					Bridge Culvert Inspection								
Bridge File Number 080		08017 -1 Bridge Culvert					Form Type						
Year Built 1963			963				LOT NO.						
Bridge or Town Name CLUNY							Inspector Name						
Located Over IRIBUT 2.13.14.			BUTARY TO CROWFOOT CREEK, 3.14.5, WATERCRS-ST				Inspector Class		BR CLS A				
Located On 842:08 C			C1 9.505				Assistant Name						
Water Body CI./	Year		-				Assistant Class						
Navigabil. Cl./Ye	ar						Inspection Date		16-Feb-2012				
Legal Land Loca	ation	NW SE	C 10 TWP 23 F	RGE 21 W	/4M		Data Entry Data		Alyssa Boynton				
Longitude, Latitu	Ide	-112:51:54, 50:56:56					Reviewer Name		Garry Roberts				
Road Authority Alb		Alberta Transportation (AIT)					Review Date		24-Feb-2012				
Contract Main. Area CN		СМА30					Dept. Reviewer Name		Tim Davies				
Clear Roadway/	Skew	7.7 /					Dept. Review Date			22-Mar-2012			
AADT/Year		140 / 20	010 (A)				Follow-	Up By					
Road Classificat	ion	RLU-20	7G-60										
Detour Length (k	(m)	2											
Bridge Culvert	Informa	ation											
Number of Culve	erts		1										
Pipe # E	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 N	MAIN		1737	1920		SPE		25		152X51	2.8	ELLIPSE	
Special Features	5												
Special Features	s Comr	nent											
					1 14	ilitioo /l	e e e t e d	at)					
Litility Attachmer	nte				υι	innes (L	ocaleu	al)					
Telephone 20m West							Gas		x-ina '	100m North			
Power	X-ing 2	250m N.					Municir	Municipal					
Others							Probler	n (Y/N)	No				
Remarks	Remarks												
				A	pproa	ch Road	d / Emba	ankment					
				Last	Now	Explanation of Condition							
Horizontal Alignment					4	4	POSTE	D FOR 7	0 KM/I	H ON HORIZ C	URVE		
Vertical Alignment					5	5		anu S					
	<u> </u>		0.000	8.000									
Roadway Width	(m)		8.000										
Embankment					N	6							
Sideslope (_ :	1)		1.5				1						
(Height of Cov	er(m) :	3.1)					1						
Guardrail (Y/N)			Yes				West side only						
Approach Road / Embankment General Rating				4	4								
Culvert Component Last Now Explanation of Condition													
Direction					West								
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			X	Х									
Collar			X	Х									
Wingwalls					X	X							
(Shape :)													

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall			X							
Bevel End		1	1	(End bent 100mm) ice at floor						
Hooving (mm)	100	4	4	(Perf in floor 50mm, 70mm) 20-Mar-2007						
				(Water piping through bevel end - photo 3) 20-Mar-2007						
				2 nuts and 2 bolts missing at 1st circ seam						
Invert Above/Below Stream Bed	BELOW			(No evidence of piping from U/S through to D/S end) Feb 8 2010.						
Above/Below (mm)	200		1							
Scour Protection		N	5							
(Type : NATURAL)										
(Avg. Rock Size(mm) :)		1	1							
Scour/Erosion		N	5							
Beavers (Y/N)	No									
Upstream End General Rating		4	4	G.R. carried over.						
		Brid	lae Cu	vert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1737	, Rise (mm): 1920, Type: SPE)						
Barrel Last Accessible Date	16-Feb-2012									
Special Features										
			1							
(Type:)		0	0	Di Desferente indete indeted						
Koot	4000	3	3	unable to measure. 400mm ice on floor						
Measured At Ding No.	1830			R6 @ 11 o'clock longit seam bulging 100mm						
Measured At Ring No.	4			Est.						
Sag (IIIII)	5									
Percent Sag 5			2	D1 parts in S wall, photo isolated						
Moscured Span (mm)	1990	3	3	KT peris in S. waii - photo- isolateu						
Measured At Ping No	1000									
Deflection (mm)	1/3									
Percent Deflection	8									
Floor	v	N	N							
Bulge (mm)	0	N	IN	ON 8TH RING) 21-Feb-2002						
Measured At Ring No	~			ice						
Abrasion (Y/N)	Yes									
Circumferential Seams		4	4	3 NUTS MISSING MANY LOOSE ON 3RD RING & 5th ring						
Separation (mm)				105mm long crack at circ. seam R4						
			4	5th & 7th ring has loose bolts also @						
Total No. of Cracked Rings				long seams & 4 missing						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									

Alberta Transportation

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1737	, Rise (mm): 1920, Type: SPE)				
Coating	I	3	3	Ring 1 small perfs s. swall - & roof - photo				
Corrosion By Soil (Y/N)	Yes			Staining through numerous bolt holes.				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG ZERO								
Ponding (Y/N)	No							
Fish Passage Adequacy		5	5					
Baffle		Х	Х					
(Type :)			1					
Waterway Adequacy		5	5					
Icing (Y/N)	No			-				
Silting (Y/N)	No			-				
Drift (Y/N)	No		-					
Barrel General Rating		3	3					
	1	D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	1			East				
End Treatment (Concrete, Steel, Others, None)	STEEL		,					
Headwall		Х	X					
Collar		Х	X					
Wingwalls		Х	Х					
(Shape :)			1					
Cutoff Wall		Х	X					
Bevel End		6	6					
Heaving (mm)	150							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	300							
Scour Protection		N	6					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 500)								
Scour/Erosion		N	6					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	6	6					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)			1					
Alignment			6	Meanders @ u/s & d/s				
Bank Stability			5					
HWM (m below Top of Culvert)				No visible HWM				
Drift (Y/N)	No							
Channel Bottom DEGRADING Degrading/Aggrading								
Beavers (Y/N)	No							
. /			Page	.3 of 5				

Structure Usage										
	L	ast	Now Explanation of Condition							
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)										
Channel General Rating			6							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Cor	nments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	33.3/33.	3 Sufficiency Rating (Last/N (%)	low) 3	37.8/37.8	8/37.8 Est. Repl. Yr 2020		Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Tom		arey		Previous A	revious Assistant's Name							
Next Inspection Date 16-M		16-May-2015			Previous Inspection Date 08-Feb-2010							
Inspection Cycle (Default) (months) 39												
Comment												