					Brido	e Culve	ert Inspe	ection					
Bridge File Num	ber	00198 -1 Bridge Culvert					Form T			CUL1			
Year Built		1999					Lot No.			4			
Bridge or Town Name FORT SASK							Inspect	or Name		Shane Hall			
Located Over		TRIBUT	ARY TO NOR		ATCHEWAN		Inspector Class			BR CLS A			
			6.71, WATER	CRS-ST			Assistant Name						
Located On		15:04 C	1 0.260				Assistant Class						
Water Body CI./							Inspection Date		13-Dec-2011				
Navigabil. Cl./Year					/ 4 N A		Data Entry By		Theresa Lacusta				
Legal Land Location NW SEC 26 TWP 54 RGE 23 W				41/1		Data Entry Date		29-Jan-2012					
Longitude, Latitude-113:17:31, 53:42:02Road AuthorityAlberta Transportation (AIT)						Reviewer Name		Eric Carcoux					
Contract Main. Area CMA09							Review Date		19-Jan-2012				
							Dept. Reviewer Name		Brent Herrick				
AADT/Year	Clear Roadway/Skew 13.5 / ADT/Year 8,790 / 2010 (A)					-		Dept. Review Date		02-Feb-2012			
Road Classificat	tion	RAU-21					Follow-	Uр Ву					
Detour Length (I		3	0.4 120				-						
Bridge Culvert	,	-											
Number of Culve			1										
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 [MAIN		-	3360		SP		74.4		152X51	3.0	ROUND	
Special Features	s											·	
Special Features	s Comr	nent											
	-1-				Ut	ilities (L	ocated	at)					
Utility Attachmer		N/oot r/					Cas						
Telephone		& West r/w. Gas As West r/w. Municipal Waterline 80m East											
Power							Municipal Waterline 80m East Problem (Y/N) No						
Others File tag U/S end (W). Remarks													
Remains				Ap	proa	ch Road	d / Emba	ankment					
						Now	1	ation of		ion			
Horizontal Aligni	ment		·		7	7	Driveway directly North.						
Vertical Alignme	ent				6	6	Located in slight sag. No passing northbound.						
						On the East side there			s over pipe in East sideslopes, grassed. s is a 3:1 sideslope followed by a 6:1 berm and at the culvert D/S bevel end.				
Deedwey Width (m)		13.500				ended with a 1:1 slope at the culvert D/S bevel end.							
Roadway Width	(11)		13.500										
Embankment					5	5	Slight e	rosion ch	nannels	over pipe in E	ast sideslopes	, grassed.	
Sideslope (:	:1)		3.0							is a 3:1 sideslo at the culvert D		a 6:1 berm and	
(Height of Cov	ver(m) :	8.5)					(Erosio	n gully @	SE fro	om ditch runoff.	-photo-16-Mar	-2010)	
	ardrail (Y/N) Yes						West side only. Appears to be grassed and stable.						
Guardrail (Y/N)						6							
Guardrail (Y/N) Approach Road	d / Emb	bankmer	nt General Rat	ting	6	0							
. ,	d / Emt	bankmer	nt General Rat	ting	6		am End						
Approach Road		bankmer	nt General Rat		Last			ation of	Condit	ion			
Approach Road	nent				-	Upstre			Condi	ion			
Approach Road	nent				Last	Upstre			Condi	ion			
Approach Road Culvert Compo Direction End Treatment (Others, None)	nent				Last W	Upstre Now			Condi	ion			
Approach Road Culvert Compo Direction End Treatment (Others, None) Headwall	nent				Last W	Upstre Now 8			Condi	ion			

Alberta Transportation

Upstream End										
Culvert Component	Last	Now	Explanation of Condition							
Cutoff Wall		N	N							
Bevel End			8							
Heaving (mm)	0	8	Ū							
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	1000			-						
	1000	0	0							
Scour Protection		8	8							
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 350)		0	0							
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Upstream End General Rating		8	8							
		Brid	dae Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 3360, Type: SP)						
Barrel Last Accessible Date	16-Sep-2006			Viewed from ends, looks good. Could not access due to unsafe ice.						
Special Features			_							
Special Feature				_						
(Type :)										
Special Feature										
(Type :)										
Roof			N	Could not measure due to ice on floor.						
Measured Rise (mm)	3385			Rating based on visula inspection fom ends.						
Measured At Ring No.	3									
Sag (mm)	25									
Percent Sag	1									
Sidewall		8	N	(Near centerline at ring #9, 3371mm span, 0.3%. 16/Sept/2006)						
Measured Span (mm)	3293			(Could not reach ring #9 due to yielding silt & deep flow.						
Measured At Ring No.				Ring #7 - 335816-Mar-2010)						
Deflection (mm)										
Percent Deflection				-						
		NI	N	Covered with water and silt approv 700mm at 11/0. Cost 40, 2000						
Floor	0	N	N	Covered with water and silt approx 700mm at U/SSept 16, 2006 Covered with ice.						
Bulge (mm)	0			-						
Measured At Ring No.	Na			-						
Abrasion (Y/N)	No	• •	•••							
Circumferential Seams	0	N	N	-						
Separation (mm)	0									
Longitudinal Seams	-	N	N	-						
Total No. of Cracked Rings	0			-						
Total No. of Rings with Two Cracked Seams				1N						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
Coating		7	7							
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)

00198 -1 Bridge Culvert

		Brid	lge Cu	Ivert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca t	tion Code: MAIN, Spa			, Rise (mm): 3360, Type: SP)						
Ponding (Y/N)	Yes			Standing water in barrel, 1.5m at D/S.						
Fish Passage Adequacy		6	6							
Baffle		N	N							
(Type :)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	Yes									
Barrel General Rating		N	N	GR was 8-Sept 16,2006						
J			ownetr	ream End						
Culvert Component			Now	Explanation of Condition						
Direction		E								
End Treatment (Concrete, Steel, Others, None)	NONE									
Headwall		X	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		X	X							
		ļ								
Bevel End		X	X							
Heaving (mm)	100									
Invert Above/Below Stream Bed				-						
Above/Below (mm)	250		1							
Scour Protection		5	5							
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 500)			-							
Scour/Erosion		5	5							
Beavers (Y/N)	No									
Downstream End General Ratir	ng	5	5							
		1	1	re Usage						
Channel (U/S and D/S)		Last	Now	Explanation of Condition						
Alignment		7	7	Concrete bridge 7.0 m U/S and a SPCSP downstream.						
Bank Stability		7	7							
HWM (m below Top of Culvert)										
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		7	7							

			Maintenance Re	ecommend	ations					
Inspector Recommendations	Year	Inspec	tor Comments		Department Cor	nments	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) 55.6/	55.6/55.6 Sufficiency Rating (La (%)		Now) (61.4/61.4	Est. Repl. Yr	2050	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By		Date Estimated Total 0								
Proposed Long-Term Strategy							, i			
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Previous /	Assistant's Name								
Next Inspection Date	13-Sep-2013	3		nspection Date 16-Mar-2010						
Inspection Cycle (Default) (months) 21										
Comment										