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Sep 10



BC Ministry of
Forests and Range

Corporate Bridge Register (CBR) Structure Inventory Data Form "CULVERTS"

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GENERAL	
*Structure #:	*Site #: CK-2120
*Type/Class: ☐ Major Culvert ☐ Woodbox/Log Culvert	Crossing Name:
*Forest District: CHILLIWACK	Management Area:
*Forest Service Road: STAVE LAKE	Kilometres: 17.5
*Project File ID#: 8013	*Br. 01
Built For: ☐ BC Timber Sales ☐ Other Commercial Users ☐ Road Use Permit Holder	☐ Operations Division ☐ Road Permit Holder
*Source: ☐ Inherited: Found Structure ☐ Inherited: Non-Status Road ☐ Inherited: Reallocation ☐ New Structure ☐ Replacement Structure	☐ Inherited: From Oil & Gas/ Other Ministry ☐ Inherited: Transfers from Other Ministries
Year Built:	Year Added to Inventory:
Current Load Rating GVW (tonnes): (PEng to enter / update this value on structure details screen in CBR)	Design Load Rating GVW (tonnes): (Typically obtained from design drawings)
Design Vehicle Configuration:	
☐ BCL625 ☐ CL625 ☐ L100 ☐ L120 ☐ L150 ☐ L165	
☐ L45 ☐ L60 ☐ L75 ☐ L90 ☐ Other	
*Primary User Client Number:	*Client Location Code:
Primary User Name:	
As Built Information on File? ☐ Yes ☐ No	
Installation Cost (\$):	Material Cost (\$):
Portable Structure? ☐ Yes ☐ No	
REPLACEMENT DETAILS	
Original Replacement (year):	Estimated Closure (year):
Light Vehicle Traffic Replacement (year):	*Full Log Haul Traffic Replacement (year): (PEng to review and evaluate inspector's estimate, and to enter /update this value on structure details screen in CBR).
Estimated Replacement Cost (\$):	
Replacement Cost Comments:	

* Denotes Mandatory Information for Corporate Bridge Register

CK-2420



BC Ministry of
Forests and Range

**Corporate Bridge Register (CBR)
Structure Inventory Data Form
"CULVERTS"**

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STRUCTURAL DETAILS		
*Culvert Number: <u>1</u> of 1	*Culvert Length (metres): <u>8.0</u>	Gradient: <u>-2 %</u>
*Culvert Type (not required for woodbox/log): ☒ Box ☐ Elliptical ☐ Open Bottom ☐ Round		*Culvert Material: ☐ Concrete ☐ Corrugated Steel ☐ Log ☐ Other ☐ Steel Non-Corrugated
Inlet Cover Depth (mm): <u>400</u>	Outlet Cover Depth (mm): <u>700</u>	
*Opening Height (mm): <u>0.4</u>	*Opening Width (mm): <u>3.2</u>	
Headwall Location: ☐ Both ☐ Inlet ☒ None ☐ Outlet		Open Bottom Substructure (not required for woodbox/log culvert): ☐ Cast in Place Concrete Footing ☐ Lock-Block Footing ☐ Piles ☐ Precast Concrete Footing ☐ Steel Footing
Comments:		



BC Ministry of Forests and Range
Routine Condition Culvert Inspection Form

GENERAL INFORMATION			
(enter either long/lat or UTM below— not both)			
*Site #: <u>CK-2420</u>	*Crossing Name:	*Type/Class: ☐ Major Culvert ☒ Woodbox/Log Culvert	*Project File ID# <u>B013</u>
*Structure #:			*Br. <u>01</u>
*FSR Name: <u>STAVE LAKE</u>	*Forest District: <u>CHILLIWACK</u>	*Kilometres: <u>17.5</u>	User km:
Longitude: (ddd / mm / ss.s) <u>49 32 08.4</u>		UTM Zone <u>OR</u>	UTM Easting
Latitude: (ddd / mm / ss.s) <u>122 16 51.3</u>			UTM Northing
LEFT/RIGHT APPROACHES (as seen facing downstream) E = excellent; G = good; F = fair; P = poor; N/A = not appl., UR = Unrated			
Item	Present Condition (circle or fill-in)	Comments (a comment is mandatory if condition "Poor" is selected)	
Alignment	E <u>(G)</u> F P UR		
Bridge Ahead Signs Missing	0 1 <u>(2)</u>		
Brushing Required	Yes <u>(NO)</u>		
Delineator Missing Left	0 1 <u>(2)</u>		
Delineator Missing Right	0 1 <u>(2)</u>		
Fender Condition	E G F P <u>(None)</u> UR		
Posted Load Rating	(tonnes) or <u>(None)</u>	<u>NOT POSTED</u>	
Road Surface	E <u>(G)</u> F P UR		
GENERAL CULVERT ITEMS			
Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)	
Baffles (N/A to woodbox/log culvert)	E G F P <u>(N/A)</u> UR		
Bolted Connections (N/A to woodbox/log culvert)	E G F P <u>(N/A)</u> UR		
Coupled Connections (N/A to woodbox/log culvert)	E G F P <u>(N/A)</u> UR		
Coating (N/A to woodbox/log culvert)	E G F P <u>(N/A)</u> UR		
Embedment Materials (N/A to woodbox/log culvert)	E G F P <u>(N/A)</u> UR		
Fill	E G <u>(F)</u> P UR	<u>?</u>	
Roof	E G F P UR	<u>?</u>	
Side Walls	E G F P UR	<u>?</u>	
Floor	E G F P <u>(N/A)</u> UR		
Head Walls	E G F P <u>(N/A)</u> UR		
Wing Walls	E G F P <u>(N/A)</u> UR		
Inlet	E G <u>(F P)</u> UR		
Outlet	E G <u>(F)</u> P UR		
Overall	E G <u>(F P)</u> UR	<u>ONE STRINGER LOGS COLLAPSED</u>	
Riprap	E G F P <u>(N/A)</u> UR		
Trash Rack	E G F P <u>(N/A)</u> UR		
Weirs/Beckwater Structures	E G F P <u>(N/A)</u> UR		
Footling (N/A to woodbox/log culvert)	E G F P <u>(N/A)</u> UR		
LOG CULVERTS ONLY			
Stringer #	Stringer Rot Depth (mm)	Diameter (mm)	Stringer Species
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

STRINGER CAN NOT BE INSPECTED
DUE TO LOW CLEAR. THERE IS ONE
STRINGER THAT HAS COLLAPSED A-P
ROUGHLY MID SPAN



BC Ministry of Forests and Range
Routine Condition Culvert Inspection Form

GENERAL INFORMATION									
*Site #: CK-2420		*Structure #:							
LOG CULVERTS ONLY (continued)									
Stringar #	Stringer Rot Depth (mm)	Diameter (mm)	Stringer Species	Comments (a comment is mandatory if condition "Poor" is selected)					
13									
14									
15									
16									
17									
18									
19									
20									
21									
Comments									
Stream CHANNEL									
*Est. Present Water Level Depth 0 (m)		*Est. Present Water Level Depth 0 (m)		*Est. Present Water Level Depth 20.0 (m)					
HAZARDS (circle yes or no for each item))									
High Water?	(Yes) No	Scour?	Yes No	Ice?	Yes No	Debris?	(Yes) No	Aggradation?	(Yes) No
Comments Since structure plugged partially, there is a potential hazard with this structure.									
REPAIRS: ☐ Recommended ☐ Not required (H = High, M = Medium, L = Low)									
Repair Item #	*Priority (circle)	*Estimate (\$)		*Repair Description					
1	H M L								
2	H M L								
3	H M L								
*Monitoring Status: ☐ Recommended ☐ Not required									
Monitor Item #	*Monitor Description								
1									
2									
PHOTO LOG									
Photo #	Description			Photo #			Description		
	LEFT TO RIGHT								
	RIGHT TO LEFT								
	INLET								
	OUTLET								
INSPECTOR TO COMPLETE THIS SECTION									
As-built Drawings Checked?		P Eng Inspection Required?		Yes No		Inspector's Estimate of Full Log Haul Traffic Replacement Date (year):			
Yes No						(P Eng to review and evaluate inspector's estimate, and to update "Full Log Haul Traffic Replacement (year)" on structure details screen in CBR)			
*Date of Inspection (yyyy/mm/dd)		*Inspection Company Name		*Inspector's Name (print)		Inspector's Signature			
2010-09-10									
Inspector's Comments									
One stringer has collapsed and is blocking flow. The channel is active & could plug & wash away.									
PROFESSIONAL ENGINEER (PENG) TO COMPLETE THIS SECTION									
Current Load Rating GVW (tonnes):		Date of Next Planned Inspection (yyyy/mm/dd)		NA					
(P Eng to update structure details screen in CBR as necessary)									
Reviewer Company Name		Reviewed by - P Eng's Name (print)		Date Reviewed (yyyy/mm/dd)					
MNRO		G. Dohm		2010/12/10					
P Eng Reviewer's Comments									
This is a WBC. It appears one stringer is broken. Debris restricting flow at outlet creating washout hazard. Recommend repairing asap. Remove from CBR.									

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