CK-2274
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STAVE 29.4km

2022 Inspection

CBR iPad Offline Ver 0.36

CBR Data

Latitude	Longitude
49°35'37.1"	-122°24'6.1"

Site Status	Active
Insp. Status	Inspect
Crossing Name	Side Creek
FSR #	8013
Branch #	1
Road Name	STAVE
User km	29.4
Previous Load Rating (tonnes)	10
Structure Class	Temporary Bridge
Portable	N
Superstructure	Log Stringers
Deck Type	Gravel
Abutment Left	Sill -Temporary Materials
Abutment Right	Sill -Temporary Materials
Spans	1
Total Length (m)	7.8
Deck Width (m)	6.4

Updated Data

Latitude	Longitude
49°35'37.44"	-122°24'6.04"

HD Diff. (m)	10.6	Accuracy (m)	6

	L45 or 41 tonnes
	1
	9.45
	4.6

Inspection

Date of Inspection	2022-09-09 11:22:19 AM
Inspector Name	Cameron VandenBrink, EIT
Recommended Next Inspection	2024
Inspection Company	Chartwell Resource Group Ltd

Inspector Comments

Serial/ID Plate

C/c=6.9m

P.Eng Comments

The structure has had work completed to it recently, please send record drawings and crossing assurance statements to the Ministry. In the meantime, limit loading to L45 or 41 tonnes. Post load rating signs. Install curb logs that meet section 26.81 of the OH&S Regulation. Install bridge ahead signs and replace the missing delineators. The riprap appears to be undersized and likely mobile, and there doesn't appear to be sufficient freeboard for Q100 or debris flow events - monitor for future damage and plan to replace soon.

PERMIT TO PRACTICE: 1003022

Approach

Alignment	Fair	
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	Short and undersized logs used
Posted Load Rating		Not posted
Road Surface	Fair	Potholes leading up to structure

Abutment

Log/Timber Cribs		
Tie Backs		
Bin Wall		
Pier		
Concrete		
Caps or Sills	Fair	Single oversized sills
Piles or Posts		
Ballast Wall		
Wing Wall		
Bracing		
Hardware		
Fill	Good	
Riprap	Fair	Oversteepened on downstream ends
Bearings		
Corrosion Protection		

Deck

Running Surface	Fair	Potholes leading up to structure
Running Planks		
Sub Deck		
Ties		
Nails		
Deck to Girder Bolts		
Concrete Deck		
Grout Pockets		
Deck Joints		
Steel Deck Plate		
Gravel Surface	Fair	
Curb Rail/Blocks/Posts	Fair	curb logs not lashed or pinned into position
Hand Rails/Walkouts		
Hardware	Fair	3 belly lashing location. Mid span am 1m inset of sills. Lashing tight but not proper.
Overall Deck Condition	Good	
Gravel Depth (mm)	55	
Pier Deck		

Steel/Concrete

Girders

Diaphragms

Bracing

Under Trussing

Hardware

Welded/grouted shear connectors

Log

Log Curbs: Fair — Not pinned down

Needle Beam

Needle Lashing/ Shimming

Needle Beam to Crib (m)

Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment
1	Fd	Y	420	30	Fair	
2	Fd	Y	454	20	Fair	
3	Fd	Y	510	25	Fair	
4	Fd	Y	470	30	Fair	Big knots
5	Fd	Y	480	40	Fair	
6	Fd	Y	455	55	Fair	
7	Fd	Y	440	50	Fair	
8	Fd	Y	450	20	Fair	
9	Fd	Y	510	40	Fair	
10	Fd	Y	515	20	Fair	
11	Fd	Y	435	20	Fair	Mech damage 1m low chain of lashing.
12	Fd	Y	405	30	Fair	
13	Fd	Y	380	50	Fair	

Hazards

Estimated Present Water Level Depth (m)	0	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	0	Aggradation	☐	Scour	☒
Estimated High Water Level Clearance	1	Ic	☐		

Comments: High chain end of both curbs to low. Also pin curbs to brow logs. Monitor scour, old structure had scour issues, appears to be re used riprap material so may be easily mobilized.

Repairs and Monitoring

	Repair Item	Repair Description
1	Structure. Log/timber stringer maintenance. m. Priority:Medium	Install proper dimension curb logs
2	Structure. Delineator maintenance. Priority: Medium	Install missing delineators.
3	Approach. Bridge ahead signs. Priority: Medium	Post bridge ahead signs.
4	Approach. Load Rating Signs. Priority: High	Post load rating signs.
5		
6		
7		

	Item	Monitor Description	Frequency
1	Riprap		Routine Inspection
2			
3			

Upstream from Crossing

Approach from bridge deck of Right bank approach when facing downstream

Downstream from Crossing

Approach from bridge deck of Left bank approach when facing downstream

Approach from Right Bank when facing downstream

Approach from Left Bank when facing downstream

Upstream Profile

Right Bank Abutment when facing downstream

Outside stringer lied to sill

Left Bank Abutment when facing downstream

Belly lashing

Downstream Profile