

Bridge Culvert Inspection			
Bridge File Number	72299 -1 Bridge Culvert	Form Type	CUL1
Year Built	1982	Lot No.	2
Bridge or Town Name	WOKING	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO KAKUT CK, 8.10.58.11.3.8, WATERCRS-ST	Inspector Class	BR CLS B
Located On	677:04 C1 12.247	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Nov-2011
Legal Land Location	SE SEC 26 TWP 76 RGE 4 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:30:16, 55:36:25	Data Entry Date	14-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	20-Nov-2011
Clear Roadway/Skew	11 / -30 deg. (LHF)	Dept. Reviewer Name	Steve Pasquan
AADT/Year	110 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification	RCU-211-110	Follow-Up By	
Detour Length (km)	10		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1800	MP	46	68X13	3.5,2.8,2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	South-R/W	Gas	20m e. of pipe across road				
Power	North r/w, 1 wire, 20mE	Municipal					
Others		Problem (Y/N)	No				
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach 50m East
Vertical Alignment		8	8	
Roadway Width (m)	11.000			
Embankment		8	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	5	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	4	Erosion around bevel
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	4	Erosion around bevel
Beavers (Y/N)	Yes			Dam 5m U/S.
Upstream End General Rating		7	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)				
Barrel Last Accessible Date	08-Nov-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	4	estimated
Measured Rise (mm)	1660			Sagging, unable to measure rise due to mud/ice on floor.
Measured At Ring No.				
Sag (mm)	140			
Percent Sag	8			
Sidewall		4	4	@ C.L.
Measured Span (mm)	1916			6.5% deflection inward.
Measured At Ring No.				
Deflection (mm)	116			
Percent Deflection	7			
Floor		5	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	5	
Separation (mm)	70			
Longitudinal Seams		5	5	riveted seams
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	4	pitting rust 4-8 o'clock
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)				
Fish Passage Adequacy		7	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	6	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	4	Channel eroding near bevel.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	4	Channel eroding near bevel.
Beavers (Y/N)	No			
Downstream End General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	4	West end of beaverdam removed, realigning the channel to enter the culvert from the West.
Bank Stability		8	6	
HWM (m below Top of Culvert)				HWM NOT VISIBLE.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			Beaverdam 5m u/s of culvert.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Remove beaverdam to realign channel					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	62.7/57.2	Est. Repl. Yr	2027	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	08-Feb-2015		Previous Inspection Date	29-Aug-2008			
Inspection Cycle (Default) (months)	39						
Comment							