

ck2451



BC Ministry of
Forests and Range

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Bridge Register
Structure Inventory Data Form
CULVERTS

STRUCTURAL DETAILS

*Culvert Number: 1 of 1	*Culvert Length (metres): 12.0	Gradient: -5%
*Culvert Type: ☐ Box ☐ Elliptical ☐ Open Bottom ☒ Round		*Culvert Material: ☐ Concrete ☒ Corrugated Steel ☐ Log ☐ Other ☐ Steel Non-Corrugated)
*Inlet Cover Depth (mm): 60		*Outlet Cover Depth (mm): 70
*Opening Height (mm): 2400		*Opening Width (mm): 2400
*Headwall Location: ☒ Both ☐ Inlet ☒ None ☐ Outlet		Open Bottom Substructure: ☐ Cast in Place Concrete Footing ☐ Lock-Block Footing ☐ Piles ☒ Precast Concrete Footing ☐ Steel Footing
Comments:		



Routine Condition Culvert Inspection Form

GENERAL INFORMATION				(enter either long/lat or UTM - not both)		
Site #	ck 2451			Structure #		
FSR Name	Norrish Creek		User km	6.9	Project File ID	10326
Longitude: (ddd / mm / ss.s)	49 13 29.2		OR	UTM Zone	UTM Easting	UTM Northing
Latitude: (ddd / mm / ss.s)	117 08 36.4					
LEFT/RIGHT APPROACHES (as seen facing downstream) E = excellent; G = good; F = fair; P = poor; N/A = not appl.						
Item	Present Condition (circle or fill-in)		Comments (a comment is mandatory if condition "Poor" is selected)			
Alignment	E G <u>(F)</u> P					
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 <u>P (None)</u>		Needs Fenders D/S - steep banks			
Posted Load Rating (tonnes)						
Road Surface	E <u>(G)</u> F P					
GENERAL CULVERT ITEMS						
Item	Present Condition (circle)		Comments (a comment is mandatory if condition "Poor" is selected)			
Baffles	E G F P <u>(N/A)</u>					
Bolted Connections	E G F P <u>(N/A)</u>					
Coupled Connections	E G F P <u>(N/A)</u>					
Coating	E G <u>(F)</u> P <u>(N/A)</u>					
Embedment Materials	E G F P <u>(N/A)</u>					
Fill	E G F <u>(P)</u>		Not enough fill on top of culvert			
Roof	E G <u>(F)</u> P		slight damage @ inlet during install			
Side Walls	E G <u>(F)</u> P					
Floor	E G <u>(F)</u> P <u>(N/A)</u>		slightly rusted			
Head Walls	E G F P <u>(N/A)</u>					
Wing Walls	E G F P <u>(N/A)</u>					
Inlet	E G <u>(F)</u> P					
Outlet	E G F <u>(P)</u>		Scummy, not enough riprap			
Overall	E G <u>(F)</u> P					
Riprap	E G F <u>(P)</u> <u>(N/A)</u>		Poor @ outlet, more needed to prevent scour			
Trash Rack	E G F P <u>(N/A)</u>					
Weirs/Backwater Structures	E G F P <u>(N/A)</u>					
LOG CULVERTS ONLY						
Stringer #	Ave. rot depth (mm)	Diameter (mm)	Wood Species	Comments (a comment is mandatory if condition "Poor" is selected)		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						



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Fender Condition	E G F <u>P (None)</u>		Needs Fenders D/S - steep banks			
Posted Load Rating (tonnes)						
Road Surface	E <u>(G)</u> F P					
GENERAL CULVERT ITEMS						
Item	Present Condition (circle)		Comments (a comment is mandatory if condition "Poor" is selected)			
Baffles	E G F P <u>(N/A)</u>					
Bolted Connections	E G F P <u>(N/A)</u>					
Coupled Connections	E G F P <u>(N/A)</u>					
Coating	E G <u>(F)</u> P <u>(N/A)</u>					
Embedment Materials	E G F P <u>(N/A)</u>					
Fill	E G F <u>(P)</u>		Not enough fill on top of culvert			
Roof	E G <u>(F)</u> P		slight damage @ inlet during install			
Side Walls	E G <u>(F)</u> P					
Floor	E G <u>(F)</u> P <u>(N/A)</u>		slightly rusted			
Head Walls	E G F P <u>(N/A)</u>					
Wing Walls	E G F P <u>(N/A)</u>					
Inlet	E G <u>(F)</u> P					
Outlet	E G F <u>(P)</u>		Scummy, not enough riprap			
Overall	E G <u>(F)</u> P					
Riprap	E G F <u>(P)</u> <u>(N/A)</u>		Poor @ outlet, more needed to prevent scour			
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13						
14						



Routine Condition Culvert Inspection Form

GENERAL INFORMATION				
Site # <u>CH2451</u>			Structure #	
LOG CULVERTS ONLY (continued)				
Stringer #	Ave. rot depth (mm)	Diameter (mm)	Wood Species	Comments (a comment is mandatory if condition "Poor" is selected)
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
Comments				
CHANNEL				
Est. Present Water Level Depth (m) <u>0.1</u>		Est. Present Water Level Width (m) <u>1.2</u>		Est. High Water Level Clearance (m) <u>0.60</u>
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 <u>Existing debris in culvert. Not critical.</u>				
REPAIRS (H = High, M = Medium, L = Low)				
#	Priority (circle)	Estimate (\$)	Description	
1	H M ☒ L		Fill on top of culvert, especially V/S.	
2	H ☒ M ☐ L		Fenders on d/s wood d/s camp	
3	H M L			
ITEMS TO MONITOR				
#	Description			
1	<u>Scour @ outlet</u>			
2				
PHOTO LOG				
Photo #	Description	Photo #	Description	
	<u>Inlet</u>		<u>V/S</u>	
	<u>Damaged Roof from install</u>		<u>N/S</u>	
	<u>Camp for wood</u>		<u>5.6m @ outlet</u>	
	<u>Wind to Camp</u>			
INSPECTOR TO COMPLETE THIS SECTION				
As-built Drawings Checked? Yes ☐ No ☒		P Eng Inspection Required? Yes ☐ No ☒	Date of Inspection (yyyy/mm/dd) <u>2009-10-07</u>	
Inspection Company Name <u>Forst Engineering & Geospatial Ltd.</u>		Inspector's Name (print) <u>Ali Sadeghi</u>	Inspector's Signature 	
Comments				
PROFESSIONAL ENGINEER (PEng) TO COMPLETE THIS SECTION				
Current Load Rating GVW (tonnes):		Date of Next Inspection		
Reviewer Company Name <u>MFR</u>	Reviewed by - PEng's Name (print) <u>L. Stevanovic</u>	Reviewed by - PEng's Signature Digitally signed by L. Stevanovic Date: 2010.02.16 17:07:37 -08'00'	Date Reviewed (yyyy/mm/dd)	
Comments <u>5t load, failed due to insufficient cover, should be replaced</u>				



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High Water?	Yes ☐ No ☒	Scour?	Yes ☒ No ☐	Ice? Yes ☐ No ☒
Debris?	Yes ☒ No ☐	Aggradation?	Yes ☐ No ☒	
Comments <u>Existing debris in culvert. Not critical.</u>				
REPAIRS (H = High, M = Medium, L = Low)				
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ITEMS TO MONITOR				
#	Description			
1	<u>Scour @ outlet</u>			
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PHOTO LOG				
Photo #	Description	Photo #	Description	
	<u>Inlet</u>		<u>V/S</u>	
	<u>Damaged Roof from install</u>		<u>D/S</u>	
	<u>Camp for wood</u>		<u>5.6m @ outlet</u>	
	<u>Wind to Camp</u>			
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Comments				
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Current Load Rating GVW (tonnes):		Date of Next Inspection		
Reviewer Company Name	Reviewed by - PEng's Name (print)	Reviewed by - PEng's Signature	Date Reviewed (yyyy/mm/dd)	
Comments				