

CK-2207

MOWHOKAM 15.7km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
50°3'2.48"	-121°26'39.6"		
Crossing Name	Mowhokam Creek		
FSR #	8019	Branch #	2
Road Name	MOWHOKAM		
User km	15.7		
Current Load Rating (tonnes)	30		
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)	12.1		
Deck Width (m)	4.3		

Updated Data

Latitude	Longitude		
50°3'1.94"	-121°26'40.11"		
HD Diff. (m)	19.4	Accuracy (m)	5

0 tonnes

Inspection

Date of Inspection 2016-07-23 4:19:21 PM

Inspector Name Jamie Rupa Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Recycled steel and timber structure bears on old log crib abutment. Fungal growth noted on log crib components with vegetation growing out of top log. Significant sap rot on bottom logs. No signs of crushing or distress noted. Previous inspection noted 30 tonne load rating, that should be re-evaluated based on log crib condition.

P.Eng Comments

The steel girders bear on log sills which are directly overtop the old log stringer deck and log cribs; and both components (stringers and crib) continue to deteriorate. While the structure, as it stands now, can withstand light loads the condition of the old log structure puts the steel structure and users at risk. Based on that I recommend closing the bridge (bridge condemned), removing both structures and reinstalling a longer permanent style structure at this site.



P.Eng Seal

Aug 4/2016

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Approach

Alignment Fair

Horizontal and vertical curve.

Bridge Ahead Signs
Missing
☐ 0 ☒ 1 ☐ 2

Right approach sign missing.

Brushing Required Y

Restricts sight lines.

Delineator Missing
Left
☒ 0 ☐ 1 ☐ 2

Small aluminum upstream delineator.

Delineator Missing
Right
☒ 0 ☐ 1 ☐ 2

Small plastic upstream delineator.

Fender Condition Poor

Not in place at left abutment. Right abutment upstream guide log buried in fill.
Undersized guide logs on downstream side.

Posted Load Rating

No posting sign.

Road Surface Fair

Abutment

Log/Timber Cribs Poor

Log cribs support new sill logs, which are placed on old log stringer bridge deck. Below girders 180 mm of sap wood rot noted in bottom logs, 50 mm sap wood rot noted in top logs.

Tie Backs Poor

All rotten.

Bin Wall N/A

Concrete N/A

Caps or Sills Fair

Log caps supporting steel girders.

Piles or Posts N/A

Ballast Wall Poor

Top ballast wall logs rotten, bug infestation noted in one log, up to 100 mm sap rot found.
Upstream sections not accessible.

Wing Wall N/A

Bracing N/A

Hardware Good

Fill Fair

Riprap Poor

Limited material smaller than that being transported by creek.

Bearings N/A

Corrosion Protection N/A

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Deck

Running Surface Fair

Running Planks Good Light wear in wheel tracks.

Sub Deck N/A

Ties

Nails Unrated Not visible due to debris accumulation.

Deck to Girder Bolts

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 N/A

Overall Deck Condition Good

Gravel Depth (mm)

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Steel/Concrete

Serial/ID Plate No ID Tag. L75 painted on web.

Girders Fair Recycled girders from longer span.

Diaphragms Fair

Bracing Fair

Under Trussing N/A

Hardware Fair

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)	0.5	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	7	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	0.5	Ice	☐		

Comments Lower log stringer structure will be affected by high water and may affect stability of steel girder structure.

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	High	Replacement of bridge required.
2		
3		

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)



Left Approach Facing Bridge



Deck



Left Approach Facing Away From Bridge



Right Approach Facing Away From Bridge



Right Approach Facing Bridge



Looking Upstream



Wearing Planks



Looking Downstream



Left Bank Abutment



Girders



Right Bank Abutment



Upstream Elevation



Left Bank Abutment



Left Abutment Downstream Corner Fungal Growth



Downstream Elevation



Left Bank Abutment



Right Abutment Crib Fungal Growth



Sill Log Bearing on Old Bridge Deck & Log Crib