Bridge Culvert Inspection													
Bridge File Num	nber	er 78969 -1 Bridge Culvert						уре	CULM	CULM			
Year Built		1980					Lot No.		4				
Bridge or Town	Name	me CANMORE					Inspect	or Name	Garry Roberts				
Located Over STORM CREEK, 2.13				.27.42, WATERCRS-			Inspect	spector Class BR CLS A					
Located On 40:10 C1 29.861								nt Name					
Water Body CI./Year							Incroct	ion Doto	24 Jun 2011	24 Jun 2011			
Navigabil. Cl./Y	ear						Data Er	otry By	24-Juli-2011				
Legal Land Location NE SEC 19 TWP 18 RGE 7 W5				GE 7 W5N	1		Data Er	ntry Date	13- Jul-2011				
Longitude, Latit	5:57, 50:32:24					Reviewer Name Tom Carev							
Road Authority Alberta			a Transportation (AIT)					Review Date 28-Jun-2011					
Contract Main. Area CMA28			8					Dept. Reviewer Name Tim Davies					
Clear Roadway/Skew 11 / 18 c			deg. (RHF)				Dept. R	eview Date	15-Jul-2011				
AADT/Year		440 / 20	010 (A)				Follow-	Up Bv					
Road Classifica	ation	RAU-20	09-110					-1 5					
Detour Length (	(km)	50											
Bridge Culvert	Inform	ation											
Number of Culv	verts		2							1			
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		4853	3125		RPE		35.4	152X51	5.0,4.0	ELLIPSE		
2	MAIN		1660	1290		FP		35.4		ARCH			
Special Feature	es		INSTRUMENT	DEV									
Special Feature	es Comn	nent											
					4;	lition /l	opatod	ot)					
Litility Attachme	onte				Ul	nues (L	ocaleu	alj					
Telephone							Gas						
Power								al					
Others							Problen	n (Y/N)					
Remarks	None visible.												
Approach Road / Embankment													
						Now	Explan	ation of Cond	lition				
Horizontal Align	nment				6	6	Curves both ends. Grade to south.						
Vertical Alignme	ent				6	6							
Roadway Width	n (m)		11.000										
Embankment					7	7							
Sideslope (	_:1)		5.0	5.0									
(Height of Cov	ver(m):	<b>2</b> )											
Guardrail (Y/N)			Yes										
Approach Roa	d / Emb	ankme	nt General Rat	ing	6	6							
						Upstre	am End						
Culvert Component Last Now Explanation of Condition													
(Pipe # : 1, Span Type: Primary Span)													
Direction													
End Treatment (Concrete, Steel, CONCRETE													
Headwall					6	6	Wide cracks @ top of bevel.						
Collar				7	7								
Wingwalls			х	Х									
(Shape : )	(Shape : )												

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall			N	Buried.
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	i): 4853	3, Rise (mm): 3125, Type: RPE)
Barrel Last Accessible Date	24-Jun-2011			
Special Features				
Special Feature			X	-
(Type : INSTRUMENT DEV)				-
Special Feature				-
(Туре : )				
Roof		5	5	Roof seam is down.
Measured Rise (mm)				Roof has arch still. Cusping seen @ roof. Appears shape the same
Measured At Ring No.				as previous insp. 100mm from pin to roof-same as last 5 insp
Sag (mm)	300			Estimate
Percent Sag	9			
Sidewall	1	6	6	_
Measured Span (mm)	5090			-
Measured At Ring No.	3			-
Deflection (mm)	237			-
Percent Deflection	4			
Floor	1	N	N	ROCK COVERED, average 600mm deep.
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams	1	6	6	-
Separation (mm)	0			
Longitudinal Seams		6	6	
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		6	6	Superficial rust in haunch area.
Corrosion By Soil (Y/N)	No			Water dripping from roof seams @ u/s end.
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

78969 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 4853	, Rise (mm): 3125, Type: RPE)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N) No								
Fish Passage Adequacy			7					
Baffle		N	N	Rock covered if present.				
(Type : )								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		5	5					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Direction		W						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall			X					
Collar		Х	X					
Wingwalls		X	X					
(Shape : )		,						
Cutoff Wall		Х	X					
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	400		1					
Scour Protection		7	7					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 800)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Downstream End General Ration	ng	7	7					
			Upstrea	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		E						
End Treatment (Concrete, Steel, Others, None)	NONE		1					
Headwall		Х	Х					
Collar		Х	X					
Wingwalls		X	X					
(Shape : )								
Cutoff Wall			X					

Alberta Transportation

	Upstre			eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		Х	X	-					
Heaving (mm)	0								
Invert Above/Below Stream Bed BELOW									
Above/Below (mm)	800								
Scour Protection		8	8						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 500)									
Scour/Erosion			8						
Beavers (Y/N)	NO								
Upstream End General Rating		8	8						
		Bri	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (I	mm): 1(	660, Rise (mm): 1290, Type: FP)					
Barrel Last Accessible Date	22-Jan-2004			Not accessible - silted.					
Special Festures									
Special Feature									
(Type .)									
(Type:)									
Root		N	N						
Measured Rise (mm)				-					
Measured At Ring No.				-					
Sag (mm)				-					
Percent Sag									
Sidewall		N	N						
Measured Span (mm)				-					
Measured At Ring No.				-					
Deflection (mm)				-					
Percent Deflection			-						
Floor		N	N						
Bulge (mm)				-					
Measured At Ring No.				-					
Abrasion (Y/N)									
Circumferential Seams		N	N						
Separation (mm)	0								
Longitudinal Seams	I	Х	X	-					
Total No. of Cracked Rings	0			-					
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel 0 Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating			N						
Corrosion By Soil (Y/N)				1					
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 10	660, Rise (mm): 1290, Type: FP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		5	5	Slotted steel plate at D/S						
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		5	5	600mm from roof at U/S, 700mm at D/S						
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating			N							
		D	ownsti	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		W								
End Treatment (Concrete, Steel, Others, None)	NONE									
Headwall		Х	Х							
Collar			Х							
Wingwalls		Х	Х							
(Shape : )										
Cutoff Wall		X	X							
Bevel End		Х	Х	Slotted steel plate at D/S						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	800									
Scour Protection		8	8							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 800)										
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	8	8							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)		1								
Alignment		7	7							
Bank Stability		7	7							
HWM (m below Top of Culvert)				HWM not visible						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	or Comments		Department Cor	nments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP	)											
REMOVE DRIFT ACCUMULA	TION											
INSTALL CONCRETE/STEEL	LINING											
INSTALL STRUTS											_	
INSTALL CONCRETE COLLA	R/CUTOFF											
REPAIR SEAMS											_	
OTHER ACTION											_	
OTHER ACTION												
OTHER ACTION											_	
OTHER ACTION												
Structural Condition Rating (%)	Last/Now)	55.6/55.	6	Sufficiency Rating (Last/Now) (%)		58.0/56.4	Est. Repl. Yr	2025	Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection	ncreased to 5 a (GR Oct.5/09)	as no cha	inge in roo	of monitoring device for last	five	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 Ga		Garry Roberts				Previous Assistant's Name						
Next Inspection Date 24		r-2013			Previous	vious Inspection Date 05-Oct-2009						
Inspection Cycle (Default) (months) 2												
Comment												