Bridge Culvert Inspection													
Bridge File Number 71887 -1 Bridge Culvert							Form Type		CULM				
Year Built 1952							Lot No.		5				
Bridge or Town Name CHIP LAKE							Inspector Name		Todd Warshawski				
Located Over TRIBUTARY TO LOBSTICK					CK RIVER,			Inspector Class		BR CLS B			
Located On	35 375				Assistant Name								
Water Body CL	00.010	-				Assistant Class							
Navigabil, CL/Y	/ear						Inspection Date			16-Aug-2012			
Legal Land Loc	ation SV	N SEC	32 TWP 53 R	GE 10 W	5M		Data Er			Theresa Lacusta			
Longitude, Latitude -115:26			56, 53:37:04				Data Er	ntry Date		28-Aug-2012			
Road Authority Alberta			ransportation			Review Date			24 Aug 2012				
Contract Main. Area CMA12		MA12				Dept Reviewer Name		24-Aug-2012 Brent Herrick					
Clear Roadway	/Skew 11	.2 /					Dept. Reviewer Name			30-Aug-2012			
AADT/Year	6,2	230 / 2	011 (A)				Follow-	Up By	<i>,</i>	00 //dg 2012			
Road Classifica	ation RA	AD-412	2.4-120					0 0 0					
Detour Length ((km) 1												
Bridge Culvert	Informati	on											
Number of Culv	verts	2	2										
Pipe #	Barrel	5	Span	Rise (or I	or Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-		1830		SP		26.2		152X51	3.0	ROUND	
2	MAIN	-		1830		SP		26.2		152X51	3.0	ROUND	
Special Feature	es												
Special Feature	es Commei	nt											
					1 1+;	ilitios (l	ocated	at)					
Litility Attachme	onts				011	inties (E		aty					
Telephone	elephone North sideslope												
Power	1 wire No	orth r/w	V.				Municip	al					
Others							Problen	n (Y/N)	lo				
Remarks BF tag on u/s end of West pipe.													
				Ар	proad	ch Road	l / Emba	nkment					
						Now	Explana	ation of Co	ondit	ion			
Horizontal Align	nment				7	7	LR int. 100m West. Local road intersection.						
Vertical Alignme	ent				8	8							
Roadway Width	n (m)		11.200				WBL						
Embankment					6	6	North sideslope 3:1.						
Sideslope (.:1)		2.0				South sideslope 2:1.						
(Height of Co	ver(m) : 1.	5)											
Guardrail (Y/N)			Yes				1 rotten post NW - photo #1. 3 sections with minor strike damage, still functional.						
Approach Roa	d / Emban	nkmen	t General Rat	ing	7	7							
						Unstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of Co	ondit	ion			
(Pipe # : 1, Sp a	an Type: F	Primar	y Span)				· •						
Direction					S		East pipe.						
End Treatment (Concrete, Steel, NONE													
Headwall				Х	Х								
Collar				Х	Х								
Wingwalls					Х	Х							
(Chana)													

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		Х	Х	Bevel has been removed, was torch cut.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		5	5	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	Yes			Beaver dam across inlet 400mm high.
Upstream End General Rating	1	5	5	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1830, Type: SP)
Barrel Last Accessible Date	13-Sep-2010			Only accessible for 4 rings on d/s.
Special Features	1			
Special Feature				
(Туре :)			1	
Special Feature				
(Туре :)				
Roof		6	N	
Measured Rise (mm)	1735			
Measured At Ring No.	8			
Sag (mm)	95			
Percent Sag	5			
Sidewall		6	N	
Measured Span (mm)	1897			
Measured At Ring No.	8			
Deflection (mm)	67			
Percent Deflection	4			
Floor		6	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	0			
Longitudinal Seams		6	N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				1N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

71887 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 1830, Type: SP)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	Yes			Due to d/s channel constriction.						
Fish Passage Adequacy			5							
Baffle		Х	Х							
(Type :)		1								
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	Yes									
Barrel General Rating		6	N	Previous from 2010 was '6'.						
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)									
	OTEEL	N		East pipe.						
End Treatment (Concrete, Steel, Others, None)	SIEEL									
Headwall			X							
Collar	Collar									
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		X	X							
Bevel End	I	5	5							
Heaving (mm)	400									
Invert Above/Below Stream Bed	BELOW			-						
Above/Below (mm)	300									
Scour Protection		4	4	Scour along side pipe x 2m.						
(Type : NONE)										
(Avg. Rock Size(mm) :)										
Scour/Erosion	I	4	4	Loss of fill around bevel end. Grassed.						
Beavers (Y/N)	Yes			Beaver dam 30m d/s.						
Downstream End General Ratio	ng	4	4							
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		S		West pipe.						
End Treatment (Concrete, Steel, Others, None)	NONE									
Headwall		X	Х							
Collar		X	X							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		X	Х							

Alberta Transportation

	1		Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Bevel End		X	Х	Bevel has been removed by a torch.				
Heaving (mm)	200							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	150							
Scour Protection		4	5					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		4	5					
Beavers (Y/N)	Yes			Small dam at inlet				
Upstream End General Rating		4	5					
		-						
		Bri	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (I	mm):	, Rise (mm): 1830, Type: SP)				
Barrel Last Accessible Date	16-Aug-2012							
Special Features								
Special Feature								
(Type .)								
(Type.)		0	0					
Root	4700	6	6					
Measured Rise (mm)	1762			-				
Measured At Ring No.	4			-				
Sag (mm)	68			-				
Percent Sag	4							
Sidewall		6	6					
Measured Span (mm)	1870			-				
Measured At Ring No.	4			-				
Deflection (mm)	40			-				
Percent Deflection	2							
Floor		6	N					
Bulge (mm)	0			-				
Measured At Ring No.	4			-				
Abrasion (Y/N)	No							
Circumferential Seams		6	6					
Separation (mm)	0							
Longitudinal Seams	1	6	6					
Total No. of Cracked Rings	0			-				
Total No. of Rings with Two Cracked Seams				1N stagger				
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N) No								
Longitudinal Stagger (Y/N) Yes								
Coating		5	5					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1830, Type: SP)				
Ponding (Y/N)	Yes							
Fish Passage Adequacy		5	5					
Baffle		X	X					
(Type :)								
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	Yes							
Barrel General Rating		6	6					
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		N		West barrel.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		X	X					
Wingwalls		X	X					
(Shape :)		,						
Cutoff Wall		X	X					
Bevel End		4	4	Protruding from fill 1m west side. Damaged - photo #3.				
Heaving (mm)	200							
Invert Above/Below Stream Bed	ABOVE			_				
Above/Below (mm)	100							
Scour Protection		4	4	Void NW side of bevel end.				
(Type : NONE)				-				
(Avg. Rock Size(mm) :)								
Scour/Erosion		4	4	Scour hole off of D/S end, 1.0 m x 10.0 m x 10.0 m.				
Beavers (Y/N)	Yes			Beaver dam 30m d/s.				
Downstream End General Ratin	ng	4	4					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)			-					
Alignment		5	5	U/S 90 degree bend, 30m from inlets.				
Bank Stability		5	5	Vertical banks u/s.				
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes							
Channel Bottom Degrading/Aggrading	Channel Bottom NONE Degrading/Aggrading			-				
Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :	NONE)			-				
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		5	5					

Maintenance Recommendations												
Inspector Recomm	nendations		Year	Inspecto	r Comments		Department Com	iments		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			2013	Remove	dam U/S and debris							
OTHER ACTION			2013	Replace rotten guardrail post.								
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			66.7/66.	7	Sufficiency Rating (Last/Now) (%)		59.3/60.1 Est. Repl. Yr 2020		2020	Maint. Reqd. (Y/N		Yes
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By							Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program	m (Y/N)											
Proposed Action												
Previous Inspector's Name Todd			Varshaws	ski		Previous	Assistant's Name					
Next Inspection Date 16-M		16-Ma	/-2014			Previous	Is Inspection Date 13-Sep-2010					
Inspection Cycle (Default) (months) 21		21				·						
Comment												