

CK-2334

STAVE RIVER 4.4km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude
49°27'21.39"	-122°13'3.9"
Crossing Name	Side Creek
FSR #	8013
Branch #	1
Road Name	STAVE RIVER
User km	4.4
Current Load Rating (tonnes)	68
Structure Class	Major Culvert
Culvert Type	Elliptical
Culvert Material	Corrugated Steel
Opening Height (mm)	3330
Opening Width (mm)	5050
Inlet Cover (mm)	500
Outlet Cover (mm)	1000
Culvert Gradient %	2
Culvert Length (m)	18

Updated Data

Latitude	Longitude
49°27'21.18"	-122°13'4.37"
HD Diff. (m)	11.6
Accuracy (m)	5
3.7	

Inspection

Date of Inspection 2016-07-29 8:41:51 AM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Crossing consists of a multi plate pipe arch and a CSP culvert. 1 m deep scour hole below floor of culvert 1 outlet requires repair and the addition of riprap. Updated user km to 3.7 based on road km markings. Structure appears to be the same as CK-2349, based on photos from 2013 and 2014 inspections, and as stated in 2013 inspection. Edit CBR accordingly.

P.Eng Comments

Fill scour under mutliplate at the outlet. Present load rating of L75 or 68 tonnes to continue.



07/03/2017

P.Eng Seal

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Approach

Alignment Good

Bridge Ahead Signs
Missing ☒ 0 ☐ 1 ☐ 2 No signs required for culvert.

Brushing Required N

Delineator Missing
Left ☒ 0 ☐ 1 ☐ 2 No signs required for culvert.

Delineator Missing
Right ☒ 0 ☐ 1 ☐ 2 No signs required for culvert.

Fender Condition Unrated Not required for culvert.

Posted Load Rating No posting signs in place.

Road Surface Good

Abutment

Log/Timber Cribs

Tie Backs

Bin Wall

Concrete

Caps or Sills

Piles or Posts

Ballast Wall

Wing Wall N/A

Bracing

Hardware

Fill Good

Riprap Fair

Bearings

Corrosion Protection

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Culvert

Baffles	N/A	
Bolted Connections	Fair	Light minor corrosion of bolts on floor of culvert 1.
Coating	Fair	Light corrosion on floor of both culverts.
Coupled Connections	Good	Culvert 2 has coupler.
Embedment Materials	N/A	
Fill	Good	
Floor	Fair	Light minor corrosion on floor of both culverts.
Footing	Unrated	No footings on CSP and multi plate pipe arch culverts.
Head Walls	N/A	
Inlet	Fair	Light corrosion on top of inlets.
Outlet	Fair	Light corrosion on top of outlets.
Overall	Fair	
Rip Rap	Fair	
Roof	Good	
Sidewalls	Good	Some green staining.
Trash Rack	N/A	
Weirs/Backwater Structures	N/A	
Wing Walls	N/A	

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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 (m) 2.5 Ice ☐

Comments Dry channel. 1 m deep scour below floor of culvert 1 outlet.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	Medium	Fill scour hole below floor of culvert 1 outlet and place riprap.
2		
3		

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)

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Left Approach Facing Culvert



Roadway Over Culvert



Left Approach Facing Away From Culvert



Right Approach Facing Away From Culvert



Right Approach Facing Culvert



Looking Downstream



Looking Upstream



Upstream Elevation



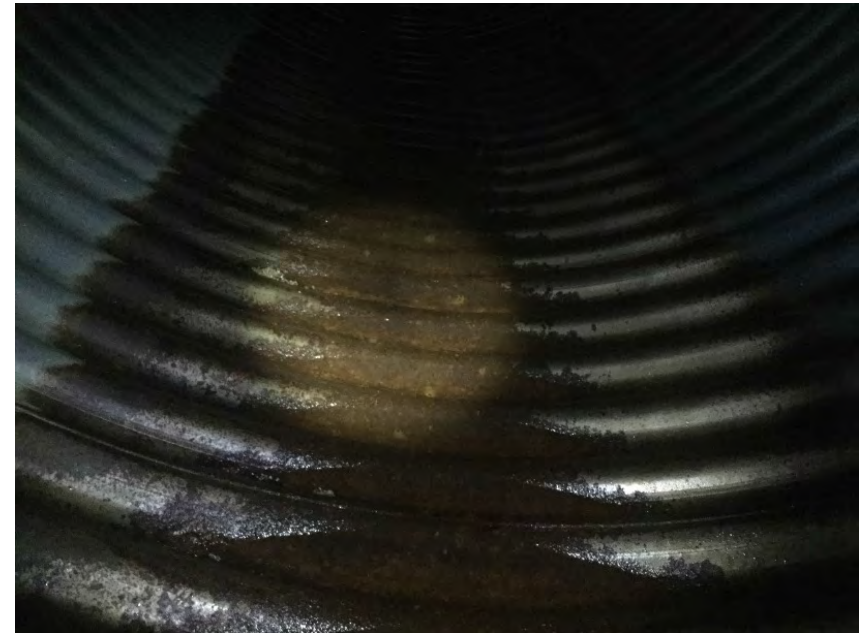
Inlet 1



Barrel of Culvert 2



Inlet 2



Floor of Culvert 2



Outlet Culvert 2



Downstream Elevation



Outlet 1



Scour Under Outlet 1

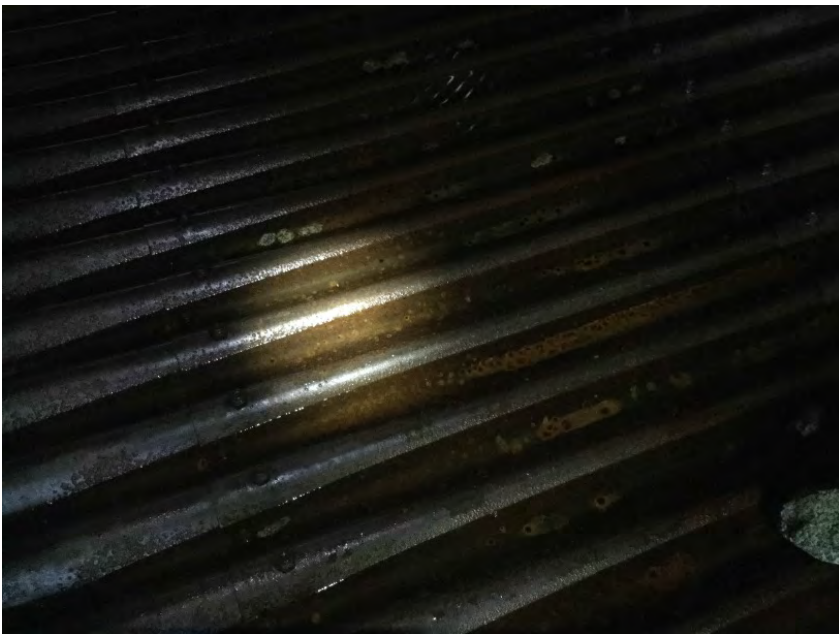
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Barrel of Culvert 1



Floor of Culvert 1