

CK-2378

STAVE RIVER 8.8km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude
49°28'38.79"	-122°14'19.6"
Crossing Name	Winslow Side Channel
FSR #	8013 Branch # 1
Road Name	STAVE RIVER
User km	8.8
Current Load Rating (tonnes)	68
Structure Class	Permanent Bridge
Portable	N
Superstructure	Steel I-beam
Deck Type	Concrete Removable
Abutment Left	Steel Pipe and Precast Pad
Abutment Right	Steel Pipe and Precast Pad
Spans	1
Total Length (m)	30.5
Deck Width (m)	4.9

Updated Data

Latitude	Longitude
49°28'39.28"	-122°14'20.68"
HD Diff. (m)	26.3 Accuracy (m) 5
30 tonnes	

Inspection

Date of Inspection 2016-07-27 1:45:38 PM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Right abutment ballast wall, guardrail, risers, blocking and compression seals require repair/replacement. Scour under right abutment footing appears similar to previous photos, but no measurements provided to allow comparison. Currently does not appear to affect stability of footing but will affect bearing capacity. Load posting recommended until repairs are performed. Monitoring required after each significant flow event.

P.Eng Comments

Replace deck/compression seals; replace guardrail, risers and blocks; repair damage to ballast wall; reinstate bearing of the downstream right bank footing and provide scour protection; brush and grade approaches; replace missing barriers/fender at downstream right approach; and realign CRB at upstream left approach. Limit loading to 30 tonnes until work completed, post load rating sign. Monitor the scour under the downstream right bank footing.



07/03/2017

P.Eng Seal

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Approach

Alignment Fair

 Bridge Ahead Signs
Missing ☐ 0 ☐ 1 ☒ 2

Brushing Required Y Vegetation obscuring bridge.

 Delineator Missing
Left ☒ 0 ☐ 1 ☐ 2

 Delineator Missing
Right ☒ 0 ☐ 1 ☐ 2

Fender Condition Fair Missing at right approach downstream corner. Partially overturned CRB at left approach upstream corner.

Posted Load Rating No sign in place.

Road Surface Poor Road is below level of the deck resulting in damage to ballast wall and deck panel.

Abutment

Log/Timber Cribs N/A

Tie Backs N/A

Bin Wall N/A

Concrete Poor Scour under left abutment downstream footing. Limited access. Scours appears to be 1.2 m wide across front face of footing & 300 mm deep.

Caps or Sills N/A

Piles or Posts Fair

Ballast Wall Poor Damage to both abutment ballast walls. Spalling and exposed rebar. 90 mm gap to deck panel in wheel track at right abutment.

Wing Wall N/A

Bracing Fair

Hardware Fair

Fill Fair

Riprap Poor Scour at right abutment downstream corner.

Bearings Fair

Corrosion Protection Fair Xymax coating.

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**Deck**

Running Surface	N/A	Road is below level of the deck resulting in damage to ballast wall and deck panel.
Running Planks	N/A	
Sub Deck	N/A	
Ties	N/A	
Nails	N/A	
Deck to Girder Bolts	Fair	
Concrete Deck	Fair	Debris accumulating at deck edges and at risers and blocking.
Grout Pockets	N/A	
Deck Joints	Poor	Compression seals have either fallen out or are damaged.
Steel Deck Plate	N/A	
Gravel Surface	N/A	
Curb Rail/Blocks/Posts	Poor	2 rotten, 1 failed riser. Majority of blocking has pockets of rot. A few pockets of rot and large checks in guardrail. Guardrail loose.
Hand Rails/Walkouts	N/A	
Hardware	Fair	
Overall Deck Condition	Fair	
Gravel Depth (mm)		

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Steel/Concrete

Serial/ID Plate No ID Tag. Iota L75 Aug 02.

Girders Good

Diaphragms Good

Bracing Good

Under Trussing N/A

Hardware Good

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)	3	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	20	Aggradation	☐	Scour	☒
Estimated High Water Level Clearance (m)	2	Ice	☐		

Comments Scour at right abutment downstream footing.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Reinstate bearing of right abutment downstream footing and place erosion protection.
2	High	Replace guardrail system. Consider installing Ministry Standard HSS guardrail. Timber guardrail will require: 4 4800x250x250mm, 6 6100x250x250mm, 2 3100x250x250mm guardrail sections, 24 650x250x250mm risers, and 24 900x250x250mm blocking.
3	Medium	Repair damaged ballast walls and install new compression seals. Install CRB at downstream right approach and realign other fenders. Regrade approaches. Requires 11 compression seals for 4.9 m wide deck.

Item	Monitor Description	Frequency
1	Monitor right abutment downstream footing after significant flow events.	Other

2

3

Sketch
(Select Signature)



Left Approach Facing Bridge



Left Approach Upstream Corner Partially Overturned Fender



Left Approach Facing Away From Bridge



Deck



Failed Compression Seal



Looking Upstream



Left Abutment Downstream Corner Rotten Risers



Looking Downstream



Right Approach Facing Away From Bridge



Right Abutment Damaged Ballast Wall in Wheel Track



Right Approach Facing Bridge



Right Approach Downstream Corner Missing Fender

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Downstream Elevation



Right Abutment Downstream Footing Scour



Left Bank Abutment



Right Abutment Downstream Footing Scour

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Right Abutment Downstream Corner



Right Bank Abutment



Girders



Upstream Elevation