					O u i ol or	o Culvo	art Inanas	tion					
Bridge Eile Nun	obor				<u>snag</u>	e Cuive	Form Type			CULM			
Bridge File Number 77369 -1 Bridge Culvert Year Built 1995						Lot No.			4				
Bridge or Town Name RED EARTH CR						Inspector Name			Brian Pientsch				
Located Over TRIBUTARY TO LOON RIVER,				JRIVER 8	10 1	8 12 7							
WATERCRS-ST			N KIVEK, O	IVER, 6.10.16.12.7,			Assistant Name		BR CLS A				
Located On		88:10 C	21.513				Assistant Class			Clem Guenette			
Water Body Cl.	/Year						Inspection Date			11-Jun-2012			
Navigabil. Cl./Year						Data Ent			Theresa Lacusta				
Legal Land Location NE SEC 36 TWP 89 RGE 9 W5N						Data Ent			14-Oct-2012				
Longitude, Latitude -115:17:08, 56:46:11					Reviewe			Eric Carcoux					
Road Authority Alberta Transportation (AIT)			(AIT)			Review I			08-Oct-2012				
Contract Main.	Area	CMA02							Mama				
Clear Roadway	/Skew	11.4 / -	15 deg. (LHF)				Dept. Reviewer Name Dept. Review Date			·			
AADT/Year		370 / 20	011 (A)	211 (A)				Jp By	ale.	07-Jan-2013			
Road Classifica	ition	RAU-21	10-110				1 Ollow-C	,р Бу					
Detour Length	(km)	300											
Bridge Culvert	Inform	ation											
Number of Culv	erts		2										
Pipe #	Barrel	Span Rise (or I			ia.)	Туре	L	ength		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	4143		SP	3	37.2		152X51	3.0	ROUND	
2	MAIN		-	4143		SP	3	37.2		152X51	3.0	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
								-					
Livilia Ava I	.				Uti	lities (L	_ocated a	it)					
Utility Attachme	ents								<u> </u>	o			
Telephone							Gas		Gas II	ne 25m East.			
Power	3 wire	on - 301	m East of road	CI			Municipa		NIa				
Others							Problem	(Y/IN)	No				
Remarks				Λnr	araaa	h Boos	d / Embar	kmont					
					_ast	Now	d / Embar Explana		Condi	tion			
Horizontal Align	ment				8	8	Lxpiana	1011 01 1	Jonan				
Vertical Alignme					7	8							
Roadway Width			12.000										
Troddwdy Widti			12.000										
Embankment					7	7							
Sideslope (	_:1)		4.0										
(Height of Co	ver(m) :	1.7)											
Guardrail (Y/N)			No										
Approach Roa	d / Eml	oankme	nt General Rat	ing	8	8							
						Upstre	am End						
Culvert Compo	onent			L			Explana	tion of (	Condi	tion			
(Pipe # : 1, <b>Sp</b>		e: Prima	ary Span)										
Direction					N		South pi	pe					
End Treatment Others, None)	(Concre	ete, Stee	el, CONCRETE				Tagged	-	own				
Headwall					7	7							
Collar					7	6	Narrow cracks visible.						
Wingwalls													
Wingwalls					Х	Х							

77369 -1 Bridge Culvert

			Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Span Type: Primary	/ Span)							
Cutoff Wall			N					
Bevel End			7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	800							
Scour Protection		7	7					
(Type: RIP RAP)								
(Avg. Rock Size(mm) : <b>400</b> )								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Brid	dge Cu	Ilvert Barrel				
<b>Culvert Component</b>		Last	Now					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 4143, Type: SP)				
Barrel Last Accessible Date 15-Jan-2007				(South barrel) Water & silt. Viewed from end, shape appears adequate.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		8	N	Floor ice covered no rise measured.Jan 15, 2007				
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)	0							
Percent Sag								
Sidewall		8	N	2007-01-15				
Measured Span (mm)	4090							
Measured At Ring No.	5							
Deflection (mm)	53							
Percent Deflection	1							
Floor	1	N	N	Water/silt covered.				
Bulge (mm)				_				
Measured At Ring No.								
Abrasion (Y/N)				1				
Circumferential Seams		N	N	_				
Separation (mm)	0							
Longitudinal Seams		N	N	_				
Total No. of Cracked Rings 0								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)				2N stagger				
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	Yes							
Coating		7	6	Pitting rust.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Vac							

		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı):	, Rise (mm): 4143, Type: SP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	Yes			Approx 2m ponding.				
Fish Passage Adequacy		8	8					
Baffle		Х	X					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating		N	N	GR 8 - 15-Jan-2007				
	ı			ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)	1						
Direction	I	E		South pipe				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		X	X					
Wingwalls		X	X					
(Shape: )		1						
Cutoff Wall		X	X					
Bevel End		6	6	Top of bevels being pushed inwards 50 mm on both sides.				
Heaving (mm)	75			of thin on both sides.				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	800		1					
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : <b>500</b> )			T _					
Scour/Erosion		7	7					
Beavers (Y/N)	No		_					
Downstream End General Ratio	ng	6	6					
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		W		North pipe				
End Treatment (Concrete, Steel, Others, None)								
Headwall		7	7					
Collar		7	6	Narrow cracking				
Wingwalls		X	X					
(Shape: )								
Cutoff Wall		N	N					

77369 -1 Bridge Culvert

			Upstre	am End				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	800							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	6					
		Brio	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): 4143, Type: SP)				
Barrel Last Accessible Date	15-Jan-2007			(North barrel) Water & silt over 2.0m deep. Viewed from ends, shape appears adequate.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof			N					
Measured Rise (mm)		8						
Measured At Ring No.								
Sag (mm)								
Percent Sag								
Sidewall		8	N					
Measured Span (mm)	4090			2007.04.45				
Measured At Ring No.	5			2007-01-15				
Deflection (mm)	53							
Percent Deflection	1							
Floor	·	N	N	Water/silt covered.				
Bulge (mm)		- 14	- 11	vvator/siit oovered.				
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		N	N					
Separation (mm)	0	11	111					
Longitudinal Seams	U	N	N					
	0	IN	IN					
Total No. of Cracked Rings 0  Total No. of Rings with Two								
Cracked Seams  Min. Remaining Steel								
Between Cracks (mm)	\\\			2N stagger				
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	Yes	_						
Coating		7	6	Pitting rust bottom 1/3.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							

		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 4143, Type: SP)
Ponding (Y/N) Yes				Approx 2m ponding/silting.
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	GR 8 - 15-Jan-2007
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Snan)	Lasi	INOW	Explanation of Condition
Direction	ary Opari)	Е		North pipe
End Treatment (Concrete, Steel, Others, None)	STEEL	_		INOTHI PIPE
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Cutoff Wall		X	X	
Bevel End		6	6	Top of bevel both sides are deflected
Heaving (mm)	50			inwards 50 mm.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
		9	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)			111011	
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)	2.3			Grass on collar
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			Stable Beaverdma 30m d/s.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

		Maintana	D	letions					
la caractera De comuna delicare	Year	Inspector Comments	nce Recommend				T 1 V	F-4 O4	0-1/
Inspector Recommendations		Department Com	ments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS									+
PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									_
INSTALL CONCRETE/STEEL LINING									+
INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTO	)EE								+
REPAIR SEAMS	)FF								-
OTHER ACTION									+
OTHER ACTION									+
OTHER ACTION									
OTHER ACTION									
	\	0 (1) 0 (1)	(1 (8)	07.0/00.0		0040		1 () ( ( ) ( )	
Structural Condition Rating (Last/No. (%)	ow) 55.6/55	.6 Sufficiency Rating (%)	(Last/Now)	67.3/66.3	Est. Repl. Yr	2043	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Brian Pientsch		Previous	Assistant's Name	Lisbeth Medir	na			
Next Inspection Date	11-Mar-2014		Previous	Inspection Date	04-Aug-2010				
-	21								
Comment									