

CK-2157
CK-2157

HUNTER 2.2km

2023 Inspection

CBR iPad Offline Ver 0.36B



CBR Data

Latitude 49°20'35.3" Longitude -121°34'4.9"

Site Status Active

Insp. Status Inspect

Crossing Name Hunter Creek

FSR # 6086 Branch # 1

Road Name HUNTER

User km 2.2

Previous Load Rating (tonnes) 64

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) 32.6

Deck Width (m) 4.3

Updated Data

Latitude 49°20'35.22" Longitude -121°34'5.2"

HD Diff. (m) 6.5 Accuracy (m) 6

20 tonnes

Inspection

Date of Inspection 2023-04-25 9:37:18 AM

Recommended Next Inspection 2024

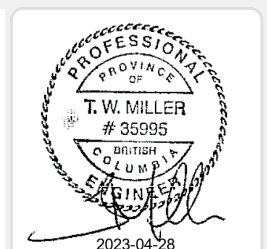
Inspector Name Cameron VandenBrink, P.Eng.

Inspection Company Chartwell Resource Group Ltd.

P.Eng comments

The timber deck was cored at random locations from the running surface and found to be in poor condition. The log crib is 38 years old and currently still in fair condition; however, it is approaching the end of its industrial lifespan. The inspector has noted apparent rotation at the right bank abutment; however, there does not appear to be any difference in the photos from previous inspections or from the original installation photos - monitor. Considering the age and condition of the timber deck and the log crib abutments, I recommend a complete structure replacement. Limit loading to 20 tonnes and post updated load rating signs. Post missing bridge ahead sign; brush approaches; install guide logs at right approach (minimum 600mm diameter x 6m length). Until the structure is replaced, monitor the crib and riprap condition.

Replacing the timber deck (cross ties, subdeck and running planks) would result in an increased load rating (BCL-625 or 64 tonnes); however, the structure has not had any sustained log hauling in some years and the crib condition will need to be monitored shortly after the hauling commences. If this approach is considered, I recommend an inspection be completed 1 week after sustained hauling commences and 3 additional weekly inspections thereafter. If any settlement or further deterioration is noted in the abutments the load rating would likely have to be reduced and/or the structure replaced. Please send all inspections (completed by a qualified professional) to the Coast Engineering Group.



PERMIT TO
PRACTICE: 1003022

CK-2157
CK-2157

HUNTER 2.2km

2023 Inspection

CBR iPad Offline Ver 0.36B



Approach

Alignment Fair

HC both approaches.

Bridge Ahead Signs

Missing

☐ 0

☒ 1

☐ 2

Left approach. However bridge warning and load rating present.

Brushing Required Y

Remove cedars growing around right abutment

Delineator Missing

Left

☒ 0

☐ 1

☐ 2

Delineator Missing

Right

☒ 0

☐ 1

☐ 2

Fender Condition Fair

Combo of blocks, rocks and logs. Logs are undersized and should be replaced. Right bank up and downstream require larger rocks or new guidelogs installed. Currently not functional.

Posted Load Rating 63500

Road Surface Fair

Potholes on both approaches

Abutment

Log/Timber Cribs Fair

Fair to poor. Right bank appears to have rotated into the approach fills by the angle of the visible tie backs. 50mm +/- rot.

Tie Backs Fair

Fair to poor. Ends split, considerable rot. Right bank appears to have rotated

Bin Wall

Pier

Concrete

Caps or Sills Good

2-300x300 creosote timbers atop reinforced I beam. Bottom flange bolted to beam.

Piles or Posts

Ballast Wall Fair

Wing Wall Fair

Logs tied onto ballast walls

Bracing

Hardware

Fill Fair

Riprap Fair

Large oversteepened on left bank. Monitor downstream toe. Right bank is poor with no riprap

Bearings Fair

Corrosion Protection

CK-2157
CK-2157

HUNTER 2.2km

2023 Inspection

CBR iPad Offline Ver 0.36B



Deck

Running Surface	Poor	Potholes on both approaches
Running Planks	Poor	Rotten
Sub Deck	Poor	Rotten
Ties	Poor	Rotting from the top down. Spot checked 5 locations, 1 sound at interface of sub deck. Rest have over 2" of rot. 2 jammed drill 4.5-5" into tie with wet rotten wood.
Nails	Poor	Protruding due to rotten planks. Some bent over, some sit proud and a few broken off.
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	Fair	
Overall Deck Condition	Poor	Due to timber deck condition. Deck is also covered in sediment and requires cleaning.
Gravel Depth (mm)		
Pier Deck		

CK-2157
CK-2157

HUNTER 2.2km

2023 Inspection

CBR iPad Offline Ver 0.36B



Steel/Concrete

Girders Fair

Minor sag in girders.

Diaphragms Fair

11 bolted bays - galvanized

Bracing Fair

Under Trussing

Hardware Fair

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

CK-2157
CK-2157

HUNTER 2.2km

2023 Inspection

CBR iPad Offline Ver 0.36B



Hazards

Estimated Present Water Level Depth (m)	1.2	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	13	Aggradation	☐	Scour	☒
Estimated High Water Level Clearance	1.6	Ice	☐		

Comments Monitor riprap toe for scour on left bank.

Repairs and Monitoring

Repair Item	Repair Description
1 Approach. Load rating signs. High	Post load rating signs
2 Approach. Approach fenders (install). # of units. Priority:Medium	Install guidelogs on downstream right approach. Fill gap between blocks and bridge end with guide log on upstream right approach. Min 600mm x 6m
3 Approach. Area/sight line brushing. m². Priority:Low	Remove cedar trees growing around right abutment.
4	
5	
6	
7	

Item	Monitor Description	Frequency
1	Log crib condition.	Anually
2	Riprap scour and right bank erosion	Anually
3		



Load Rating Sign



Approach from Right Bank when facing downstream



Deck



Upstream from Crossing



Downstream from Crossing



Right bank approach viewing from bridge deck



Left bank approach viewing from bridge deck



Approach Barrier, left upstream



Approach Barrier, right upstream



Approach Barrier, left upstream



Approach from Left Bank when facing downstream



Downstream Profile



Downstream left riprap toe



Downstream left crib end



Bearing, Left



Superstructure



Right Bank Abutment when facing downstream



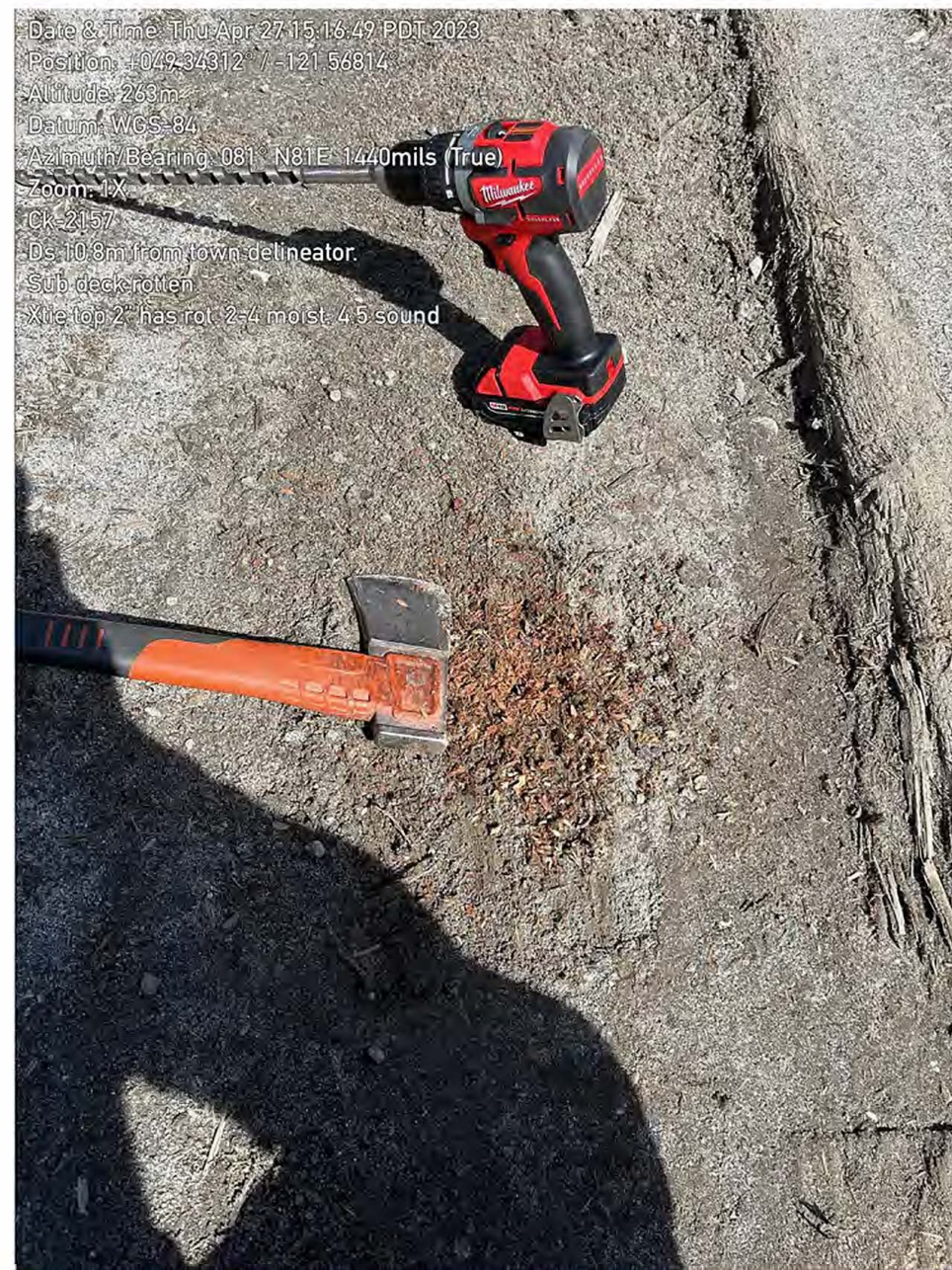
Right Bank Abutment when facing downstream



Bearing



Deck condition from underneath







Date & Time: Thu Apr 27 15:41:57 PDT 2023

Position: +049 34311° / -121 56793°

Altitude: 263m

Datum: WGS 84

Azimuth/Bearing: 152° S28E 2702mits (True)

Zoom: 1X

Ck-2157

Is 26.9 from town

Wheel path: sub-deck rotten

4.5" into tie. Wet rotten wood jamming drill

