SQ-3165
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KAKILA CREEK 60.4km

2022 Inspection

CBR iPad Offline Ver 0.36

CBR Data

Latitude	Longitude
50°7'21.1"	-122°31'57.1"

Site Status	Active
Insp. Status	Inspect
Crossing Name	Kakila South Creek
FSR #	8407
Branch #	2
Road Name	KAKILA CREEK
User km	60.4
Previous Load Rating (tonnes)	62
Structure Class	Major Culvert
Culvert Type	Open Bottom
Culvert Material	Corrugated Steel
Opening Height (mm)	1800
Opening Width (mm)	4000
Inlet Cover (mm)	700
Outlet Cover (mm)	700
Culvert Gradient %	2
Culvert Length (m)	7.2

Updated Data

Latitude	Longitude
50°7'20.11"	-122°31'57.89"

HD Diff. (m)	34.5	Accuracy (m)	8

Inspection

Date of Inspection	2022-10-20 1:46:28 PM
Inspector Name	Gino Fournier

Recommended Next Inspection

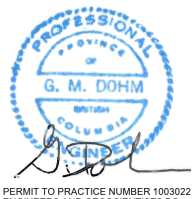
Inspection Company MoF

Inspector Comments

Structure should be replaced and not used by industrial activity until replaced due to poor construction and erosion.

P.Eng Comments

Load Rated by: MOF, Greg Dohm, PEng., Oct. 26, 2022
Load Rating: BCL625 or 63 tonnes
Next Inspection: 2023
Comments: structure footings are beginning to undermine outside of roadway. Further erosion to under roadway will result in closing of crossing. Plan to replace structure and adjacent wood box culvert.



PERMIT TO PRACTICE: 1003022

Approach

Alignment	Fair	
Bridge Ahead Signs Missing	○ 0 ○ 1 ● 2	Not needed. Real slow road
Brushing Required	Y	
Delineator Missing Left	● 0 ○ 1 ○ 2	
Delineator Missing Right	● 0 ○ 1 ○ 2	
Fender Condition	Unrated	None needed for culvert
Posted Load Rating	65	
Road Surface	Fair	

Abutment

Log/Timber Cribs		
Tie Backs		
Bin Wall		
Pier		
Concrete		
Caps or Sills		
Piles or Posts		
Ballast Wall		
Wing Wall	N/A	
Bracing		
Hardware		
Fill	Poor	Erosion of fill under footing and behind structure on outside edges.
Riprap	Fair	
Bearings		
Corrosion Protection		

Culvert

Baffles	N/A	
Bolted Connections	N/A	
Coating	Fair	
Coupled Connections	N/A	
Embedment Materials	N/A	
Fill	Poor	Erosion of fill under footing and behind structure on outside edges.
Floor	Unrated	Open bottom
Footing	Poor	Erosion on right side occurring.
Head Walls	Fair	Locblocks not placed deep enough and being eroded
Inlet	Poor	Too small. Structure should be replaced with bridge
Outlet	Poor	Erosion
Overall	Poor	Due to footing erosion and support to arch by old log culvert.
Rip Rap	Poor	Poor, due to placement on old log structure and vertically stacked.
Roof	Good	
Sidewalls	Poor	Erosion occurring at inlet and outlet
Trash Rack	N/A	
Weirs/Backwater Structures	N/A	
Wing Walls	N/A	

Log

Log Curbs N/A

Needle Beam N/A

Needle Lashing/ Shimming N/A

Stringer Number	Species	Peeled	Needle Beam to Crib (m) Diameter (mm)	Needle Diameter (mm) Rot Depth (mm)	Condition	Comment

Hazards

Estimated Present Water Level Depth (m)	.1	High Water	x	Debris	x
Estimated Present Water Level Width (m)	3	Aggradation	x	Scour	x
Estimated High Water Level Clearance	1	Ic			

Comments

Repairs and Monitoring

	Repair Item	Repair Description
1	Structure. Multiplate/culvert maintenance. m³. Priority:High	Replace structure with appropriately sized bridge, likely a slab would work.
2		
3		
4		
5		
6		
7		

	Item	Monitor Description	Frequency
1	Erosion of structure.		Anually
2			
3			

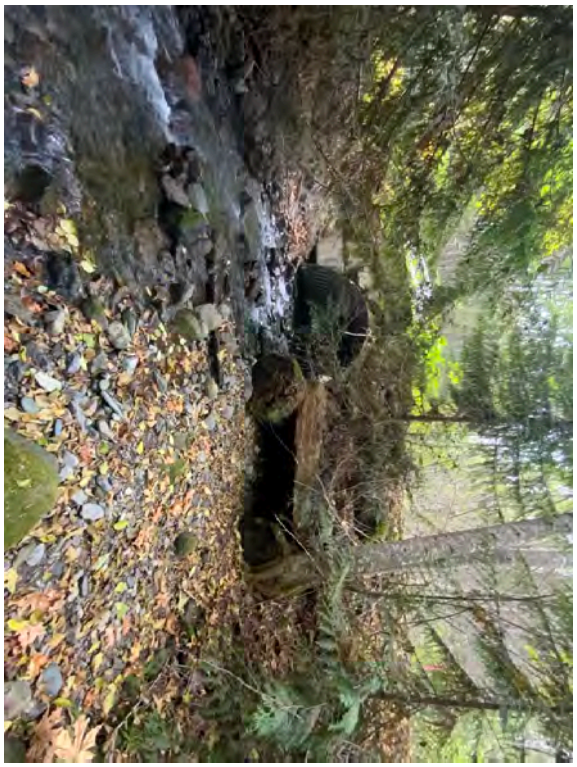
Inlet

Inlet of both old log culvert and arch. Arch footing supported by log sill and old culvert supporting riprap

Upstream Profile

Right upstream footing erosion under footing.

Looking at outlet.



Looking at outlet from downstream.