

CK-2237

SOWAQUA 14.6km

2019 Inspection

CBR iPad Offline Ver 0.31



CBR Data

Latitude	Longitude		
49°22'9.19"	-121°9'36.5"		
Crossing Name	Montigny Creek		
FSR #	7004	Branch #	1
Road Name	SOWAQUA		
User km	14.6		
Previous Load Rating (tonnes)	68		
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)	18.3		
Deck Width (m)	4.3		

Updated Data

Latitude	Longitude		
49°22'9.09"	-121°9'36.63"		
HD Diff. (m)	4.2	Accuracy (m)	10
L45 or 41 tonnes			

Inspection

Date of Inspection 2019-04-30 12:31:59 PM

Recommended Next Inspection Year 2021

Inspector Name Tyson Miller

Inspection Company FLNRORD

Inspector Comments

The wear planks and subdeck are in poor condition overall. The log crib tiebacks are in poor condition. The log crib, timber sill and steel I beam connections are in poor condition. The top log of the right bank ballast wall has failed downstream.

P.Eng Comments

The wear planks and subdeck are in poor overall condition. The steel girders do not bear squarely on the steel I beam cap. The steel I beam cap bears on a timber plank on top of the log crib, and those connections are considered poor. The right bank log crib has up to 60mm sap rot. The right bank top ballast wall log has failed downstream. 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

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Approach

Alignment Fair

HC both approaches

 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

Logs falling off road

Posted Load Rating

Not posted

Road Surface Fair

Abutment

Log/Timber Cribs Fair

2x Fd face logs with bark still on, with up to 60mm sap rot

Tie Backs Poor

3x unpeeled, small diameter (300mm) and rotting

Bin Wall

Pier

Concrete

Caps or Sills Poor

steel I beam not centered under girders on top of 100mm thick timber - both poorly connected

Piles or Posts

Ballast Wall Poor

old logs with significant rot, top log on right abutment has failed downstream

Wing Wall

Bracing

Hardware Poor

Very few nails holding timber and steel I beam cap on log crib

Fill Fair

Riprap Fair

Bearings Fair

Steel girders do not bear squarely on abutment and are unconnected

Corrosion Protection

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Deck

Running Surface

Running Planks

Poor

Planks are wearing

Sub Deck

Poor

Rot indicators all over undear side of subdeck

Ties

Fair

Nails

Fair

Deck to Girder Bolts

Good

Deck clips

Concrete Deck

Grout Pockets

Deck Joints

Steel Deck Plate

Gravel Surface

Curb Rail/Blocks/Posts

Fair

Hand Rails/Walkouts

Hardware

Fair

Overall Deck Condition

Poor

Due to subdeck and plank condition

Gravel Depth (mm)

Pier Deck

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Steel/Concrete

Girders Fair

Minor corrosion and only a section of complete girder set

Diaphragms Fair

Minor corrosion and minor damage noted at right abutment

Bracing Fair

Minor corrosion and minor damage noted at right abutment

Under Trussing

Hardware Fair

Bolts

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

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Hazards

Estimated Present Water Level Depth (m)	0.5	High Water	☐	Debris	☒
Estimated Present Water Level Width (m)	8.0	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	1.5	Ice	☐		

Comments Approx 100m upstream is a continuously ravelling slope that moves sediment into stream

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	High	Post load rating sign
2	Low	Replace missing delineator and post bridge ahead signs
3		

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)



Approach from Left Bank when facing downstream



Deck



Upstream from Crossing



Downstream from Crossing



Deck wear



Approach from Right Bank when facing downstream



Top face log condition at right bank abutment



Subdeck condition at right abutment



Top log of ballast wall at right bank is failing



Right Bank Abutment when facing downstream



Left Bank Abutment when facing downstream



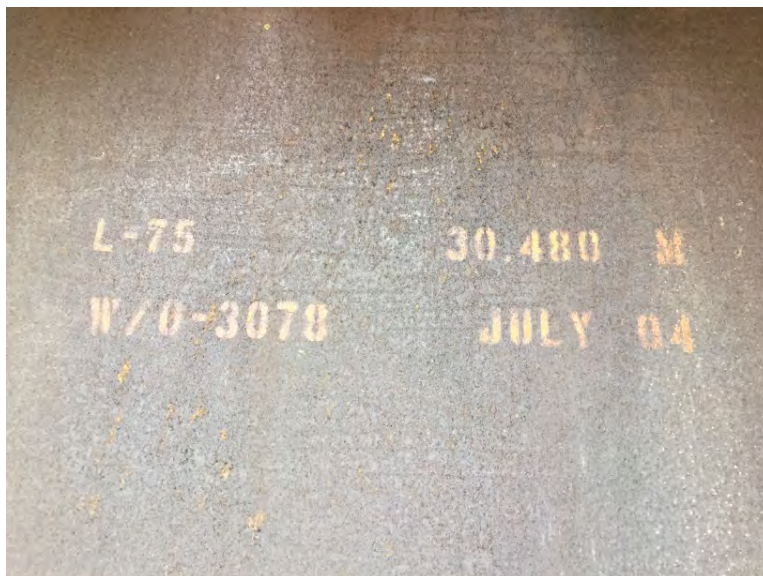
Subdeck condition at midspan



Tieback condition at left bank



Superstructure



Structure ID



Bearing at downstream left bank