

Bridge Culvert Inspection			
Bridge File Number	09369 -1 Bridge Culvert	Form Type	CUL1
Year Built	1991	Lot No.	4
Bridge or Town Name	ATHABASCA	Inspector Name	Wade Nanninga
Located Over	TRIBUTARY TO ATHABASCA RIVER, 8.11.65, WATERCRS-ST	Inspector Class	BR CLS B
Located On	813:02 C1 8.899	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	06-Jan-2011
Legal Land Location	NW SEC 9 TWP 67 RGE 22 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:18:38, 54:47:23	Data Entry Date	02-Feb-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA10	Review Date	12-Jan-2011
Clear Roadway/Skew	8.2 / -41 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	990 / 2009 (A)	Dept. Review Date	02-Feb-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3050	SP	45.7	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East r/w.	Gas	60 m north (ICG).
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	BF tag installed on top of West headwall.		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm entrance to South, intersection to North.
Vertical Alignment		8	8	
Roadway Width (m)	8.200			
Embankment		8	8	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 0.9)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	750			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 250)		6	6	Rock settled 250mm along South side of bevel.
Scour/Erosion		8	6	Well vegetated, snowcovered.
Beavers (Y/N)	No			
Upstream End General Rating		8	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3050, Type: SP)				
Barrel Last Accessible Date	06-Jan-2011			20m from ice to roof. Shape appears good.
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		8	7	
Measured Rise (mm)				est
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	2			
Sidewall		8	7	
Measured Span (mm)	3100			
Measured At Ring No.	4			
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	1m of ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	
Separation (mm)	0			
Longitudinal Seams		N	7	
Total No. of Cracked Rings	0			2N.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	
Corrosion By Soil (Y/N)	No			Superficial.
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3050, Type: SP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			0.5m
Fish Passage Adequacy		X	7	
Baffle		N	N	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	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		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	750			
Scour Protection		6	5	Settled approx 0.5m beside bevel.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		8	5	
Beavers (Y/N)	No			
Downstream End General Rating		8	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp bend just U/S of pipe.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
(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) (%)	55.6/77.8	Sufficiency Rating (Last/Now) (%)	69.8/75.0	Est. Repl. Yr	2039	Maint. Req'd. (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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	06-Apr-2014		Previous Inspection Date	08-Aug-2007			
Inspection Cycle (Default) (months)	39						
Comment							