Bridge Culvert Inspection													
Bridge File Num	ber 13	13946 -1 Bridge Culvert						Form Type		CULM			
Year Built	19	1956					Lot No.		4				
Bridge or Town I	Name Tl	URIN					Inspect	or Name		Jason Rusu			
Located Over	LI	TTLE B T	BOW RIVER, 2	2.12.12, V	VATEF	RCRS-	Inspector Class		BR CLS A				
Located On	25	5:02 C1	51.011				Assistant Name						
Water Body Cl./Year							Assistant Class		00 Dec 2011				
Navigabil. Cl./Year							Dete Entry By		Appa Pohorta				
Legal Land Location NE SEC 3 TWP 12 RGE 19 W4N				М		Data Entry Dy		17- lan-2012					
Longitude, Latitude -112:30:34, 49:58:29						Reviewer Name		Garry Roberts					
Road Authority Alberta Tr			a Transportation (AIT)					Review Date		26-Dec-2011			
Contract Main. Area CMA25			5					Dent Reviewer Name		Tim Davies			
Clear Roadway/Skew 11.3 /							Dept. Reviewer Name		18- Jan-2012				
AADT/Year	63	30 / 201	I0 (A)				Follow-		410	10 0011 2012			
Road Classificat	tion R/	AU-211	.8-110				1 onon	000)					
Detour Length (k	km) 10)											
Bridge Culvert	Informati	ion											
Number of Culve	erts	1											
Pipe # E	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	1	820	2450		BP	49.4					RECTANGLE	
Special Features	S												
Special Features	s Comme	ent											
					+;	ilitios (l	ocated	at)					
Utility Attachmer	nts				01		ocuteu	aty					
Telephone						Gas		100 m	south				
Power							Municipal						
Others	H20 mor	onitoring station @ NE				Problem (Y/N) No							
Remarks	emarks +30m E												
				A	pproa	ch Road	l / Emba	ankment					
					Last	Now	Explanation of Condition						
Horizontal Alignr	ment				5	5	Winding	Winding road both sides. No passing allowed up hills. Vertical sag curve					
Vertical Alignme	ent				5 5		Advisory spped-85km/h						
							Delineator posts on outside of curves.						
Roadway Width	(m)		11.300										
						-							
Embankment	4		0.0		1	1	channe river 5.0	ver 5.0 m u/s.					
Sideslope (:	:1) 	7)	3.0										
Guardrail (Y/N)	er(m) . 3.	.7)	Yes										
Approach Road	d / Embar	nkment	t General Rati	ng	5	5							
						Upstrea	am End						
Culvert Component			Last Now		Explanation of Condition								
Direction					W		West e	nd, north	box.				
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall					7	7							
Collar			X	Х									
Wingwalls					6	6	Some vertical cracks and leaching						
(Shape :)						minor.							

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		N	Ν	Buried and submerged						
Bevel End		Х	Х							
Heaving (mm)	Heaving (mm) 0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm)	200									
Scour Protection	1	7	7							
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating		6	6							
		Bric	dge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 455,	Rise (mm): 2450, Type: BP, Cell Sequence: 1)						
Barrel Last Accessible Date	09-Dec-2011			N box						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof			7	1mm wide long crack						
Measured Rise (mm)	2450									
Measured At Ring No.	1									
Sag (mm)	0			1						
Percent Sag										
Sidewall		N	7	0.5 to 1.0 mm wide vert & long cracks inside walls						
Measured Span (mm)	1820									
Measured At Ring No.	1									
Deflection (mm)	0									
Percent Deflection										
Floor		N	5	70mm settlement of sect 2 of box						
Bulae (mm)	0		0							
Measured At Ring No	-									
Abrasion (Y/N)	Yes									
Circumferential Seams		N	7							
Separation (mm)	5									
Longitudinal Seams	-	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)										
		V	V							
	No	X	X							
				-						
Corrosion By Water (Y/N)	NO									
Camber POS/ZERO/NEG	ZERO									

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 455,	Rise (mm): 2450, Type: BP, Cell Sequence: 1)
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle			Х	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		Brie	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 455,	Rise (mm): 2450, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	09-Dec-2011			
Special Features				
Special Feature				_
(Type :)				-
Special Feature				-
(Type :)				
Roof		N	7	1mm wide long cracks in roof
Measured Rise (mm)	2450			-
Measured At Ring No.	1			-
Sag (mm)	0			-
Percent Sag			_	
Sidewall	1	N	7	Cracks extend from sidewall to roof
Measured Span (mm)	1820			
Measured At Ring No.	1			-
Deflection (mm)				-
Percent Deflection			_	
Floor	1	N	5	Floor drops about 100 mm where extension added in '58 at box 2, 3
Bulge (mm)	0			
Measured At Ring No.				-
Abrasion (Y/N)	Yes		-	
Circumferential Seams	-	N	7	-
Separation (mm)	5			
Longitudinal Seams		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		X	Х	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

13946 -1 Bridge Culvert

		Brid	dge Cu	vert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 455,	Rise (mm): 2450, Type: BP, Cell Sequence: 2)				
Ponding (Y/N)	No							
Fish Passage Adequacy			7					
Baffle			Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	7					
		Dric		Wert Barrol				
Culvert Component		L ast	Now	Explanation of Condition				
(Pipe # : 1. Primary Span Loca	tion Code: MAIN_Spa	n (mm): 455	Rise (mm): 2450. Type: BP. Cell Sequence: 3)				
Barrel Last Accessible Date	09-Dec-2011		,. 100,	3rd from North				
Special Features								
Special Feature								
(Type:)			1					
Special Feature								
(Type:)								
Roof		N	7					
Measured Rise (mm)	2450							
Measured At Ring No.	1							
Sag (mm)								
Percent Sag			-					
Sidewall	1	N	7	-				
Measured Span (mm)	1820							
Measured At Ring No.	1							
Deflection (mm)								
Percent Deflection			1					
Floor		N	5					
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	Yes							
Circumferential Seams		N	7					
Separation (mm)	5							
Longitudinal Seams		Х	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		Х	X					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	No							
Camber POS/ZERO/NEG	ZERO							

Bridge Inspection & Maintenance System (Web 2005)

13946 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 455,	Rise (mm): 2450, Type: BP, Cell Sequence: 3)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 455.	Rise (mm): 2450, Type: BP, Cell Sequence: 4)
Barrel Last Accessible Date	09-Dec-2011		, ,	South cell
Special Features		1	1	
Special Feature				
(Type :)		1		
Special Feature				
(Type :)		1	1	
Roof	1	N	7	
Measured Rise (mm)	2450			-
Measured At Ring No.	1			-
Sag (mm)				-
Percent Sag			1	
Sidewall		N	7	
Measured Span (mm)	1820			-
Measured At Ring No.	1			-
Deflection (mm)	0			-
	0		-	
Floor		N	5	
Bulge (mm)				-
Measured At Ring No.	N/aa			
	res		0	
Circumferential Seams	F	6	6	
	0	V	V	
Longitudinal Seams		×	X	
Total No. of Cracked Rings				
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Х	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

13946 -1 Bridge Culvert

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 455,	Rise (mm): 2450, Type: BP, Cell Sequence: 4)					
Ponding (Y/N)	No								
Fish Passage Adequacy			7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	7						
		D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	E		East end					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall	1	7	6						
Collar		X	X						
Wingwalls		6	6						
(Shape :)		0	0						
		N	N	Buried and submerged					
Bevel End	1	X	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed				-					
Above/Below (mm)	0								
Scour Protection		8	7						
				-					
(Avg. Rock Size(mm) :)		0	7						
Scour/Erosion		8	/ /						
Beavers (Y/N)	No								
Downstream End General Ration	ng	6	6						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6	Steep cut banks at d/s both sides. minor-not visible					
Bank Stability		5	5						
HWM (m below Top of Culvert)				No HWM visible					
Drift (Y/N)	No								
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			6						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comr		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/77.8	8 Sufficiency Rating (Last/No (%)	ow) 6	63.5/73.5 Est. Repl. Yr 2		2026	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Jason I	Rusu	F	revious Assistant's Name								
Next Inspection Date 09-S		-2013	F	Previous I	evious Inspection Date 06-Jun-2010							
Inspection Cycle (Default) (months)	21											
Comment												