Bridge Culvert Inspection													
Bridge File Number 13654 -		54 -1 Bridge Culvert				Form Type		CUL1					
Year Built 1953							Lot No.			4			
Bridge or Town Name CHIP LA			_AKE				Inspector Name			Todd Warshawski			
Located Over TRIBUT		BUTA	UTARY TO LITTLE BRULE CK,				Inspector Class		BR CLS B				
Located On	16.1	1.04.3 18 1	1 30 528				Assistant Name						
Water Body CL/Vear							Assistant Class						
Navigabil CL/Voor							Inspect	ion Date		16-Aug-2012			
Legal Land Loca	ation SW	SEC	35 TWP 53 R	GE 11 W	/5M		Data E	ntry By		Theresa Lacus	ta		
Legal Land Location SW SEC		5:31:1	1:12 53:37:09					Data Entry Date		28-Aug-2012			
Road Authority Alberta		erta T	a Transportation (AIT)					Reviewer Name					
Contract Main, Area CMA12		A12	2					Review Date		24-Aug-2012			
Clear Roadway	/Skew 11.2	2 /	-					Dept. Reviewer Name		Brent Herrick			
AADT/Year	6,23	30 / 20	30 / 2011 (A)					Dept. Review Date		30-Aug-2012			
Road Classifica	tion RAI	D-412	12.4-120				Follow-Up By						
Detour Length (km) 1												
Bridge Culvert Information													
Number of Culv	erts	1											
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-		1810		SP		45.7		152X51	3.0	ROUND	
Special Feature	S												
Special Features Comment													
Utility Attachme	nts				01	inties (E	ocaleu	atj					
Telephone Gas 50m East													
Power 2 wires OH 200m NW.					Municipal								
Others	Others Monitoring well in South lane.					Problem (Y/N) No							
Remarks BF tag on u/s bevel.													
				Α	pproa	ch Road	l / Emba	ankment					
					Last	Now	Explanation of Condition						
Horizontal Alignment					6	6	Residence access 50m West.						
Vertical Alignment				8		8	West.	West.					
Roadway Width (m)			11.200				WBL.						
Embankment				7 7			4:1 on N side.						
Sideslope (:1)			2.5										
(Height of Cov	ver(m) : 6)												
Guardrail (Y/N)			Yes			South side only.							
Approach Roa	d / Embank	ment	t General Rati	ing	6	6							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of	Condit	ion			
Direction			S										
End Treatment (Concrete, Steel, STEEL Others, None)			-										
Headwall		X	X										
Collar			X	Х									
Wingwalls			X	X									
(Shape :)													
Cutoff Wall					X	Х							

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		1	Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		6	5	Fill settled 700mm.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	5	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	5	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1. Primary Span. Locat	tion Code: MAIN. Sr	an (mm):	. Rise (mm): 1810. Type: SP)
Barrel Last Accessible Date	16-Aug-2012		.,-	
	10 / 10 2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		6	6	
Measured Rise (mm)	1724			
Measured At Ring No.	8			
Sag (mm)	86			
Percent Sag	5			
Sidewall		6	6	Puncture hole in West sidewall from construction, small crack 50mm
Measured Span (mm)	1859			long @ R7 (not at a seam).
Measured At Ring No.	8			-
Deflection (mm)	49			
Percent Deflection	3			-
Floor		4	4	Extensive corrosion and pitting with isolated perforations in rings 1-3.
Bulae (mm)	0			Free free free free free free free free
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	-	7	7	
Separation (mm)	0		-	
Longitudinal Seams	, č	7	7	
Total No. of Cracked Rings	0		1	
Total No. of Rings with Two Cracked Seams	-			
Min. Remaining Steel Between Cracks (mm)				1N stagger
Proper Lap (Y/N)	No			1
Longitudinal Stagger (Y/N)	Yes			1
Coating		5	4	Pitting bottom 1/4.
Corrosion By Soil (Y/N)	No			Perforations in floor rings 1-3.
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	1	Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 1810, Type: SP)
Fish Passage Adequacy			5	
Baffle			Х	
(Туре :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating			6	
		D	ownsti	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		_
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall			X	
Bevel End			6	
Heaving (mm) 0				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm) 200				
Scour Protection		4	4	Scour around bevel 1.5m x 1m x 1m.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			4	Scour hole at D/S end. 1.0 x 3.0 x 12 m long. Bevel unsupported for 1.5m.
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			5	90 degree bend sharp 10 m D/S from end of pipe.
Bank Stability			5	Vertical banks. Scour hole at D/S end. 1.0 x 3.0 x 12 m long.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N) No				
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 :	NONE)			1
Channel General Rating			5	

Maintenance Recommendations											
Inspector Recommendations		Inspector Comments		Department Comm	nents	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC)FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 66.7/66	5.7 Sufficiency Rating (Last/No. (%)	ow) 6	4.7/63.6	Est. Repl. Yr 2020		Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection	n floor. utlet.			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	Todd Warshaw	odd Warshawski Previous A			Assistant's Name						
Next Inspection Date	6-May-2014 Prev			us Inspection Date 16-Sep-2010							
Inspection Cycle (Default) (months) 21											
Comment											