Bridge Culvert Inspection															
Bridge File Number 07025 ·			025 -1 Bridge Culvert					Form Type		CUL1					
Year Built 1968			8				Lot No.		3						
Bridge or Town Name CARBON			N				Inspector Name		Owen Salava						
Located Over TRIBUTA 3.46.4, V			JTARY TO KNEEHILLS CREEK,				Inspector Class			BR CLS A					
Located On		575.04	C1 9 664					Assistant Name							
Water Body CL/Year			010.001		Assistant Class										
Navigabil CL/Ye					Inspec	Inspection Date		26-Jan-2011							
Legal Land Location SE SEC			25 TWP 29 F	RGE 23 W	4M		Data Entry By			Marcia Chavez					
Longitude Latitude -112.06		6:13 51:30:12					Data Entry Date		03-Mar-2011						
Road Authority Alk		Alberta	Transportation	(AIT)			Reviewer Name			John O'Brien					
Contract Main Area CN		CMA21				Review Date		03-Feb-2011							
Clear Roadway/Skew 84		8.4 /			Dept. Reviewer Name			Chris Black							
AADT/Year		1.060 / 2009 (A)						Dept. Review Date		04-Mar-2011					
Road Classifica	tion	RCU-20	RCU-208-110				Follow	ollow-Up By							
Detour Length (	km)	6													
Bridge Culvert Information															
Number of Culverts 1															
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		1724	1901		SPE		90.8		152X51	2.8	ELLIPSE			
Special Feature	s			-						1					
Special Feature	s Comn	nent	Appears to be	elliptical i	nstalla	tion.									
					Ut	ilities (L	ocated	at)							
Utility Attachme	nts	• •					0								
Telephone	one South side.						Gas								
Power	IN SIDE 3 WIFE O/H 20m from c/l						Nunici		N1-						
Uthers							Problei	n (Y/N)	INO						
Remarks				٨	nnroa	ch Poar	l/Emb	ankmont							
					Last	Now	Explanation of Condition								
Horizontal Alignment			7	7	Sag curve.										
Vertical Alignment				6											
Roadway Width (m)		8.400													
Embankment					5	4	Flatter slopes at top, slope slumped at N with 1m dro					o about 1/2 wav			
Sideslope (	:1)		3.0				down.								
(Height of Cov	/er(m) :	13)													
Guardrail (Y/N) Yes															
Approach Road	d / Emb	ankmei	nt General Ra	ting	6	6									
						Unetro	am End								
Culvert Compo	nent				Last	Now	Fxplan	ation of	Condi	tion					
Direction					N	1.1011									
End Treatment (Concrete, Steel, STEEL					-										
Headwall			X	Х											
Collar			X	Х											
Wingwalls				X	X										
(Shape: )					1										
Cutoff Wall						X									
							1								

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Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6						
Heaving (mm)	450								
Invert Above/Below Stream Bed ABOVE				Drops from bevel end to 8.5m into barrel.					
Above/Below (mm) 100			-						
Scour Protection		6 N		Snow covered.					
(Type : )									
(Avg. Rock Size(mm) : )									
Scour/Erosion		6	N	Snow covered.					
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Bric	dae Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 1724	, Rise (mm): 1901, Type: SPE)					
Barrel Last Accessible Date	26-Jan-2011			Plate layout from invert is 5N,7N,5N,7N. S end in 0.8m of ice.					
Special Features			1						
Special Feature									
(Type : )									
Special Feature									
(Туре : )			-						
Roof		6	6						
Measured Rise (mm)	1810								
Measured At Ring No.	18								
Sag (mm)	91								
Percent Sag	4			4.8%					
Sidewall		5	5						
Measured Span (mm)	1842								
Measured At Ring No.	19								
Deflection (mm)	118			-					
Percent Deflection	6			6.8%					
Floor		4	N	(S end silted in. 05-Oct-2004). (Rust, no perforations. Pitting on first					
Bulge (mm)	0			3 sections from U/S. 22Feb2008). Snow covered.					
Measured At Ring No.				-					
Abrasion (Y/N)	No								
Circumferential Seams	1	7	7						
Separation (mm)	0								
Longitudinal Seams		6	6						
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)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		4	4	Alkaline & rust present.					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	Yes								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

07025 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1724	, Rise (mm): 1901, Type: SPE)						
Fish Passage Adequacy		X	X	(Small fry in barrel, probably stickleback. 05-Oct-2004).						
Baffle		Х	Х							
(Туре : )										
Waterway Adequacy			5	Evidence that water runs to 1.5m high						
Icing (Y/N)	No			(of 1.8m). Grass at top seams.						
Silting (Y/N)	No									
Drift (Y/N) No										
Barrel General Rating		5 5								
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	S								
End Treatment (Concrete, Steel, STEEL Others, None)			1							
Headwall		X	X							
Collar		X	X							
Wingwalls		Х	Х							
(Shape : )		1	-							
Cutoff Wall		Х	X							
Bevel End		N	5	(Bevel end is set too low on D/S end. 22Feb2008).						
Heaving (mm)	Heaving (mm) 0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	500									
Scour Protection		5	N	Snow covered.						
(Type:)										
(Avg. Rock Size(mm) : )		1	-							
Scour/Erosion			N	(Erosion trend= continuation of ditch 2.5m W, 1.0m deep to E. 22Feb2008).						
Beavers (Y/N) No										
Downstream End General Ration	ng	5	5							
		S	Structur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)			-							
Alignment			7							
Bank Stability			7							
HWM (m below Top of Culvert)				Grass in barrel indicates full flow						
Drift (Y/N) No				toward D/S end.						
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

Maintenance Recommendations											
Inspector Recommendations		ear	Inspector Comments	Department Comm	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	201	)11	Repair slump @ North slope, 50m3 pitrun.								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 55.	5.6/55.6	5 Sufficiency Rating (Last/Now) (%)	56.7/56.6	Est. Repl. Yr	2025	Maint. Red	qd. (Y/N)	Yes		
Special Comments for Next Inspection	Department Comments										
Maintenance Reviewed By				Date	Date Estimated Total 0						
Proposed Long-Term Strategy 2004.05.29 Culvert should be ok until 2023. Monitor normal BIM.											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Brya		ai	Prev	us Assistant's Name							
Next Inspection Date	26-Apr-2014 Pre			ous Inspection Date	us Inspection Date 22-Feb-2008						
Inspection Cycle (Default) (months) 39											
Comment											