abutment