Bridge Culvert Inspection															
Bridge File Number 13634		13634 -1	634 -1 Bridge Culvert					уре		CUL1					
Year Built 1924							Lot No.			3					
Bridge or Town Name COLEMA			IAN				Inspector Name			Garry Roberts					
Located Over MCG		MCGILL	ICGILLIVRAY CREEK, 2.12.37.16,				Inspector Class			BR CLS A					
		WATER	RCRS-SI				Assistant Name								
Located On 3:02 C1 1			13.259				Assistant Class								
Water Body CI./Year							Inspection Date		28-Nov-2011						
Navigabil. Cl./Ye	ear						Data Entry By			Erin Roberts					
Legal Land Location NE SEC		7 TWP 8 RGE		Data Entry Date			05-Jan-2012								
Longitude, Latitude -114:31		-114:31:	1:15, 49:38:06				Reviewer Name			Tom Carey					
Road Authority	^	Alberta	I ransportation	(AIT)			Review Date			08-Dec-2011					
Contract Main. Area CMA26			3					Dept. Reviewer Name		Tim Davies					
Clear Roadway/	Skew	13.5/					Dept. Review Date		10-Jan-2012						
AAD1/Year		6,470/2	2010 (A)				Follow-Up By								
Road Classificat		RAU-21	3-120				-								
Detour Length (km) 3															
Bridge Culvert Information															
Pipe #	Barrol		Pipe (Dia)			Length		Corr Profile	PI /Slab	Shape			
	Darrei	l l	Span	Rise (UI	Dia.)	туре		Lengin		Con. Fiolile	Thickness	Shape			
1	MAIN	3	3660	3200		AP		68.3				ARCH			
Special Feature	s														
Special Feature	s Comn	nent													
					Uti	lities (L	ocated	at)							
Utility Attachme		0. NUA/					0		00 1	A/+					
Telephone	At SW & NW						Gas	1	20 m	1 West					
Power	2 wire 6 m South of South road						IVIUNICI								
Others							Problei	n (Y/N)	INO						
Remarks				٨	nnroad	h Poar	l/Emb	ankmont							
					Last	Now	Explanation of Condition								
Horizontal Alignment				4	5	Curves and grade to West within town.									
Vertical Alignment					4	5	13.5m hwy & 7.0m approach road. Posted for 60km/hr.					r.			
Roadway Width (m)			20.500	20.500											
Embankment					4	4	Erosio	n @ U/S t	to fence	eline. This is bri	nging material i	nto u/s end of			
Sideslope (:1)			1.0		Also erosion over D/S end up to guardrail on local road. Metal										
(Height of Cover(m) : 11)					1		retaining wall at South side is corroding.								
Guardrail (Y/N)			Yes		Broken post on local road rail.										
Approach Road	d / Fmb	ankmen	t General Rat	ina	4	5									
, pp. each riou	a , 1 1110	amanon			-										
						Upstre	am End								
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	tion					
Direction			N		North										
End Treatment (Concrete, Steel, CONCRETE Others, None)															
Headwall			5	5	Sealed cracks										
Collar			X	Х											
Wingwalls			6	6											
(Shape : FLARE)							1								
Cutoff Wall					N	N									
							1								

Alberta Transportation

		1	Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		Х	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	400								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating			5						
		Brid	dae Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1. Primary Span. Loca	tion Code: MAIN. Spa	n (mm): 3660	D. Rise (mm): 3200. Type: AP)					
Barrel Last Accessible Date	28-Nov-2011		,						
Darrei Last Accessible Date	20-1100-2011								
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)			-						
Roof		N	6	Most seams are natched					
Measured Rise (mm)	3200		U						
Measured At Bing No	1								
Seg (mm)	0								
Sag (mm)	0			-					
Percent Sag									
Sidewall	1	N	6	Numerous patches on sidewall & roof.					
Measured Span (mm)	3660			Newer pony wall poured 0.6m high along both sides.					
Measured At Ring No.	1			-					
Deflection (mm)	0			-					
Percent Deflection			_						
Floor		N	5	The floor is heavily scaled but still functional.					
Bulge (mm)	0			1st seam @ d/s end. floor abrasion verv heavv.					
Measured At Ring No.				600mmx600mmx100mm deep rebar exposed. Appears that floor has					
Abrasion (Y/N)	Yes			been patched or covered with concrete before.					
Circumferential Seams		N	5	No leakage @ this inspection.					
Separation (mm)	30								
Longitudinal Seams		Х	Х						
Total No. of Cracked Rings									
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)				1					
Coating		X	Y						
			~						
Corrosion By Water (V/N)									
	7500								
Camper POS/ZERO/NEG	ZEKU								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 3660	, Rise (mm): 3200, Type: AP)					
Fish Passage Adequacy		5	5						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N)	Icing (Y/N) No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	6						
		D	ownstr	eam End					
Culvert Component		Last Now		Explanation of Condition					
Direction		S		South end.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		5	5	Scaling minor					
Collar		X	X						
Wingwalls		5	5	Undermining at the SW corner-200mm rock lined 2mm wide cracks and minor spalls.					
(Shape : FLARE)		X	N/						
		X	X						
Bevel End	1	X	X						
Heaving (mm)									
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	400		1						
Scour Protection		5	5	Rock wall at East - soil at West					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)		1							
Scour/Erosion		5	5	3mx10mx0.8m scour hole lined w/ rock					
Beavers (Y/N)	ers (Y/N) No								
Downstream End General Ratin	ng	5	5						
		S	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment		6	6	Bends 30deg at d/s.					
Bank Stability		6	6						
HWM (m below Top of Culvert) 2.5				HWM not visable					
Drift (Y/N) No									
Channel Bottom NONE Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspecto	or Comments		Department Com	iments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION		2012	Repair g along hig	uardrail along town road an ghway shoulder.	id binwall						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow)	55.6/66.7		Sufficiency Rating (Last/Now) (%)		48.2/63.3 Est. Repl. Yr		2025	Maint. Re	qd. (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 Gai		Roberts			Previous	Assistant's Name					
Next Inspection Date 2		28-Aug-2013 Pr				Is Inspection Date 17-May-2010					
Inspection Cycle (Default) (months) 2											
Comment											