Bridge Culvert Inspection													
Bridge File Number 73559 -1 Bridge Culvert			rt			Form Type		CULM					
Year Built	Built 1962							Lot No.		2			
Bridge or Town Name CHRISHOLM							Inspector Name		Todd Warshawski				
Located Over TRIBUTARY TO CHISHOLM CF				REEK,		Inspector Class		BR CLS B					
Located On	0. 44	4·04 C	1, WATERCR	5-51			Assistant Name						
Water Body CL	/Year						Assistant Class						
Navigabil CL/Y	ear						Inspection Date		16-Apr-2013				
Legal Land Location SE SEC 14 TWP 68 RGE 1 WF					Λ		Data Er	ntry By		Theresa Lacus	ta		
Longitude, Latitude -114:02:2			:21. 54:53:11				Data Er	ntry Date		23-Apr-2013			
Road Authority Alberta		ta Transportation (AIT)					Review Date 21-Apr-2013						
Contract Main. Area CMA10		0					Date		ZI-API-2013 Bront Harriak				
Clear Roadway	/Skew 1	1.4 / 1	5 deg. (RHF)				Dept. Review Date						
AADT/Year	1,	,900 / :	/ 2012 (A)					Dept. Review Date		01-1viay-2013			
Road Classifica	tion R	RAU-21	0-110				1 01000-	ор ву					
Detour Length ((km) 20	0											
Bridge Culvert	Informat	tion											
Number of Culv	verts		2										
Pipe #	Barrel	Span Rise (or D			Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2019	2226	226 SPE			32.9		152X51	2.8	ELLIPSE	
2	MAIN		-	900		MP		32.9				ROUND	
Special Feature	es												
Special Feature	es Comme	ent	900 CSP not fo	ound, assu	med t	o be su	bmergec	1.					
					+i	lities (l	ocated	at)					
Utility Attachme	ents				ou		ocated	atj					
Telephone	West r/w	N.			Gas								
Power	2 wires \	West &	& East r/w.				Municip	al					
Others							Problen	n (Y/N)	lo				
Remarks BF tag at crown on u/s end.													
Ap						h Road	d / Emba	Inkment					
					Last	Now	Explan	Explanation of Condition					
Horizontal Aligr	nment				7	7	Entrance to North & South. VC North.						
Vertical Alignme	ent				8	8							
Roadway Width	n (m)		11.400										
Embankment					8	8							
Sideslope (<u>.</u> :1)		4.0										
(Height of Co	ver(m) : 1 .	.5)											
Guardrail (Y/N)			No										
Approach Roa	d / Emba	nkmei	nt General Rat	ing	7	7							
				1		Upstrea	am End						
Culvert Compo	onent				Last	Now	Explanation of Condition						
(Pipe # : 1, Sp a	an Type:	Prima	ry Span)										
Direction					E		South pipe.						
End Treatment Others, None)	(Concrete	e, Stee	I, STEEL										
Headwall					Х	X							
Collar	Collar			Х	Х								
Wingwalls													
Wingwalls					Х	X							

Bridge Inspection & Maintenance System (Web 2005)

73559 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	Х	
Bevel End		5	5	Torn from drift removal SE corner.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0			
Scour Protection		5	5	Settlement along sides of bevel 150-300mm.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			5	
Beavers (Y/N)	Yes			Debris at inlet
Upstream End General Rating		5	5	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mn	n): 2019	, Rise (mm): 2226, Type: SPE)
Barrel Last Accessible Date	16-Apr-2013			
Special Features				
Special Feature				
(Туре :)				
Special Feature				
(Туре :)				
Roof	1	7	7	Rise not measured due to ice.
Measured Rise (mm)	2245			Sag est at less than 3%.
Measured At Ring No.	8			
Sag (mm)	19			
Percent Sag	1		_	
Sidewall	1	7	7	
Measured Span (mm)	2025			
Measured At Ring No.	8			
Deflection (mm)	6			
Percent Deflection	0		-	
Floor		N	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	Lower 1/3 not rated
Separation (mm)	0			
Longitudinal Seams		N	7	Lower 1/3 not rated
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			1N Stagger
Longitudinal Stagger (Y/N)	Yes			
Coating		Ν	5	Pitting rust lower 1/310-Sep-2009
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>): 2019	, Rise (mm): 2226, Type: SPE)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	7						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	v Span)								
Direction		W		South pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar			Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		Х	X						
Bevel End		5	5	Minor dents from debris removal.					
Heaving (mm)	50								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		5	5						
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		Е		North pipe					
End Treatment (Concrete, Steel, Others, None)	STEEL			Submerged not visible					
Headwall		Х	Х						
Collar		Х	X						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		Х	X						

Upstream End									
Culvert Component		Last Now		Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		N	N	Perforated on NE side10-Sep-2009					
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		N	N						
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Upstream End General Rating	1	3	3	GR carried forward from 10-Sep-2009					
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (I	mm):	, Rise (mm): 900, Type: MP)					
Barrel Last Accessible Date	08-Jun-2004			Submerged.					
Special Features									
Special Feature									
Special Feature				-					
(Type .)		N	N	No ovident problems 10 Sep 2000					
Massured Diss (mm)		IN	IN						
Measured At Ding No.		_		-					
Measured At Ring No.	0			-					
Sag (mm)	0			-					
		N	N	Wall breaks apart when hit with hammer10-Sep-2009					
Measured Span (mm)									
Measured At Ring No.				-					
Deflection (mm)		_		-					
Floor		N	N	-					
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N)	INO								
Circumferential Seams		N	N	-					
Separation (mm)	0								
Longitudinal Seams	1	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	N	50mm dia. perforations in floor and sidewall. photo-10-Sep-2009					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 900, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			N						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		6	N						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		2	2	GR carried fwd from 10-Sep-2009					
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		W		North pipe					
End Treatment (Concrete, Steel, Others, None)	STEEL			Submerged - not visible					
Headwall	·	Х	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End			N	Perforated from corrosion10-Sep-2009					
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection			N						
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Ration	ıg	2	2	GR carried fwd from 10-Sep-2009					
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		8	8						
Bank Stability		6	6						
HWM (m below Top of Culvert)				Submerged in 2011/2013					
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		6	8						

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION		2013	Remove	debris from inlet.							
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS	8											
INSTALL CONCR	ETE COLLAR/CUTC	DFF										
REPAIR SEAMS												
OTHER ACTION			2013	Conside	r abandoning 900mm CSP b	by grouting						
OTHER ACTION												
OTHER ACTION												
OTHER ACTION									_			
Structural Condition Rating (Last/Now) (%)			22.2/22.	2	Sufficiency Rating (Last/ (%)	Now)	34.1/38.4	Est. Repl. Yr	2026	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection				13 to Jeff	Department Comments							
Maintenance Rev	ewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspecto	Previous Inspector's Name Eric		Eric Carcoux				Previous Assistant's Name					
Next Inspection D	Next Inspection Date 16-		-2015			Previous	Inspection Date					
Inspection Cycle (Default) (months)	21										
Comment												