Bridge Culvert Inspection													
Bridge File Nur	mber	07953 -	1 Bridge Culve				Form Type		CULM				
Year Built		1965	0				Lot No.			4			
Bridge or Towr	n Name	RICH V	ALLEY				Inspector Name		Melanie Johnson				
Located Over		TRIBUT	TARY TO MACDONALD CREEK,			Inspector Class		BR CLS B					
Located On				35.3, WATERCRS-ST				nt Name					
Located On 33:04 C1 14.831 Water Body Cl./Year				1				Assistant Class					
Navigabil. CI./									23-Aug-2011				
Legal Land Location SW SEC 26 TWP 56 RGE 3 W5M					M		Data Entry By			Theresa Lacusta			
Longitude, Lati):56, 53:51:47				· · · · · · · · · · · · · · · · · · ·		13-Sep-2011						
Road Authority		Transportation	Reviewer Name		Eric Carcoux								
Contract Main.		CMA10	•	()			Review Date Dept. Reviewer Name		07-Sep-2011				
Clear Roadway		9.4 /											
AADT/Year	,		2010 (A)				Dept. R		ate	15-Sep-2011			
Road Classifica	ation	RAU-20	· · · · ·				Follow-U	јр Ву					
Detour Length	(km)	30					1						
Bridge Culver	· /	nation								1			
Number of Cul			2										
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2160	1370		FP		24.4		68X13	2.8	ARCH	
2	MAIN		-	1200		SSP		24				ROUND	
Special Feature			VERT TIMBER	STRUTS			I			1			
Special Feature		ment											
Utility Attachmo Telephone Power Others Remarks	West	r/w. es East r/w.						al ı (Y/N)	Along	Along West r/w.			
				Ap	proad	ch Road	d / Emba	nkment					
					Last	Now	Explana			tion			
Horizontal Alig	nment				6	6		Intersection 400m South.					
Vertical Alignm	nent				6	6	Sag curve, no passing, school zone. Limited sight distance both directions.						
Roadway Widt	h (m)		9.400										
Embankment					7	7							
Sideslope (_:1)		5.0										
(Height of Co	over(m)	: 0.8)											
Guardrail (Y/N))		No										
Approach Roa	ad / Eml	bankme	nt General Rat	ing	6	6							
						Upstre	am End						
Culvert Comp	onent				Last	Now	Explana	ation of	Condi	tion			
(Pipe # : 1, Sp	an Typ	e: Prima	ary Span)										
Direction					E		North pi	pe.					
End Treatment Others, None)	t (Concre	ete, Stee	el, STEEL										
Headwall					Х	X							
Collar					Х	Х							

an)	Last X X	Now	Explanation of Condition
		X	
)		Х	
)	Х		
)	Х		
)		X	
)	6	6	
5	0	0	
LOW			
)			
<u>,</u>	1	4	
	-	-+	
	4	4	2my8my0 7Em doop acour off and of riprop
	4	4	2mx8mx0.75m deep scour off end of riprap. Grassed in - appears stable
	4	4	
	Brid	lae Cul	vert Barrel
			Explanation of Condition
Code: MAIN, Span			
Aug-2011			
	4	4	3.6m of struts beginning 3.8m from outlet. West end strut not plumb.
ł			West timber strut cracked. 4 struts total.
I			
	3	3	
90		-	
D			
	5	5	
60			
0			
-			
	4	4	
0	•		
-			
	5	5	Separation has been grouted.
2	0	0	
-	5	5	Riveted.
	5	5	
Between Cracks (mm) Proper Lap (Y/N) Yes			
	Code: MAIN, Spar Aug-2011	4 4 4 4 4 4 4 5 60 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 4 4 4 4 4 Bridge Cul Last Now Code: MAIN, Span (mm): 2160 Aug-2011

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Drie	ige cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2160	, Rise (mm): 1370, Type: FP)
Coating		4	4	Pitting rust & scaled along floor & lower sidewall.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			Х	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		D	ownsti	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)			
Direction		W		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar			Х	
Wingwalls		X	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	100	5	5	
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
	100	7	7	
Scour Protection		7	7	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 300) Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	7	7	
			Upstre	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		Е		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	I	Х	X	
Collar		X	X	

Upstream End									
Culvert Component		Last		Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		X	Х						
Bevel End		7	7						
Heaving (mm)	0								
	ABOVE			-					
Above/Below (mm)	100								
Scour Protection		4	4						
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		4	4	2x8x0.75m(wld) scour hole off end of riprap. Grassed in and appears stable.					
Beavers (Y/N)	No								
Upstream End General Rating		4	4						
		Brie	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: SSP)					
Barrel Last Accessible Date	23-Aug-2011								
Special Features	•								
Special Feature				_					
(Type :)									
Special Feature									
(Туре :)									
Roof		7	7	_					
Measured Rise (mm)	1200								
Measured At Ring No.				_					
Sag (mm)				_					
Percent Sag									
Sidewall		7	7						
Measured Span (mm)	1200								
Measured At Ring No.									
Deflection (mm)									
Percent Deflection	0		_						
Floor		7	7						
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N)	No		_						
Circumferential Seams	I	Х	X						
Separation (mm)									
Longitudinal Seams		X	X						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r		, Rise (mm): 1200, Type: SSP)
Coating		4	4	Pitting rust & scaled along floor & lower sidewall.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle			X	
(Type :)		X		
Waterway Adequacy		6	6	
Icing (Y/N)	No		U	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
g				
				ream 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)	STEEL		1	
Headwall		Х	X	
Collar	Collar			
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ıg	7	7	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

			Maintenance Rec	commend	ations					
Inspector Recommendations		Year	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	DFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No(%)	ow)	33.3/33.3 Sufficiency Rating (Last (%)		ow) 4	48.1/45.5 Est. Repl. Yr 201		2015	Maint. Reqd. (Y/N)		No
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	Melanie	e Johnso	n	Previous Assistant's Name						
Next Inspection Date	23-May	-2013		Previous Inspection Date 11-Nov-2009						
Inspection Cycle (Default) (months)	21									
Comment										