					Bridg	e Culve	ert Insp	ection							
Bridge File Number 74788 -1 Bridge Culvert			rt			Form Type			CUL1						
Year Built 1958							Lot No.			4					
Bridge or Town Name ELKWATER							Inspector Name			Tom Carey					
WATERCRS-ST					EK, 28	3.6,		Inspector Class BR CLS A							
WATERCE Located On 515:02 C1 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location SW SEC 3 Longitude, Latitude -110:04:21 Road Authority Alberta Tra Contract Main. Area CMA23 Clear Roadway/Skew 10 / AADT/Year 80 / 2011 (Road Classification RCU-209-1 Detour Length (km) 22 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Spi						Assistant Name									
		010.02	0.10.022					Assistant Class							
								tion Date		12-Mar-2012					
		SW SF	C 3 TWP 10 RC	3F 1 W4N	Λ			ntry By		Erin Roberts					
Located Over TRIBUTARY TO MACKAY CREEK, WATERCRS-ST Located On 515:02 C1 19.522 Water Body CI./Year Navigabil. CI./Year Legal Land Location Longitude, Latitude -110:04:21, 49:47:10 Road Authority Alberta Transportation (AIT) Contract Main. Area Clear Roadway/Skew 10 / AADT/Year 80 / 2011 (A) Road Classification RCU-209-110 Detour Length (km) 22 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or Dia.) Special Features Special Features Special Features Special Features							ntry Date		08-Apr-2012						
				(AIT)				ver Name		Garry Roberts					
				(,)			Review Date 24-Mar-2012								
Legal Land Location SW SEC 3 Longitude, Latitude -110:04:21, Road Authority Alberta Tra Contract Main. Area CMA23 Clear Roadway/Skew 10 / AADT/Year 80 / 2011 (/ Road Classification RCU-209-1 Detour Length (km) 22 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Spa 1 MAIN 203 Special Features Special Features Comment Utility Attachments Telephone South ditch. Power Others										Tim Davies					
			11 (A)				Dept. Review Date			17-Apr-2012					
							-Up By								
Detour Length (F	km)	22													
Bridge Culvert	Inform	ation													
Number of Culve	erts		1												
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1 [MAIN		2030	2240		SPE		34.7		152X51	3.5,3.5,3.5	ELLIPSE			
Special Features	 S			'											
		nent													
					1 14	ilities (L	ocated	at)							
Litility Attachmer	nte				O L	ilues (L	-ocaleu	at)							
	T .	ditch					Gas								
	Municipal														
								m (Y/N)	No						
							1. 100.0	(1 / 1 3 /							
				Α	pproac	ch Road	d / Emb	ankment							
					Last	Now		ation of	Condi	tion					
Horizontal Aligni	ment				9	9	Botton	of a sag.							
Vertical Alignme	ent				6	6									
Roadway Width (m) 10.800															
Embankment					N	7									
Embankment Sideslope (:1) 3.0		3.0				1									
(Height of Cover(m) : 2)															
Guardrail (Y/N)	()		No												
Approach Road	d / Emb	ankme	ent General Rat	ing	6	6									
Culvert Compo	nont				Last	Upstre Now		nation of	Candi	tion					
Direction	пепі				S	INOW	South		Contai	lion					
End Treatment ((Concre	ete, Stee	el, STEEL		3		South	GIIU							
Others, None) Headwall					Х	Х									
		X	X												
Wingwalls			X	X											
(Shape:)						1									
Cutoff Wall					Х	Х									
							1								

<u> </u>				r4700 - 1 Blidge Galvert
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	7	
		.,		
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Dei	dae Cu	heart Darrol
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN G			·
		pan (IIIII)	ij. 2030	, ruse (min). 2240, Type. SFE)
Barrel Last Accessible Date	12-Mar-2012			
Special Features				
Special Feature				
(Type:)		<u> </u>		
Special Feature				
(Type:)		<u> </u>		
Roof		7	7	
Measured Rise (mm)	2175			
Measured At Ring No.	5			
Sag (mm)	65			
	2			
Percent Sag		-		
Sidewall	 	7	7	
Measured Span (mm)	2065			
Measured At Ring No.	5			
Deflection (mm)	35			
Percent Deflection	1			
Floor		N	N	Ice covered- for 50% at D/S.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	A few bolts missing at ring 3.
Separation (mm)	0			
Longitudinal Seams		5	5	A few bolts missing at ring 3.
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			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	(Surface rust on floor)
Corrosion By Soil (Y/N)		3	J	(Canace rust off floor)
	Yes			
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): 2030, Rise (mm): 2240, Type: SPE)										
Fish Passage Adequacy		Х	X							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		7	5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N) No										
Barrel General Rating		5	5							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		N		North end						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		Х	X	Some minor bends seen.						
Bevel End		N	5	(Has tear in edge, missing bolts on floor.) 2005/10/13						
Heaving (mm)	0			Ice covered.						
Invert Above/Below Stream Bed										
Above/Below (mm) 0			1							
Scour Protection		N	8	New class 2 rock.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 600)			1							
Scour/Erosion		N	8							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	5							
		S	tructu	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7	Dugout just D/S.						
Bank Stability		N	7							
HWM (m below Top of Culvert) 0.5				[HWM 1.5m ((0.45m f.b.(top of bevel)) 02/05/30)] Grass 500mm higher than roof at U/S end at fence.						
Drift (Y/N) No				Grass Southin higher than foot at 0/3 end at lence.						
Channel Bottom Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

		Maintenance R	ecommend	lations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	6								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	Sufficiency Rating (Last/	Now)	64.5/59.7	Est. Repl. Yr	2027	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy						,			
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Tim Davies		Previous	Assistant's Name					
Next Inspection Date	12-Jun-2015		Previous	Inspection Date	12-Mar-2009				
Inspection Cycle (Default) (months)	39		<u> </u>	·					
Comment									