

CK-2022

CHEHALIS 15.2km

2018 Inspection

CBR iPad Offline Ver 0.28



CBR Data

Latitude 49°20'49.4" Longitude -122°1'28.5"

Crossing Name Statlu Creek

FSR # 8241 Branch # 1

Road Name CHEHALIS

User km 15.2

Current Load Rating (tonnes) 64

Structure Class Temporary Bridge

Portable N

Superstructure Steel I-beam

Deck Type Timber - Untreated

Abutment Left Concrete Precast

Abutment Right Concrete Precast

Spans 1

Total Length (m) 37.6

Deck Width (m) 4.8

Updated Data

Latitude 49°20'49.4" Longitude -122°1'29.05"

HD Diff. (m) 11.1 Accuracy (m) 5

30 tonnes

Inspection

Date of Inspection 2018-04-26 11:52:50 AM

Recommended Next Inspection Year 2019

Inspector Name Tyson Miller

Inspection Company MFLNRO

Inspector Comments Serial/ID Plate

P.Eng Comments

Due to the poor condition of the timber deck components limit loading to 30 tonnes and replace the entire deck assembly (ties, running deck, guardrail and risers) if continued industrial activity is required. While the deck is off closely inspect the end bracing sets and replace if required (at both abutments). Replace the log fenders with appropriate sized ones at the left approach. There are logs buried behind the left abutment CIP that have not been appropriately protected with riprap, and the stream has eroded some of the fill around these logs leaving large gaps in the fill. Because of this, I recommend adding riprap to help protect and support the related road approach fill located above. This entire repair should be consider temporary due to the age and condition of some of these bridge components. If a permanent repair is required please contact the undersigned. Please post load rating sign ASAP.



P.Eng Seal

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Approach

Alignment Good

 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 left approach fenders are small and should be replaced with larger ones

Posted Load Rating 64000

Road Surface Good

Abutment

Log/Timber Cribs

Tie Backs

Bin Wall

Concrete Fair Lock blocks at right bank, 3 on bottom are cracking and should be monitored, CIP left bank

Caps or Sills Fair Log sill at left bank, concrete at right bank is in good condition

Piles or Posts

Ballast Wall Fair Concrete right bank is good, logs left bank

Wing Wall Fair Lock blocks downstream right bank, logs left bank

Bracing

Hardware Geogrid between each row of lock blocks

Fill Fair There are logs buried behind CIP abutment at the left bank that are old and supporting fill

Riprap Fair Poor upstream left bank as it is not well graded and holes in-between large pieces

Bearings Fair Keepers have separated from plates

Corrosion Protection

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Deck

Running Surface

Running Planks

Poor

Wearing heavily at both ends

Sub Deck

Poor

Numerous indicators of rot - cored at random locations and confirmed poor condition

Ties

Fair

Fair to poor - cored in random locations and confirmed rot

Nails

Poor

Protruding through wear planks at random locations

Deck to Girder Bolts

Poor

Only could verify 1 set

Concrete Deck

Grout Pockets

Deck Joints

Steel Deck Plate

Gravel Surface

Curb Rail/Blocks/Posts

Poor

Fair to poor - Cored random risers and pockets of rot detected

Hand Rails/Walkouts

Hardware

Fair

Overall Deck Condition

Poor

Due to poor timber condition

Gravel Depth (mm)

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Steel/Concrete

Girders Fair

Painted girders with minor corrosion noted

Diaphragms Fair

6 welded bays, heavily corroded at bearing locations

Bracing Fair

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

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Hazards

Estimated Present Water Level Depth (m)	2.0	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	22.0	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	2.5	Ice	☐		

Comments Replace log fenders with appropriately sized ones
 Add riprap to upstream left bank to help support rotting logs and corresponding fill

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Post updated load rating sign
2	High	Replace complete timber deck assembly (ties, subdeck, wear planks, guardrail and risers)
3	High	Replace end bracing sets at both ends

Item	Monitor Description	Frequency
1	Lock block condition at right abutment	Routine Inspection
2	Left bank abutment condition	Routine Inspection
3		

Sketch
 (Select Signature)



Approach from Left Bank when facing downstream



Deck - wearing on wheel path at both approaches



Low fenders at left approach



Looking upstream from deck



Looking downstream from deck



Approach from Right Bank when facing downstream



Random tie exposed with signs of decay



Upstream right bearing



Downstream right bearing



End diaphragm at right abutment heavily corroded



Surficial cracking of lock blocks at right bank



Left Bank Abutment when facing downstream



Indications of deck rot throughout



Right Bank Abutment when facing downstream



Lock block wing wall at downstream right bank



Underside of deck at left abutment



Superstructure



Up to 50mm sap rot on log wingwall on left bank



Bracing at left bank appears heavily corroded



Logs buried in fill at left abutment behind CIP