

Bridge Culvert Inspection			
Bridge File Number	00152 -1 Bridge Culvert	Form Type	CUL1
Year Built	1989	Lot No.	4
Bridge or Town Name	HIGH RIVER	Inspector Name	Jason Rusu
Located Over	TONGUE CREEK, 2.13.27.5, WATERCRS-ST	Inspector Class	BR CLS A
Located On	2A:04 C1 7.189	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-Aug-2012
Legal Land Location	SW SEC 19 TWP 19 RGE 28 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-113:52:56, 50:37:08	Data Entry Date	05-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA27	Review Date	19-Aug-2012
Clear Roadway/Skew	13.4 /	Dept. Reviewer Name	Tim Davies
AADT/Year	8,550 / 2011 (A)	Dept. Review Date	06-Sep-2012
Road Classification	RAU-213.4-120	Follow-Up By	
Detour Length (km)	6		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	10462	4421	RPA	25	152X51	5.0,4.0,4.0	ARCH
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	East ditch.	Gas	100 m East.				
Power	3 wire East r/w - 30 m.	Municipal					
Others	Fibre optics @ West ditch.	Problem (Y/N)	No				
Remarks	Trans Line 200m South.						

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	
Vertical Alignment		8	8	
Roadway Width (m)	13.400			
Embankment		N	7	
Sideslope ( __:1)	4.0			
(Height of Cover(m) : 1.1)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>8</b>	<b>8</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	7	Conduit through headwall.
Collar		N	6	3mm wide cracks @ both ends @ NW & SW.
Wingwalls		N	7	
(Shape : )				
Cutoff Wall		N	N	Buried.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>N</b>	<b>6</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 10462, Rise (mm): 4421, Type: RPA)				
Barrel Last Accessible Date	11-Aug-2012			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		6	6	Has good shape. (From previous insp) 05-feb-2007
Measured Rise (mm)	4220			
Measured At Ring No.	3			Est.
Sag (mm)	201			
Percent Sag	4			
Sidewall		7	7	
Measured Span (mm)				
Measured At Ring No.				Est.
Deflection (mm)				
Percent Deflection	4			
Floor		N	N	Silt and water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	6	
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		N	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 10462, Rise (mm): 4421, Type: RPA)				
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			
<b>Barrel General Rating</b>		<b>6</b>	<b>6</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		N	8	
Collar		N	6	3 mm cracks @ ends of collar @ bottom @ NE & SE.
Wingwalls		N	8	
(Shape : )				
Cutoff Wall		N	N	Buried.
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>N</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 degree bend u/s and d/s.
Bank Stability		N	7	
HWM (m below Top of Culvert)	0.7			(Straw caught in roof seam) 05-feb-2007
Drift (Y/N)	No			None visible.
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>66.3/68.5</b>	Est. Repl. Yr	2038	Maint. Req. (Y/N)	No
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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	11-May-2014		Previous Inspection Date	10-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							