

Bridge Culvert Inspection			
Bridge File Number	71421 -1 Bridge Culvert	Form Type	CUL1
Year Built	1975	Lot No.	4
Bridge or Town Name	TRIANGLE	Inspector Name	Brian Pientsch
Located Over	2ND ORDER TRIBUTARY TO SOUTH HEART RIVER, 8.11.80.54.8.1, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	Clem Guenette
Located On	2:54 C1 18.489	Assistant Class	BR CLS B
Water Body Cl./Year		Inspection Date	12-Dec-2012
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	NE SEC 13 TWP 76 RGE 19 W5M	Data Entry Date	12-Jan-2013
Longitude, Latitude	-116:48:28, 55:35:10	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	09-Jan-2013
Contract Main. Area	CMA06	Dept. Reviewer Name	David Morrison
Clear Roadway/Skew	9.7 / -30 deg. (LHF)	Dept. Review Date	20-Mar-2013
AADT/Year	900 / 2011 (A)	Follow-Up By	
Road Classification	RAU-209-110		
Detour Length (km)	80		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	4370	2870	RPP	28.7	152X51	4.2	PIPE ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	10 m west	Gas	North 20 m	
Power		Municipal		
Others	Railway 15m west	Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm access, NE corner 30m W.
Vertical Alignment		9	9	
Roadway Width (m)	9.700			
Embankment		N	N	Scour NW/SW ditch. 2m x 0.8m x 1m hole.-01-May-2009 Snow covered.
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

		Last	Now	Explanation of Condition
Culvert Component				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		N	N	(Wide, longitudinal cracks, pieces separating 500mm wide 1.8m long.-01-May-2009) Under snow
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		7	7	Silting in bevel South side.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Riprap has washed into pipe.
(Type : RIP RAP)				Snow covered.
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried fwd.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4370, Rise (mm): 2870, Type: RPP)				
Barrel Last Accessible Date	12-Dec-2012			Ice to crown - 2394mm
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Ice on floor\estimated
Measured Rise (mm)	2781			
Measured At Ring No.	4			
Sag (mm)	86			
Percent Sag	3			
Sidewall		8	8	
Measured Span (mm)	4379			
Measured At Ring No.	4			
Deflection (mm)	9			
Percent Deflection	0			
Floor		7	N	Ice on floor
Bulge (mm)	0			
Measured At Ring No.	4			
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Two bolts missing, 3rd seam from u/s. 2 and 4:00.
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Scaling & pitting. Alkaline stains through roof seams.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4370, Rise (mm): 2870, Type: RPP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	N	snow covered
Beavers (Y/N)	No			
Downstream End General Rating		5	5	Gen rating carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Culvert)	1.5			Grass in brush.-01-May-2009
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Couldn't tell due to snow cover.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	71.6/71.6	Est. Repl. Yr	2024	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor cracking in concrete collar.-01-May-2009		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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	12-Sep-2014		Previous Inspection Date	25-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							