					Brida	e Culve	ert Inspe	ection						
Bridge File Number 09026 -1 Bridge Culvert						Form Type			CUL1					
Year Built 1988							Lot No.	•		4				
Bridge or Town Name COCHRANE			NE			Inspector Name		Garry Roberts						
Located Over		TRIBUTARY TO ELBOW RIVER, 2.13.33.9,					Inspector Class			BR CLS A				
		\MATERCRS_ST					Assistant Name							
Located On		22:14 C1	1 38.873				Assistant Class							
Water Body Cl.	/Year						Inspection Date		24-May-2012					
Navigabil. Cl./Year						Data Entry By		Kelsey Roberts						
		SW SEC	VISEC 26 TIME 24 PGE 4 M/5M					Data Entry Date		20-Jun-2012				
Longitude, Latitude -114		-114:28:0	-111/-28-01 51-0/-12					er Name		Tom Carey				
Road Authority Albe		Alberta T	Alberta Transportation (AIT)					Review Date		07-Jun-2012				
·		CMA27							Tim Davies					
Clear Roadway	/Skew	13.7 / -28	B deg. (LHF)				Dept. Reviewer Name Dept. Review Date		29-Jun-2012					
AADT/Year		9,690 / 2	011 (A)					·		25 0011 2012				
Road Classifica	ation	RAU-213				Follow-Up By								
Detour Length	(km)	16												
Bridge Culvert	Inform	nation												
Number of Culv	erts	1												
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		3353		SP		42.1		152X51	3.0	ROUND		
Special Feature	es			1222								·		
Special Feature	es Comi	ment												
					Uti	ilities (L	ocated	at)						
Utility Attachme	T .						T _							
Telephone West end.						Gas 200m North								
Power	East 6	end - 3 wii	e.				Municipal Problem (Y/N) No							
Others							Probler	n (Y/N)	No					
Remarks				Δ.	00400	ah Daar	d / Embe	ankment						
				A				ation of	Condi	tion				
Horizontal Aligr	ment				8	8	LAPIAII	ation or	Condi	LIOII				
Vertical Alignme					8	8	-							
Roadway Width			13.700											
Embankment					7	7								
Sideslope (·1)		4.0		, ,									
(Height of Co		· 1 8\	1.0											
Guardrail (Y/N)		. 1.0)	Yes											
							_							
Approach Roa	d / Eml	bankmen	t General Rat	ing	8	8								
							am End							
Culvert Compo	onent				Last	Now		ation of	Condi	tion				
Direction			W		West									
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE			_								
Headwall					6	6	6.0 mm wide crack @ top.							
Collar			6	6	Wide cracks in 3 locations. Collar has minor spall @ SW.									
Wingwalls			X	Х										
(Shape:)														
Cutoff Wall				7	7									

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	Explanation of Condition
Heaving (mm)	0	0	0	
Invert Above/Below Stream Bed	BELOW			
	300			-
Above/Below (mm) Scour Protection	300	6		Cattlement of real clong caller
		6	6	Settlement of rock along collar
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Culvert Commonant				Ivert Barrel
Culvert Component	Cara Carlar MAIN C		Now	· •
(Pipe # : 1, Primary Span, Loca		pan (mm	1):	, Rise (mm): 3353, Type: SP)
Barrel Last Accessible Date	29-Sep-2010			Water too deep, could only enter from U/S end to R1.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	Est roof
Measured Rise (mm)				
Measured At Ring No.				P.R. 8
Sag (mm)	10			
Percent Sag	10			
Sidewall		8	N	P.R. 8
Measured Span (mm)	3363		- 11	1 11.0
Measured At Ring No.	6			-
Deflection (mm)	10			
Percent Deflection	0			
	10	7	l NI	FOO/ eilt en rand
Floor	0	7	N	50% silt covered
Bulge (mm)	0			-
Measured At Ring No.	Na			-
Abrasion (Y/N)	No			
Circumferential Seams		8	N	P.R. 8
Separation (mm)	0			
Longitudinal Seams	1.	8	N	P.R. 8
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 3353, Type: SP)
Fish Passage Adequacy		7	7	
Baffle			Х	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		Е		East
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed BELOW				
Above/Below (mm)	500			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability			7	
HWM (m below Top of Culvert)	2.2			(2000/02/25) No visible HWM
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	

		Maintana	naa Baaamman	dations					
Inancetor Recommendations	nce Recommend	Department Com	monto		Target Year	Est. Cost	Cat #		
Inspector Recommendations	Year	Inspector Comments		Department Com	ments		rarget rear	ESI. COSI	Cat #
SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP									+
REMOVE DRIFT ACCUMULATION									_
INSTALL CONCRETE/STEEL LINING									+
INSTALL STRUTS									+
INSTALL CONCRETE COLLAR/CUTO)FF								+
REPAIR SEAMS	71.1								_
OTHER ACTION									+
OTHER ACTION									_
OTHER ACTION									_
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 88.9/55	.6 Sufficiency Rating (%)	(Last/Now)	80.5/62.5	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	1 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-Feb-2014		Previous	Inspection Date	29-Sep-2010				
	21								
Comment									