Bridge Culvert Inspection														
Bridge File Number		06787 -1 Bridge Culvert					Form Type			CUL1				
Year Built 1964		4				Lot No.			2					
Bridge or Town Name BELLIS							Inspector Name			Kris Bosters				
Located Over REDCLA			_AY CREEK, 6.42, WATERCRS-ST					tor Class		BR CLS A				
Located On 857:06 C			21 26.484					int Name		Brian Cote				
Water Body Cl./Year							Assistant Class							
Navigabil. Cl./Year							Inspection Date			11-Dec-2012				
Legal Land Loc	ation	NW SEC	35 TWP 58 RGE 15 W4M					ntry By		Theresa Lacusta				
Longitude, Latit	ude	-112:08:0	:00, 54:03:47					ntry Date	;	15-Jan-2013				
Road Authority Alberta		Alberta T	a Transportation (AIT)					er Name	•	Eric Carcoux				
Contract Main. Area UNDEF		FINED CMA					/ Date		19-Dec-2012					
Clear Roadway/Skew 9 / 30 d		9 / 30 de	g. (RHF)				Dept. Reviewer Name			Paul Catt				
AADT/Year		600 / 201	00 / 2011 (A)					Review Da	ate	18-Jan-2013				
Road Classifica	ation	RCU-209	209-110					Ор Ву						
Detour Length ((km)	30												
Bridge Culvert	Bridge Culvert Information													
Dine #	Porrol	1	`non	Diag (or		Turne	L an att		Corr Drofilo	DL/Clab	Chana			
Pipe #	Darrei		pan	Rise (or	Dia.) Type			Length		Con. Prome	Thickness	Shape		
1	MAIN	2	019	2226		SPE		74.4		152X51	3.0	ELLIPSE		
Special Feature	es													
Special Features Comment														
Litility Attachme	onte				Ul	inties (L		al)						
	Fast	litch	itah Caa											
Power	Single	wire 15m	East of c/l			Municipal								
Others	Olligit	s wire fon				Proble	Problem (Y/N) No							
Remarks							1100101							
Romanio				A	oproad	ch Road	d / Emba	ankment						
Last Now Explanation of Condition														
Horizontal Aligr	Horizontal Alignment			7	7	Access road to SE.								
Vertical Alignment					7	7	Grest curve to the North.							
Roadway Width (m)			9.000											
Embankment					7	7								
Sideslope (:1)		2.5											
(Height of Co	 ver(m) :	7.5)												
Guardrail (Y/N)		Yes												
Approach Roa	d / Eml	bankmen	t General Rat	ing	7	7								
						Unotro	om End							
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	ion				
Direction	Jiiciit				F	1101	Explai		Contai					
End Treatment (Concrete, Steel, STEEL														
Headwall			Х	X										
Collar			X	X										
Wingwalls				X	X									
(Shape:)			~	~										
Cutoff Wall				X	X									

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		4	4	First 2 rings & bevel candidate for uplift. Bevel projects from fill 2.0m.						
Heaving (mm)	750									
nvert Above/Below Stream Bed ABOVE										
Above/Below (mm)	300		-							
Scour Protection			4	Bevel protrudes from fill 2m and water impound/flows at one side.						
(Type : RIP RAP)				_						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		5	4							
Beavers (Y/N)	Yes			1.2m beaver dam present on bevel. Another dam 20m East.						
Upstream End General Rating		4	4							
		Brid	dge Cu	Ivert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm): 2019	, Rise (mm): 2226, Type: SPE)						
Barrel Last Accessible Date	02-Sep-2009			Not accessible, water flowing under ice.						
Special Features										
Special Feature										
(Type :)				1						
Special Feature				1						
(Type:)										
Roof		5	N							
Measured Rise (mm)	2075									
Measured At Ring No.	9									
Sag (mm)	151									
Percent Sag	7									
Sidewall			N							
Measured Span (mm)	2165			Water flowing in through lower sidewall in R3 at u/s endphoto, not						
Measured At Ring No.	9			Sule il caused by conosion, covered by ice.						
Deflection (mm)	146									
Percent Deflection	7									
Floor		5	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		5	N							
Separation (mm)	0									
Longitudinal Seams		5	N							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)				_						
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		5	N	Superficial rust lower sidewall & floor and at leakage02-Sep-2009						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	Yes			Ponding 500 mm near outlet.						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2019, Rise (mm): 2226, Type: SPE)									
Fish Passage Adequacy		4	5						
Baffle		Х	Х						
(Type :)									
Waterway Adequacy		7	7						
Icing (Y/N)	Icing (Y/N) No								
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		4	4	GR carried fwd from 02-Sep-2009					
			ownet	roam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W							
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, STEEL Others, None)								
Headwall	1	X	X						
Collar		X	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	Х						
Bevel End		7	N	Snow covered.					
Heaving (mm)	100								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	200								
Scour Protection		4	N						
(Туре :)				_					
(Avg. Rock Size(mm) :)									
Scour/Erosion			N	Scour hole @ outlet ~5m long x 3m wide x 0.5m deep02-Sep-2009					
Beavers (Y/N)	Yes								
Downstream End General Ratin	ng	4	4	GR carried fwd from 02-Sep-2009.					
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6						
Bank Stability		7	7						
HWM (m below Top of Culvert)				No visible HWM.					
Drift (Y/N) Yes									
Channel Bottom Degrading/Aggrading									
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)		_						
Channel General Rating		6	6						

Maintenance Recommendations													
Inspector Recommendations			Year	Inspector Comments			Department Co	its		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTOFF													
REPAIR SEAMS													
OTHER ACTION			2013	Remove	beaver dam @ inl	et.							
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			44.4/44.4		Sufficiency Rating (Last/Now) (%)		47.4/52.8 Es		t. Repl. Yr 2020		Maint. Reqd. (Y/N)		Yes
Special Monitor perforations. Comments for Next Inspection					Department Comments								
Maintenance Reviewed By					Date			E	Estimated Tota	I 0			
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Me			Melanie Johnson Previous A					Assistant's Name					
Next Inspection Date 11			-2016			Previou	s Inspection Date	nspection Date 02-Sep-2009					
Inspection Cycle (Default) (months) 3													
Comment													