Bridge Culvert Inspection															
Bridge File Number 75098 -1 Bridge C			Bridge Culve							CUL1					
Year Built	Year Built 1961							Lot No.		2					
Bridge or Town	Name	COCHRA	NE				Inspect	Inspector Name		Garry Roberts					
Located Over		BIGHILL	CREEK, 2.13	.42, WAT	ERCR	S-ST	Inspector Class		BR CLS A						
Located On	cated On 567:02 C1 6.779 ater Body CI./Year						Assistant Name								
Water Body CI./	Year						Assistant Class								
								Inspection Date		25-Jul-2012					
Legal Land Loca								Lauren Korte							
Longitude, Latitu					16, 51:16:15				Data Entry Date		30-Aug-2012				
							Reviewer Name		Tom Carey						
							Review Date		07-Aug-2012						
Clear Roadway/Skew 9.5 /							Dept. Reviewer Name		Tim Davies						
			011 (A)						06-Sep-2012						
Road Classificat	tion	RCU-209					Follow-Up By		·						
Detour Length (km)	6													
Bridge Culvert Information															
Number of Culv	erts	1													
Pipe #	Barrel	S	pan	Rise (or	Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	2	606	2880		SPE		47		152X51	3.5	ELLIPSE			
Special Feature	s	V	ERT TIMBER	STRUTS	3										
Special Feature	s Comr	ment													
					1 14:	litico /l	ocated	at)							
Litility Attachmo	nte				Ull	inties (L	_ocaleu	alj							
							Gas								
Power	North	ROW						hal							
Others	North	NOW.			Municip										
Remarks		Problem (Y/N) No													
				A	oproad	ch Road	d / Emba	ankment							
					Last			ation of Co	ndi	tion					
Horizontal Alignment			7	7	Sag cu	rve.									
Vertical Alignment					5	5									
Roadway Width (m)		9.500													
Embankment	mbankment				7	7									
Sideslope (Sideslope (:1) 3.0														
(Height of Cov	/er(m) :	4.4)													
Guardrail (Y/N)			No												
Approach Road	d / Emb	pankment	General Rat	ing	5	5									
						Upstre	am End								
Culvert Component			Last	st Now Explanation of Condition											
Direction		1	N			North.									
End Treatment (Others, None)	(Concre	ete, Steel,	STEEL												
Headwall					Х	X									
Collar					Х	Х									
Wingwalls					Х	Х									
(Shape :)							1								
Cutoff Wall					Х	X									
						1									

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Bevel projects 300mm from fill 200mm tear hole in roof. Appears to
Heaving (mm)	300			be install damage.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0			
Scour Protection		6	6	_
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Bric	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2606	6, Rise (mm): 2880, Type: SPE)
Barrel Last Accessible Date	25-Jul-2012			
Special Features	· · · · · · · · · · · · · · · · · · ·			
Special Feature		3	3	3 struts fallen over at R2 U/S.
(Type : VERT TIMBER STRUTS)			Last 3 struts @ D/S leaning to East slightly.
Special Feature				
(Туре :)				
Roof		5	5	Corrosion at roof plates R4-R8.
Measured Rise (mm)	2705			
Measured At Ring No.	5			
Sag (mm)	175			
Percent Sag	7			
Sidewall		3	3	Cracked seam.
Measured Span (mm)	2804			
Measured At Ring No.	6			
Deflection (mm)	198			
Percent Deflection	6			
Floor		5	5	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			1
Longitudinal Seams		3	3	MIN STEEL 75 MM remaining @ ring # 6 - photo.
Total No. of Cracked Rings	7		5	Crack in West wall in Ring 10 caused by bolt tipped and pulled
Total No. of Rings with Two Cracked Seams	0			- through plates. 80mm remaining steel R11.
Min. Remaining Steel Between Cracks (mm)	75			
Proper Lap (Y/N)	No			1
Longitudinal Stagger (Y/N)			1	
Coating	Yes	4	4	Roof rusted at R4-R8.
Corrosion By Soil (Y/N)	No	r	r	
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bric	lge Cu	lvert Barrel						
Culvert Component		1		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa									
Fish Passage Adequacy		5	5							
Baffle		Х	Х							
(Type :)										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		3	3	Reduced until struts repaired.						
Culvert Component	Downstream End									
Culvert Component			Now	Explanation of Condition South.						
End Treatment (Concrete, Steel,	STEEL	S		South.						
Others, None)	SIEEL									
Headwall		Х	X							
Collar	Collar									
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		7	7							
Heaving (mm) 300										
Invert Above/Below Stream Bed	Invert Above/Below Stream Bed BELOW									
Above/Below (mm)	200									
Scour Protection			5	Minor erosion @ ends of bevel.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 400)		,								
Scour/Erosion			5							
Beavers (Y/N)	eavers (Y/N) No		,							
Downstream End General Ratin	ng	7	5							
		S	tructu	re Usage						
		Last		Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		7	7							
HWM (m below Top of Culvert)				No visible HWM.						
Drift (Y/N) No										
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N) Yes										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	or Comments		Department Com	ments	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		2013	Repair 3 struts - check and tighten all other or consider removal of struts- do not appea be required with minimal deflections.									
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		33.3/33.	3	Sufficiency Rating (Last/N (%)	low) 4	18.9/46.0	Est. Repl. Yr	2020	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		Garry Roberts				Previous Assistant's Name						
Next Inspection Date	25-Oct	-2015			Previous I	vious Inspection Date 14-May-2009						
Inspection Cycle (Default) (months)												
Comment												