

CK-2224

PITT RIVER 23km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
49°42'40.5"	-122°42'24.8"		
Crossing Name	Shale Creek		
FSR #	8394	Branch #	1
Road Name	PITT RIVER		
User km	23		
Current Load Rating (tonnes)	91		
Structure Class	Temporary Bridge		
Portable	N		
Superstructure	Steel I-beam		
Deck Type	Timber - Untreated		
Abutment Left	Crib, Log or Untreated Timber		
Abutment Right	Crib, Log or Untreated Timber		
Spans	1		
Total Length (m)	24.4		
Deck Width (m)	4.3		

Updated Data

Latitude	Longitude		
49°42'40.42"	-122°42'23.83"		
HD Diff. (m)	19.6	Accuracy (m)	5

Inspection

Date of Inspection 2016-08-04 9:08:11 AM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

The running planks were replaced in November 2014 and bridge ahead signs have been installed since. The top crib log at the right abutment has a horizontal split and signs of bug infestation under the girder. No rot was identified and there are no signs of crushing or bulging. Signs of bug infestation were also noted at the downstream end of the log, outside the bearing area. The deterioration of the cribs should be monitored during future inspections.

P.Eng Comments

Replace guide logs with appropriate sized ones. Monitor crib condition, especially top crib log on right bank. Present load rating of L100 or 91 tonnes to continue.



27/02/2017

P.Eng Seal

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Approach

Alignment Poor

Tight horizontal and 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 Fair

Undersized and rotting guide logs. Boulders at left approach downstream corner.

Posted Load Rating

No load posting sign.

Road Surface Fair

Potholes forming in left approach wheel tracks.

Abutment

Log/Timber Cribs Fair

Typical 25 mm sap rot under girders. R/B U/S corner under girder, horizontal split in top crib log with signs of bug infestation. No crushing or distress noted. No rot identified in cores.

Tie Backs Fair

Some minor heart rot at ends. No crushing or distress noted.

Bin Wall N/A

Concrete N/A

Caps or Sills N/A

Piles or Posts N/A

Ballast Wall Fair

Sawn logs. Moss growth.

Wing Wall N/A

Bracing N/A

Hardware Good

Fill Good

Riprap Good

Bearings N/A

Corrosion Protection N/A

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Deck

Running Surface	Good	Potholes forming in left approach wheel tracks.
Running Planks	Good	Some damage from vehicle tracks. Replaced in 2014.
Sub Deck	Fair	Creosote treated.
Ties	Fair	Creosote treated.
Nails	Good	
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	Good	
Hand Rails/Walkouts	N/A	
Hardware	Poor	Abutment hardware: lashing loose.
Overall Deck Condition	Good	
Gravel Depth (mm)		

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Steel/Concrete

Serial/ID Plate Modular Bridge Systems

Girders Fair

Diaphragms Fair

Bracing Fair

Under Trussing N/A

Hardware Fair

Deck hardware OK.

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)	1.5	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	4	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	5	Ice	☐		

Comments Bridge crosses gorge.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	Medium	Install appropriate sized fenders at approach corners without boulders.
2	Low	Fill pothole in left approach and clear debris from end of deck.
3		

Item	Monitor Description	Frequency
1	Monitor deterioration of right abutment log crib.	Routine Inspection
2		
3		

Sketch
(Select Signature)



Left Approach Facing Bridge



Deck Note Track Marks



Left Approach Facing Away From Bridge



Looking Upstream



Looking Downstream



Right Approach Facing Bridge



Right Approach Facing Away From Bridge



Left Bank Abutment



Right Bank Abutment



Downstream Elevation



Girders



R/B U/S Corner Split in Top Crib Log with Signs of Bug Infestation



R/B U/S Corner Signs of Bug Infestation in Top Crib Log



Left Bank Abutment



R/B D/S Corner Signs of Bug Infestation



Right Bank Abutment

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Upstream Elevation



Left Approach Pothole Forming



Right Abutment Upstream Corner



Guardrail