CK-2236	SOWAQUA 9.6km	2019 Inspection

CBR iPad Offline Ver 0.31

CBR Data

Latitude	Longitude
49°23'44.59"	-121°11'52"

Crossing Name	Not Known
FSR #	7004
Branch #	1
Road Name	SOWAQUA
User km	9.6
Previous Load Rating (tonnes)	68
Structure Class	Temporary Bridge
Portable	Y
Superstructure	Steel I-beam
Deck Type	Timber - Untreated
Abutment Left	Sill -Temporary Materials
Abutment Right	Sill -Temporary Materials
Spans	1
Total Length (m)	15.2
Deck Width (m)	4.9

Updated Data

Latitude	Longitude
49°23'44.57"	-121°11'51.63"

HD Diff. (m)	7.5	Accuracy (m)	10

L45 or 41 tonnes

Inspection

Date of Inspection	2019-04-30 11:38:01 AM	Recommended Next Inspection Year	2021
Inspector Name	Tyson Miller	Inspection Company	FLNRORD

Inspector Comments

Right bank sub deck in poor condition. Outside wear planks (2 outer strips on both upstream and downstream) in poor condition. Steel not bearing square on log sills. Left bank sill has up to 50mm sap rot. Riprap is round, not well graded or tied into stream banks. Fairly high public use given access to HBC trail, even though road in poor condition.

P.Eng Comments

The wear planks and subdeck are in relatively poor overall condition. The steel girders do not bear squarely on the log sills at either abutment. The left bank log sill has up to 50mm sap rot. The riprap has been rated as fair however it is limited and consists of round pieces that are not well tied together or into the stream banks to provide good protection - this should monitored following heavy precipitation events. There are a few trees that lay across the stream channel directly above the the structure that are a risk to being transported by high flows into the bridge crossing, these should be removed. Given the condition of the entire structure I recommend a complete replacement prior to industrial activity. Limit loading to L45 or 41 tonnes. Post load rating sign.

03/05/2019

P.Eng Seal

Approach

Alignment	Fair	VC right approach
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	Logs right bank, large boulders left bank
Posted Load Rating		Not posted
Road Surface	Fair	

Abutment

Log/Timber Cribs		
Tie Backs		
Bin Wall		
Pier		
Concrete		
Caps or Sills	Fair	Left bank log sill is old with up to 50mm sap rot, right bank log sill appears newer
Piles or Posts		
Ballast Wall	Poor	Right bank log ballast wall rotten but functional, see attached picture
Wing Wall		
Bracing		
Hardware	Fair	Nails (and approach fill) hold girders on log sills
Fill	Fair	
Riprap	Fair	Some round pieces, not well graded, tied together or into the stream banks
Bearings	Fair	Bearing plates not completely on log sills, log sills not cut flat, and not even or square bearing
Corrosion Protection		

Deck

Running Surface		
Running Planks	Poor	Heavily worn, especially on outside 2 strips both upstream and downstream
Sub Deck	Poor	The first 4m on right bank in poor condition, remaining in fair condition
Ties	Fair	
Nails	Poor	Protruding
Deck to Girder Bolts	Good	
Concrete Deck		
Grout Pockets		
Deck Joints		
Steel Deck Plate		
Gravel Surface		
Curb Rail/Blocks/Posts	Fair	
Hand Rails/Walkouts		
Hardware	Poor	Due to protruding nails at surface
Overall Deck Condition	Poor	Due to plank, subdeck and hardware condition
Gravel Depth (mm)		
Pier Deck		

Steel/Concrete

Girders	Fair	Minor corrosion
Diaphragms	Fair	4 welded bays with minor corrosion. Both bottom chords at abutments slightly twisted
Bracing	Fair	Minor corrosion
Under Trussing		
Hardware		
Welded/grouted shear connectors		

Log

Log Curbs	
Needle Beam	
Needle Lashing/ Shimming	

Needle Beam to Crib (m) | Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment

Hazards

Estimated Present Water Level Depth (m)	0.5	High Water		Debris	X
Estimated Present Water Level Width (m)	5.0	Aggradation		Scour	
Estimated High Water Level Clearance (m)	1.5	Ice			

Comments

Trees have fell across stream above bridge crossing location and are a risk to being transported into the bridge in high flows

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Low	Post bridge ahead signs
2	High	Remove trees that have sloughed into stream channel upstream of bridge
3	High	Post load rating sign

Item	Monitor Description	Frequency
1	bearing plate deformation	Routine inspection
2	riprap scour	Routine inspection
3		

Sketch
(Select Signature)

Approach from Left Bank when facing downstream

Planks

Deck

Upstream from Crossing, remove trees that have sloughed into stream

Downstream from Crossing

Approach from Right Bank when facing downstream

Structure ID

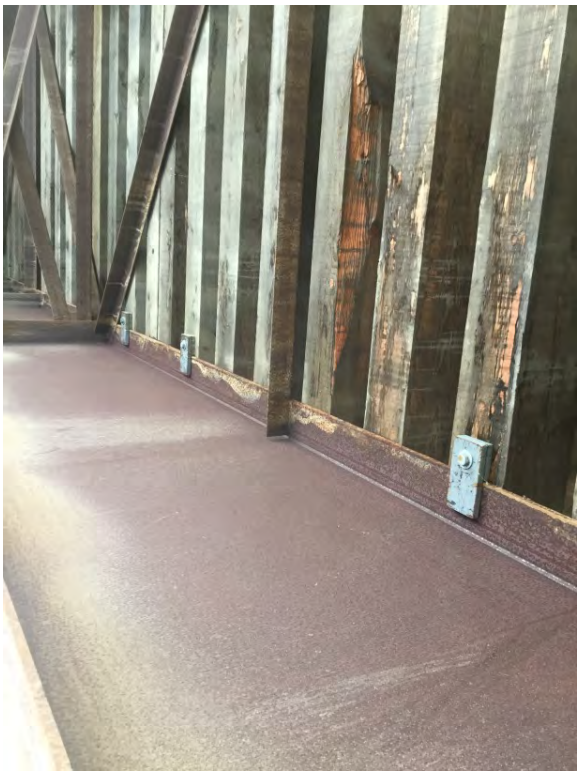
Downstream right bank bearing

Subdeck condition

Upstream right bank bearing

Left Bank Abutment when facing downstream

Log ballast wall rotten but still functional



Deck clips

Right Bank Abutment when facing downstream

Bottom chord at left bank bent

Superstructure