

CK-2457

NORRISH 13.6km

2019 Inspection

CBR iPad Offline Ver 0.31



CBR Data

Latitude	Longitude
49°16'31.4"	-122°5'23.8"
Crossing Name	Unknown
FSR #	10326
Branch #	1
Road Name	NORRISH
User km	13.6
Previous Load Rating (tonnes)	63
Structure Class	Major Culvert
Culvert Type	Open Bottom
Culvert Material	Corrugated Steel
Opening Height (mm)	1440
Opening Width (mm)	2740
Inlet Cover (mm)	500
Outlet Cover (mm)	700
Culvert Gradient %	
Culvert Length (m)	10

Updated Data

Latitude	Longitude
49°16'31.27"	-122°5'23.54"
HD Diff. (m)	6.6
Accuracy (m)	5
BCL-625 or 63 tonnes	
700	
800	
5	

Inspection

Date of Inspection 2019-09-24 11:11:17 AM

Inspector Name Tyson Miller

Recommended Next Inspection Year 2020

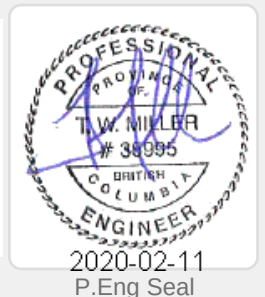
Inspection Company FLNRORD

Inspector Comments

Wrong structure for site
Monitor site

P.Eng Comments

Clean the inlet and monitor future inlet aggradation and outlet scour, especially following heavy precipitation or rain on snow events. Consider replacing the structure. Current load rating of BCL-625 or 63 tonnes to continue.



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Approach

Alignment Fair

Bridge Ahead Signs
Missing ☒ 0 ☐ 1 ☐ 2 NA

Brushing Required N

Delineator Missing
Left ☒ 0 ☐ 1 ☐ 2 NA

Delineator Missing
Right ☒ 0 ☐ 1 ☐ 2 NA

Fender Condition Fair

Logs on fill slope

Posted Load Rating

Not posted

Road Surface Good

Abutment

Log/Timber Cribs

Tie Backs

Bin Wall

Pier

Concrete

Caps or Sills

Piles or Posts

Ballast Wall

Wing Wall

Bracing

Hardware

Fill

Riprap

Bearings

Corrosion Protection

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Culvert

Baffles

Bolted Connections

Good

Coating

Good

Coupled Connections

Embedment Materials

Fair

Material aggrading at the inlet and eroding at the outlet

Fill

Fair

Floor

Footing

Fair

Concrete precast footing visible at outlet

Head Walls

Inlet

Fair

Aggrading

Outlet

Fair

Scouring

Overall

Fair

Rip Rap

Fair

Riprap noted at the inlet that is smaller than what the stream transports

Roof

Fair

Only damage noted at outlet

Sidewalls

Good

Trash Rack

Weirs/Backwater
Structures

Wing Walls

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Hazards

Estimated Present Water Level Depth (m)	0.4	High Water	☐	Debris	☒
Estimated Present Water Level Width (m)	4.0	Aggradation	☒	Scour	☒
Estimated High Water Level Clearance (m)	1.0	Ice	☐		

Comments Consider replacing the entire structure

Repairs and Monitoring

Repair Item	Priority	Repair Description
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1

2

3

Item	Monitor Description	Frequency
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1 Inlet aggradation and outlet scour

Anually

2

3

Sketch
(Select Signature)



Approach from Right Bank when facing downstream



Upstream from Crossing



Downstream from Crossing



Approach from Left Bank when facing downstream



Inlet



Right bank inlet armoring consists of material smaller than what the stream transports, plus organic material



Outlet



Looking through culvert from outlet



Appears to have consistent bearing



Some damage to outlet of culvert