

Bridge Culvert Inspection									
Bridge File Number	81064 -1 Bridge Culvert				Form Type	CUL1			
Year Built	1987				Lot No.	3			
Bridge or Town Name	TURNER VALLE				Inspector Name	Jon Davies			
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS B			
Located On	546:02 C1 6.025				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	08-Feb-2013			
Legal Land Location	SW SEC 32 TWP 19 RGE 3 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:23:17, 50:38:51				Data Entry Date	09-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA27				Review Date	21-Feb-2013			
Clear Roadway/Skew	9 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	770 / 2011 (A)				Dept. Review Date	13-Mar-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	999								
Bridge Culvert Information									
Number of Culverts	1								
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	-	2400	MP	24	125X26	2.8	ROUND	
Special Features	CONC FLOOR								
Special Features Comment									
Posting Information									
Required Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)									
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Lane	SB	On Bridge (m)	In Advance (Y/N)	
Remarks	Not required.								
Utilities (Located at)									
Utility Attachments									
Telephone	South Ditch.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road / Embankment									
		Last	Now	Explanation of Condition					
Horizontal Alignment		5	5	On curve.					
Vertical Alignment		7	7	Field entrance 15m East.					
Roadway Width (m)	9.200								
Embankment		7	7						
Sideslope (__:1)	3.5								
(Height of Cover(m) : 1.1)									
Guardrail (Y/N)	Yes								
Approach Road / Embankment General Rating		5	5						
Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction		S		North.					
End Treatment (Concrete, Steel, Others, None)		NONE							
Headwall		X	X						

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		X	5	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	5	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date	08-Feb-2013			
Special Features				
Special Feature			N	Ice covered.
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		8	7	Estimate.
Measured Rise (mm)	2369			
Measured At Ring No.	2			
Sag (mm)	32			
Percent Sag	1			
Sidewall		9	8	
Measured Span (mm)	2432			
Measured At Ring No.	2			
Deflection (mm)	32			
Percent Deflection	1			
Floor		N	N	Concrete floor - covered with dirt and ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	7	
Separation (mm)	58			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP)				
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	7	Handles ditch drainage.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		South.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		X	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	X	
Roadway Surface		6	5	
(Type : SOIL)				
Icing (Y/N)	Yes			Due to poor drainage.
Traffic Safety Features		X	X	
Type	NONE			

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		4	4	Poor drainage due to grade at U/S and D/S.
Structure In Use (Y/N)	Yes			Cattle action at U/S observed.
Grade Separation General Rating		4	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	2013	Re-grade U/S and D/S area and place compact approx. 8m ³ of granular fill on and around 600mm CSP.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/77.8	Sufficiency Rating (Last/Now) (%)	82.4/70.7	Est. Repl. Yr	2028	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	08-May-2016		Previous Inspection Date	31-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							