				Bridg	e Culve	rt Inspection							
Bridge File Numbe	r 09840	09840 -1 Bridge Culvert				Form Ty			CUL1				
Year Built	1963	1963				Lot No.			2				
Bridge or Town Na	me LAC LA	A BICHE				Inspector Name		Wade Nanninga					
Located Over		TARY TO LAC I RCRS-ST	LA BICHE	5, 8.11	.55.9.8,	Inspector Class		BR CLS B					
Located On	881:18	C1 12.095				Assista	nt Name						
Water Body CI./Ye	ar					Assistant Class							
Navigabil. Cl./Year						Inspection Date		10-Sep-2010	- 4 -				
Legal Land Location	n NE SE	C 6 TWP 67 RG	GE 12 W4	M		Data Entry By		Theresa Lacus	sta				
Longitude, Latitude	ə -111:49	9:15, 54:46:31				Reviewer Name		05-Oct-2010					
Road Authority	Alberta	Transportation	(AIT)			Review Date		Amoid Assemeimer					
Contract Main. Are	a CMA08	CMA08				Dept. Revi			Brent Herrick				
Clear Roadway/Sk	/Skew 9.5 / 35 deg. (RHF)				Dept. Review Date								
AADT/Year	1,490 /	2009 (A)			Follow-Up By								
Road Classification	n RCU-2	09-110											
Detour Length (km	Detour Length (km) 5												
Bridge Culvert Information													
Number of Culverts	S .	1	(_								
Pipe # Bai	rrel	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MA	AN .	2019	2226		SPE		30.5		152X51	3.0	ELLIPSE		
Special Features													
Special Features C	Comment												
				1 1+;	ilitios <i>(</i> I	ocated	at)						
Utility Attachments				01		ocarcu	aty						
Telephone in South ditch. Gas													
Power 3	lines OH 15	OH 15 m North of c/l.					Municipal						
Others						Problem (Y/N) No							
Remarks file tag installed AT South end.													
Approach Road / Embankment													
			Last	Now	Explanation of Condition								
Horizontal Alignment			5	5	Pipe loo	Limited sight distance. Roadway superelevated over pipe. No							
Vertical Alignment			7	7	passing both directions.					pipe. No			
Readius: Width (m) 0.500													
Roadway Width (II	1)	9.500											
Embankment				8	8								
Sideslope (:1) 2.0					_								
(Height of Cover	(m) : 1.8)												
Guardrail (Y/N)		No											
Approach Road /	Embankme	ent General Rat	ing	5	5								
					Upotro	om End							
Culvert Compone	nt			Last	Now	Explan	ation of	Condi	tion				
Direction	<u></u>			E		South		Contai					
End Treatment (Co Others, None)	End Treatment (Concrete, Steel, STEEL Others, None)			_									
Headwall				X	Х								
Collar			X	Х									
Wingwalls					1								
Wingwalls				X	Х								

Alberta Transportation

	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
Cutoff Wall		X	X								
Bevel End			5	Bevel bent.							
Heaving (mm)	Heaving (mm) 250										
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	300										
Scour Protection		4 4		Sparce rock riprap.							
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 200)											
Scour/Erosion			4	Scour around bevel							
Beavers (Y/N)	avers (Y/N) Yes			Over inlet							
Upstream End General Rating		4	4								
		Bric	dge Cu	Ivert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SPE)							
Barrel Last Accessible Date	10-Sep-2010										
Special Features											
Special Feature											
(Type :)											
Special Feature											
(Type :)											
Roof		6	5								
Measured Rise (mm)	2120										
Measured At Ring No.	3										
Sag (mm)	120										
Percent Sag	5										
Sidewall	•	6	6								
Measured Span (mm)	2085										
Measured At Ring No.	3										
Deflection (mm)	66										
Percent Deflection	3										
Floor	1	N	N	No bulges felt, under 0.6m water.							
Bulge (mm)	0										
Measured At Ring No.				Rocks in barrel floor.							
Abrasion (Y/N)											
Circumferential Seams		7	4	Missing 2 nuts at R5							
Separation (mm)	0										
Longitudinal Seams		5	5	(1st longitudial seam has 8 loose nuts @ 2 o'clock. 2000/10/17)							
Total No. of Cracked Rings	0			First two spectrons on North and does not have longitudinal stagger							
Total No. of Rings with Two Cracked Seams				the rest does.							
Min. Remaining Steel Between Cracks (mm)				Lower 2 rows of bolts under water.							
Proper Lap (Y/N) No											
Longitudinal Stagger (Y/N) No											
Coating		4	5	Superficial rust / scaling lower 1/2.							
Corrosion By Soil (Y/N)	Yes		-								
Corrosion By Water (Y/N)	Yes										
Camber POS/ZERO/NEG	ZERO										
	-										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

09840 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 2019	, Rise (mm): 2226, Type: SPE)					
Ponding (Y/N)	Yes			Est 400mm.					
Fish Passage Adequacy	Fish Passage Adequacy		4	Beaver dam/heaving @ u/s end.					
Baffle			Х						
(Type:)									
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		5	5						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W		North					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		Х	Х						
Wingwalls		X	Х						
(Shape:)									
Cutoff Wall			Х						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	200								
Scour Protection		4	4	Erosion adjacent to bevel end. Bevel projects approx 2m from					
(Type : NONE)				embankment, perched.					
(Avg. Rock Size(mm) :)									
Scour/Erosion		4	4						
Beavers (Y/N)	No								
Downstream End General Ration	ng	4	4						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6						
Bank Stability			7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes			Tree trunks in U/S channel.					
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			6						

Maintenance Recommendations											
Inspector Recommendations Y		Year	Inspector Comments		Department Cor	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	6										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION		2010	Tighten/install missing 2 bolts.								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		55.6/55.	5.6/55.6 Sufficiency Rating (Last/ (%)		6.2/49.6	Est. Repl. Yr	2024	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By				Date	Estimated Total 0						
Proposed Long-Term Strategy							· ·		·		
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Dave Lam			P	revious A	Assistant's Name						
Next Inspection Date 10-De		0-Dec-2013 F			evious Inspection Date 12-Jun-2007						
Inspection Cycle (Default) (months) 39											
Comment											