Bridge Culvert Inspection													
Bridge File Number 77368 -1 Bridge Culvert						Form Type		CULM	CULM				
Year Built		1993	0				Lot No.		4				
Bridge or Town I	Name RED EARTH CR						Inspector Name		Brian Pientsc	Brian Pientsch			
Located Over TRIBUTARY TO LC WATERCRS-ST				LOON RIVER, 8.10.18.12.8,			Inspector Class		BR CLS A	BR CLS A			
Located On 88:10 C1 17.645						Assistant Name		Clem Guenet	Clem Guenette				
Water Body Cl./Year						Assistant Class		44 has 0040					
Navigabil. Cl./Ye							Inspection Date		11-Jun-2012				
	Legal Land Location NW SEC 24 TWP 89 RGE 9 W5M				M			Data Entry By Theresa Lacusta Data Entry Date 16-Oct-2012					
Longitude, Latitude -115:18:04, 56:44:10								•	16-Oct-2012				
Road Authority Alberta Transpo				(AIT)			Reviewer Name Review Date		Eric Carcoux	08-Oct-2012			
Contract Main. A		-											
Clear Roadway/Skew 14.5 /								· ·		·			
AADT/Year		370 / 20	11 (A)				Dept. Review Date Follow-Up By		07-Jan-2013				
Road Classificat	ion	RAU-21	0-110				FOILOW-OF	ЪБу					
Detour Length (k	(m)	300											
Bridge Culvert	Inform	ation											
Number of Culve	erts	:	2			I							
Pipe # E	Barrel		Span	Rise (or Dia.)		Туре	Le	ength	Corr. Profile	PI./Slab Thickness	Shape		
1 N	MAIN		-	2700		MP	37	7	125X26	2.8	ROUND		
2 N	MAIN		-	2700		MP	37	7	125X26	2.8	ROUND		
Special Features	5												
Utility Attachments					Uti	lities (L	.ocated at		s line-25m along	East ditch			
Telephone Power	2 wire							Gas Gas line-25m along East ditch Municipal					
Others	5 WIE	3 wire o/h - 27m East of road cl					Problem (•				
Remarks							1.10010111 (·				
				A	oproad	ch Road	d / Embani	kment					
					Last	Now	Explanation of Condition						
Horizontal Alignr	nent				8	8	_						
Vertical Alignme	nt				8	8							
Roadway Width	(m)		12.000										
Embankment					7	7							
Sideslope (:	1)		4.0				-						
(Height of Cov	er(m) :	1.7)											
Guardrail (Y/N)			Yes			East side only							
Approach Road	l / Emb	bankmer	nt General Rat	ing	8	8							
					1	Upstrea	am End						
Culvert Compo					Last	Now	Explanati	ion of Co	ndition				
(Pipe # : 1, Spa	n Type	e: Prima	ry Span)										
Direction								South pipe.					
End Treatment (Concrete, Steel, STEEL Others, None)						Tagged a	t crown.						
Headwall					Х	X							
Collar					X	Х							
Wingwalls				Х	X								
(Shape :)													

Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	Lasi	NOW	
Cutoff Wall	- opuil)	X	X	
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	400			
Scour Protection			4	Loss of fill on sides, 1.5m long, 0.5m
(Type : RIP RAP)				wide, 0.5m .
(Avg. Rock Size(mm) : 300)			-	
Scour/Erosion		4	4	Erosion 1.5m x 0.5 x 0.5 along sides of bevel.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
				Ivert Barrel
Culvert Component	tion Code: MAINL S			Explanation of Condition
(Pipe # : 1, Primary Span, Loca		pan (mn	<u>i):</u>	, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	15-Jan-2000			(SOUTH PIPE) Water 1.45m frown crown Shape and condition appear good as viewed from the ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		N	N	
Measured Rise (mm)				_
Measured At Ring No.				_
Sag (mm)	0			_
Percent Sag			_	
Sidewall	1	N	N	
Measured Span (mm)				-
Measured At Ring No.				-
Deflection (mm)				-
Percent Deflection				
Floor	1	N	N	
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	20			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				-
Total No. of Rings with Two Cracked Seams				_
Min. Remaining Steel Between Cracks (mm)				-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				
Coating		N	N	
Corrosion By Soil (Y/N)				-
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

77368 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 2700, Type: MP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	Yes			approx 1.5m					
Fish Passage Adequacy		8	8						
Baffle			Х						
(Туре :)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating	Barrel General Rating		N	G.R. 8 -15-Jan-2000					
			1						
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)	1							
Direction		E		South pipe					
End Treatment (Concrete, Steel, Others, None)	STEEL		1						
Headwall		X X	X						
Collar			X						
Wingwalls		X	X						
(Shape :)		1	1						
Cutoff Wall		X	X						
Bevel End	I	5	5						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	500		1						
Scour Protection		4	4	Loss of fill on bevel sides 2m Long, 1.2m wide, 0.8m deep.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			1.						
Scour/Erosion	I	4	4	Erosion on bevel sides.					
Beavers (Y/N)	No								
Downstream End General Ration	ng	4	4						
				am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		W		(north pipe)					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape :)		1							
Cutoff Wall		X	X						

Culvert Component (Pipe # : 2, Span Type: Second Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type : RIP RAP)	100	Last 5 4	Now 5	Explanation of Condition
Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection	100 BELOW			
Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection	BELOW			
Invert Above/Below Stream Bed Above/Below (mm) Scour Protection	BELOW	4	Δ	
Above/Below (mm) Scour Protection		4	Δ	
Scour Protection	400	4	Δ	
		4	Δ	
(Type : RIP RAP)				Loss of fill 1.5m long, 0.7m wide, 0.5m deep.
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	Erosion along sides of bevel
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN			, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	15-Jan-2000			(South pipe.) Water 1.4m from crown. Shape and condition appear good as viewed from ends.
Special Features				
Special Feature				
(Туре:)				
Special Feature				
(Туре :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				_
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	20			
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2700, Type: MP)					
Ponding (Y/N)	Yes			Approx 1.5m ponding.					
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	N	G.R. 8 - 15-Jan-2000					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		E		North pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL		-						
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		Х	X						
(Shape :)									
Cutoff Wall		Х	X						
Bevel End	Bevel End								
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 500									
Scour Protection		4	4	Loss of fill on bevel sides.					
(Type : RIP RAP)				0.8m wide, 1m deep, 2m long.					
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion		4	4	Erosion 0.8m x1m s2m on bevel sides.					
Beavers (Y/N)	No								
Downstream End General Ratir	ng	4	4						
		S		re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		-	-						
Alignment		8	8						
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading				Stable 30m d/s - beaver dam					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		8	8						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comr		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												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			55.6/55.0	6 Sufficiency Rating ((%)	Last/Now)	62.2/62.2 Est. Repl. Yr 2041		2041	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection						Department Comments						
Maintenance Revi	ewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy												
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspector's Name Brian Pie			Pientsch		s Assistant's Name Lisbeth Medina							
Next Inspection Date 11-Ma			-2014		Previous	Is Inspection Date 04-Aug-2010						
Inspection Cycle (Default) (months)	21										
Comment												