Bridge Culvert Inspection													
Bridge File Number 78172 -1 Bridge Culvert							Form Type			CULE			
Year Built 1978			<u> </u>				Lot No.			4			
Bridge or Town	3OW LAKE				Inspector Name			Brian Pientsch					
			ORDER TRIBUTARY TO SOUSA				Inspector Class			BR CLS A			
Located On		58:04 C1	1 24 789				Assistant Name			Clem Guenette			
Water Body Cl.	/Year						Assistant Class		44 1 0040				
Navigabil. CI./Y	′ear						· · ·			11-Jan-2012 Theresa Lacus	•ta		
Legal Land Loc	cation	SE SEC								27-Feb-2012			
Longitude, Latit	tude	-119:04:	07 58.33.30					/er Name		Eric Carcoux			
Road Authority		Alberta T	Iberta Transportation (AIT)					/ Date		26-Feb-2012			
Contract Main. Area CMA		CMA01							me	David Morrison			
Clear Roadway	//Skew	14.6 / 30	1.6 / 20 dog (PHE)					Review Date		30-Mar-2012	•		
AADT/Year		740 / 20	11 (A)				Follow						
Road Classifica	ation	RAU-21	1.8-110										
Detour Length	(km)	999											
Bridge Culvert	t Inform	ation											
Number of Culv		1	•										
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S	-		2400		MP	5		125X26	2.8	ROUND		
1	MAIN	2	2019	2226		MPE		51.8		68X13	4.2	ELLIPSE	
1	D/S	-		2400		MP		12.8		125X26	2.8	ROUND	
Special Feature	es												
Special Feature	es Comr	ment											
					+;	litios (l	ocated	at)					
Utility Attachme	ents				Oti			aty					
Telephone		optic nort	h r/w, N. r/w				Gas						
Power		o/h, Nort			Munici	cal							
Others								m (Y/N) No	c				
Remarks													
				A	proac	ch Road	d / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Aligr	nment				7	7	Approach approx. 75m West, grade rising to West.						
Vertical Alignm					7	7							
Roadway Width	n (m)		14.600										
Embankment					6	6							
Sideslope (	:1)		4.0		0	0							
(Height of Co		3.8)					1						
Guardrail (Y/N)			No										
Approach Roa	ad / Emb	bankmen	t General Rat	ing	7	7							
						Unstre	am End						
Culvert Compo	onent				Last	Now		ation of Co	ndit	ion			
Direction		N											
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				Х	X								
Collar	Collar			х	Х								
Wingwalls				Х	Х								
(Shape : )	÷						1						
						Page	4 - 4 5						

Alberta Transportation

			Upstre	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		Х	X							
Bevel End		9	N	Covered in ice.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		9	N	Snow covered.						
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : <b>300</b> )										
Scour/Erosion		9	N	Snow covered.						
Beavers (Y/N)	No									
Upstream End General Rating		9	9	GR carried fwd from 28-May-2010						
		Brid	dge Cu	Ivert Barrel						
Culvert Component		Last								
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):		Rise (mm): 2400, Type: MP)						
Barrel Last Accessible Date	28-May-2010			Unable to access - 880mm ice to crown.						
Special Features										
Special Feature										
(Type:)		1								
Special Feature										
(Type : )										
Roof		8	N	@cl						
	2428	0	IN	Upward - 28-May-2010						
Measured Rise (mm)	2420			upward - 28-May-2010						
Measured At Ring No.	28									
Sag (mm)	20			-						
Percent Sag	Z									
Sidewall		8	N	@ cl Inward - 28-May-2010						
Measured Span (mm)	2341			-						
Measured At Ring No.				Inward - 28-May-2010						
Deflection (mm)	59			-						
Percent Deflection	3		_							
Floor	1	N	N	Under ice						
Bulge (mm)				-						
Measured At Ring No.				_						
Abrasion (Y/N)										
Circumferential Seams		9	N							
Separation (mm)										
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							
Corrosion By Soil (Y/N)	No	8								
Corrosion By Water (Y/N)				1						
	Yes									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

78172 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2400, Type: MP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		8	8							
Baffle		Х	X							
(Туре : )										
Waterway Adequacy		8	8							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel Extension General Ratin	ng	8	N	GR 8 - May 28-2010						
		Dric		lvert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa									
Barrel Last Accessible Date	28-May-2010		,0.10	Unable to access						
	20 Widy-2010			0.673m ice to crown.						
Special Features										
Special Feature										
(Туре : )										
Special Feature										
(Туре : )										
Roof		5	N	Measured near CL.						
Measured Rise (mm)	2284									
Measured At Ring No.				Upward- appears over compacted - 28-May-2010						
Sag (mm)	58									
Percent Sag	3		-							
Sidewall		6	N	Measured near CL.						
Measured Span (mm)	1977			Inward-appears over compacted 28-May-2010						
Measured At Ring No.										
Deflection (mm)	42			-						
Percent Deflection	2		-							
Floor		N	N							
Bulge (mm)	0			-						
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		5	N							
Separation (mm)	220	X	_							
Longitudinal Seams			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		4	N	Pitting & scaling rust on lower 1/3.						
Corrosion By Soil (Y/N)	No			Rusting @ seams - 28-May-2010						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, S	pan (mm	): 2019	), Rise (mm): 2226, Type: MPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Туре : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	N	GR '5' may 28, 2010.
		D	ownst	ream End
Culvert Component			Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall			X	
Bevel End	I	9	N	Covered in ice.
Heaving (mm)	0			
Invert Above/Below Stream Bed ABOVE				-
Above/Below (mm)	600			
Scour Protection		9	N	Snow covered.
(Type : <b>RIP RAP</b> )				-
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		9	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Ratir	ng	9	9	GR carried fwd from 28-May-2010.
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		5	5	Channel enters culvert at 45 deg. angle.
Bank Stability			7	Banks sloughing at d/s.
-				HWM not visible.
HWM (m below Top of Culvert) Drift (Y/N)	No			
Channel Bottom	DEGRADING			
Degrading/Aggrading				-
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			-
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

					Mainter	nance Recommen	dations						
Inspector Recommendations			Year Inspector Comments				Department Comments					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													
Structural Condition Rating (Last/Now)			) 55.6/55.6 Sufficiency Rating (Last/N			ig (Last/Now)	70.1/70.2 Est. Repl. Yr 2			2028	Maint. Reqd. (Y/N) No		No
(%)			(%)										
Special Comments for Next Inspection As per Steve Pasquan if th included on one 'Bridge Cu was a 'Bridge culvert Barre 28-May-2010			lvert Barr	el' part of	the Inspection form	n. As before there	Department Comments						
Maintenance Rev	ewed By						Date			E	Estimated Tota	0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Brian		Brian Pientsch			Previous	Previous Assistant's Name Lisbeth Medina			a				
Next Inspection Date 11-O		11-Oct-2013				Previous	Previous Inspection Date 28-May-2010						
Inspection Cycle (Default) (months) 21		21											
Comment													