

Bridge Culvert Inspection			
Bridge File Number	78965 -1 Bridge Culvert	Form Type	CUL1
Year Built	1979	Lot No.	4
Bridge or Town Name	CANMORE	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO POCATERRA CK, 2.13.56.20.3, WATERCRS-ST	Inspector Class	BR CLS A
Located On	40:10 C1 42.377	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Jun-2011
Legal Land Location	SE SEC 27 TWP 19 RGE 8 W5M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-115:01:20, 50:38:02	Data Entry Date	13-Jul-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA28	Review Date	28-Jun-2011
Clear Roadway/Skew	11 / -25 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	440 / 2010 (A)	Dept. Review Date	15-Jul-2011
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	50		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1448	1600	SPE	46.9	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks	None visible.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	5	5	Curves at both ends.
Vertical Alignment	6	6	Located just south of Elbow Pass
Roadway Width (m)	11.000		
Embankment	7	7	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 2.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	5	5	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	6	500mm deep rock on bevel
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	6	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1448, Rise (mm): 1600, Type: SPE)				
Barrel Last Accessible Date	24-Jun-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	1580			
Measured At Ring No.	6			
Sag (mm)	20			
Percent Sag	1			
Sidewall		7	7	Minor damage to S wall. WATER LEAKING THRU CIRCUM. SEAMS @ R # 3,4,5 @ 8:00. LOOKING D/S, APPEARS TO BE A SPRING at the SIDEWALL. DEFLECTING INWARD
Measured Span (mm)	1420			
Measured At Ring No.	5			
Deflection (mm)	28			
Percent Deflection	1			
Floor		6	6	Minor
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		5	5	Sloppy holes and 1 10mm crack at R9 at north sidewall- marked.
Separation (mm)	0			
Longitudinal Seams		7	7	
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)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Corrosion with some pitting along haunch at waterline.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): 1448, Rise (mm): 1600, Type: SPE)				
Fish Passage Adequacy		4	4	500mm HIGH WATERFALL OFF D/S END,
Baffle		4	4	6 detached baffles, 4 in pipe, and 2 d/s end SB.
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)		No		
Siltting (Y/N)		No		
Drift (Y/N)		No		
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)		0		
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)		500		
Scour Protection		5	5	500mm DROP OFF @ BEVEL END. 1 m DIA x 400mm ROCK LINED SCOUR. HOLE OFF BEVEL
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	
Beavers (Y/N)		No		
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		5	5	Vertical banks @ d/s end
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	63.5/62.4	Est. Repl. Yr	2028	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	24-Mar-2013		Previous Inspection Date	05-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							