				Bridg	e Culve	ert Inspe	ction					
Bridge File Numbe	er 74864	-1 Bridge Culve	ert		Form Type			CUL1				
Year Built	1958	1958				Lot No.			3			
Bridge or Town Na	ame CARBO	ON				Inspecto	or Name		Owen Salava			
Located Over	TRIBU	TARY TO KNE	EHILLS CI	REEK,		Inspecto	or Class		BR CLS A			
Located On	21.14 (	21 7 875	-01			Assistar	nt Name					
Water Body CL/Ye	ar	511.010				Assistar	nt Class					
Navigabil CL/Yea	r					Inspection Date			17-Sep-2012			
Legal Land Locati	on NW SE	NW SEC 6 TWP 29 RGE 23 W4				Data Entry By		Marcia Chavez				
Longitude, Latitud	e -113:14	-113:14:09. 51:27:27				- Data Entry Date			03-Oct-2012			
Road Authority	Alberta	Alberta Transportation (AIT)				Reviewer Name			John O'Brien			
Contract Main. Are	ea CMA20	)				Review Date 27-Sep-2012						
Clear Roadway/SI	kew 11.1 /					Dept. Reviewer Name Andrew Smikles						
AADT/Year	1,840 /	2011 (A)				Eollow-I						
Road Classificatio	n RAU-2	11.8-110				Гоноw-Ор Ву						
Detour Length (km	n) 6											
Bridge Culvert In	formation											
Number of Culver	ts	1										
Pipe # Ba	arrel	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 M/	AIN	2314	2552		SPE		39		152X51		ELLIPSE	
Special Features												
Special Features	Comment											
				1 14	lition /l	o o o t o d	<b>a</b> 4)					
Litility Attachments	2			Ull	nues (L	Ocaleu a	at)					
Telephone	<b>3</b>					Gas						
Power 3	wires East r	s East r/w 30 m from c/l					al					
Others						Problem	ייי א (Y/N)	No				
Remarks												
			Ap	oproad	ch Road	d / Emba	nkment					
		Last	Now	Explanation of Condition								
Horizontal Alignmo	Horizontal Alignment				8	Approaches 60m North, both sides.						
Vertical Alignment	t			6	6	Approaches 60m North, both sides. Hills both sides - limited sight distance. No passing SBL.					SBL.	
Roadway Width (r	n)	11.100										
Embankment				7	7							
Sideslope (:1)	)	3.0				-						
(Height of Cover	r(m) : <b>2.1</b> )											
Guardrail (Y/N)		No										
Approach Road /	'Embankme	nt General Ra	ting	6	6							
					Upstrea	am <u>End</u>						
Culvert Compone	ent			Last	Now	Explana	ation of	Condi	tion			
Direction				E		_						
End Treatment (C Others, None)	oncrete, Stee	el, STEEL										
Headwall				Х	X							
Collar				Х	X							
Wingwalls				Х	X							
(Shape: )						1						

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	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6						
Heaving (mm)	50								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	100								
Scour Protection		4 4		Some 250 mm rock at sides - most eroded away leaving insufficient					
(Type : <b>RIP RAP</b> )				size and quantity pit run at SB and sides.					
(Avg. Rock Size(mm) : 250)			1						
Scour/Erosion			4	1m of undermining under bevel.					
Beavers (Y/N)	No								
Upstream End General Rating	Upstream End General Rating								
		Bric	lge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)	): 2314	, Rise (mm): 2552, Type: SPE)					
Barrel Last Accessible Date	17-Sep-2012								
Special Features									
Special Feature									
(Type : )									
Special Feature									
(Туре : )									
Roof		6	6	Numerous dents with corrosion from construction.					
Measured Rise (mm)	2630								
Measured At Ring No.	9			0.5%					
Sag (mm)	78			3.5%					
Percent Sag	3								
Sidewall		6	6	Numerous rock dents in upper sidewall from construction.					
Measured Span (mm)	2400			1 small rip @ ring 8, North side - minor corrosion @ dents.					
Measured At Ring No.	8			3.6%					
Deflection (mm)	86								
Percent Deflection	4								
Floor		N	6						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		7	7						
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			1N Stagger					
Longitudinal Stagger (Y/N) Yes									
Coating		5	5	Superficial corrosion on floor and bevels. Alkalai stains at bolt holes.					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2314, Rise (mm): 2552, Type: SPE)									
Fish Passage Adequacy			5	D/S end slightly perched.					
Baffle			Х						
(Type : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N) No									
Barrel General Rating			6						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	Х						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall			X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	/ert Above/Below Stream Bed ABOVE								
Above/Below (mm)	Above/Below (mm) 100								
Scour Protection		4	4	Rock scoured out at sides of banks, SB and 0.5 m under bevel.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		4	4	6m wide x 20m long x 1m scour. 100mm rock displaced from SB.					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	4	4						
			Structu						
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			non						
Alignment			4	Stream aligns at South side of U/S bevel. Bend in channel at D/S end - 20 m West. Steep cut at D/S.					
Bank Stability			5	Scour 1 m deep at D/S Channel.					
HWM (m below Top of Culvert)				Not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	Channel Bottom DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			4						

Maintenance Recommendations											
Inspector Recommendations Y		Year	Inspector Comments		Department Comr	ments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP 2		2012	20m3 class I at ends.								
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		66.7/66.	7 Sufficiency Rating (Last/No. (%)	ow) 6	61.9/61.9	Est. Repl. Yr 2025		Maint. Reqd. (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 Dave Lam			e Lam Previous			Assistant's Name					
Next Inspection Date 17-Jun-2		7-Jun-2014 Previous			Inspection Date 11-Nov-2010						
Inspection Cycle (Default) (months) 21											
Comment											