					Brida	e Culve	ert Inspe	ection				
Bridge File Number 77370 -1 Bridge Culvert				Driago Garro		Form Type		CULM				
Year Built		1994					Lot No.		1			
Bridge or Town	ARTH CR	TH CR				Inspector Name		Brian Pientsch				
Located Over TRIBUTA		TARY TO LOON RIVER, 8.10.18.12.4,				Inspector Class Assistant Name		BR CLS A Clem Guenette				
Located On		88:10 C	1 45.154	15 154				nt Class		Ciem Guenette	;	
Water Body Cl.	/Year							ion Date		12-Jun-2012		
Navigabil. Cl./Y	'ear						· · ·			Theresa Lacus		
Legal Land Loc	ation	NE SEC	C 10 TWP 92 R						Data Entry By Data Entry Date		na –	
Longitude, Latit	tude	-115:11	:02, 56:58:09	02 56.58.00					Reviewer Name			
Road Authority		Alberta	Transportation	(AIT)			Review Date		Eric Carcoux 01-Nov-2012			
Contract Main.	Area	CMA02					Dept. Reviewer Name			 າ		
Clear Roadway	/Skew	11.1 / 1	0 deg. (RHF)				· · · · · · · · · · · · · · · · · · ·	eview Date		11-Jan-2013	•	
AADT/Year		370 / 20	011 (A)				Follow-		-			
Road Classifica	ation	RCU-20)9G-90					-1 5				
Detour Length (· · · · · · · · · · · · · · · · · · ·	300										
Bridge Culvert												
Number of Culv			2									
•	Barrel	Span Rise (or		Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
	MAIN		-	3670		SP		36.6		152X51	3.0	ROUND
2 Special Feature	MAIN		-	3670		SP		36.6		152X51	3.0	ROUND
Special Feature Utility Attachme Telephone					Uti	lities (L	ocated Gas	at)				
Power							Municip	bal				
Others							Probler	n (Y/N)	٥V			
Remarks												
				Ap				ankment				
					Last	Now	Explan	ation of C	ondi	tion		
Horizontal Align					8	8						
Vertical Alignme			11.500		8	8						
Roadway Width	1 (11)		11.500									
Embankment					8	8						
Sideslope (_:1)		4.0									
(Height of Co	ver(m)	: 1.7)										
Guardrail (Y/N)			Yes				2 posts missing, rail bent @ SW corner. (photo) Gravel covering all 4 turn down ends.					
Approach Roa	ld / Eml	bankmei	nt General Rat	ing	8	8						
							am End					
Culvert Compo					Last	Now	Explan	ation of C	ondi	tion		
(Pipe # : 1, Sp a	an Typ	e: Prima	ry Span)				1					
Direction End Treatment Others, None)	(Concre	ete, Stee			W		North p	ipe				
Headwall					8	8						
Collar				7	7	Minor spall north shoulder.						
Wingwalls					Х	Х						

Culvert Component	0	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	7	
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No	-		
Upstream End General Rating		7	7	
		Dut		
Culvert Component			Now	Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			, Rise (mm): 3670, Type: SP)
Barrel Last Accessible Date	16-Jan-2007		<u>,-</u>	(North barrel) 1.4 Water 1.2m to top of culvert. Viewed from ends, shape appears good.
Special Features				
Special Feature				
(Type:)				
Special Feature				_
(Type :)				
Roof		8	N	Floor ice covered no rise measuredJan 16, 2007
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			_
Percent Sag				
Sidewall	1	8	N	2007-01-16
Measured Span (mm)	3660			_
Measured At Ring No.	4			_
Deflection (mm)	0			-
Percent Deflection				
Floor	1	N	N	Water covered.
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	0	N	N	-
Separation (mm)	0			
Longitudinal Seams		N	N	2N Stagger
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams				-
Min. Remaining Steel Between Cracks (mm)				-
Proper Lap (Y/N)	Yes			-
Longitudinal Stagger (Y/N)	Yes			
Coating		8	N	Staining along bottom 1/2 16-Jan-2007 Viewed from ends.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77370 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 3670, Type: SP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		8	8							
Baffle		Х	Х							
(Туре :)										
Waterway Adequacy		8	8							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			N	GR 8 - 16-Jan-2007						
				eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)									
Direction		E		North pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL	X	1							
Headwall			X							
Collar			X							
Wingwalls		X	X							
(Shape :)			1							
Cutoff Wall		X	X							
Bevel End	I	7	7							
Heaving (mm)	100									
Invert Above/Below Stream Bed										
Above/Below (mm)	700		1							
Scour Protection		8	8							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 400)			1							
Scour/Erosion	1	8	8							
Beavers (Y/N)	No		1							
Downstream End General Ratin	ng	7	7							
				am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		W		South pipe.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		8	8							
Collar		8	8							
Wingwalls		Х	Х							
(Shape:)			N.1							
Cutoff Wall		N	N							

Alberta Transportation

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				-
Scour/Erosion		7	7	
Beavers (Y/N)	No			
		-	-	
Upstream End General Rating		7	7	
				Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo		Span (I	mm):	, Rise (mm): 3670, Type: SP)
Barrel Last Accessible Date	16-Jan-2007			(South barrel) Water 1.4m to culvert Viewed from ends, shale appears good.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре:)			-	
Roof		8	N	Floor water covered. No rise measured, 2007-01-16
Measured Rise (mm)		-		
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	2007-01-16
Measured Span (mm)	3657			
Measured At Ring No.	4			-
Deflection (mm)	0			-
Percent Deflection				-
Floor		N	N	Water covered.
Bulge (mm)		14	14	
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0	IN	IN	
Longitudinal Seams	V	N	N	2N Stagger 25 Nov 2008
Total No. of Cracked Rings	0	IN	IN	2N Stagger-25-Nov-2008
Total No. of Rings with Two				
Cracked Seams				-
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	N	Staining16-Jan-2007
Corrosion By Soil (Y/N)	No			Viewed from ends.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77370 -1 Bridge Culvert

	1	Brio	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 3670, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy			8	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	GR 8 -16-Jan-2007
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		E		South pipe
End Treatment (Concrete, Steel, Others, None)	nd Treatment (Concrete, Steel, STEEL			
Headwall			X	
Collar			X	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
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	7	7	
		s	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment			7	
Bank Stability			8	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	NONE			100m D/S and U/S.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	1			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			1

Structure Usage									
	Last	t Now	Explanation of Condition						
Channel General Rating		7							

			Maintenance Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments	Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	FF								
REPAIR SEAMS									
OTHER ACTION	2012 2012		rd rail & remove gravel from turndown						
OTHER ACTION		Replace corner.	2 posts and sb sections of rail SW						
OTHER ACTION		Unable Level 2	to inspect for 2 cycles, recommend inspection as per Bim Manual.						
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No (%)	ow) 55.6/	55.6	Sufficiency Rating (Last/Now) (%)	67.7/67.7	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	Yes
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	Brian Pientso	h	Previous	vious Assistant's Name Lisbeth Medina					
Next Inspection Date	12-Mar-2014		Previous	s Inspection Date	04-Aug-2010				
Inspection Cycle (Default) (months)	21								
Comment									