					Brido	ie Culve	ert Inspe	ection					
Bridge File Number 77057 -1 Bridge Culvert				Bridg	je Guive	Form Type			CUL1				
Year Built 1969							Lot No.			1			
Bridge or Town Name BEAVERLODGE							Inspector Name		Russel Vanderschaaf				
Located Over TRIBUTARY TO BEAVERLODGE					SE RIV	/ER,	Inspector Class		BR CLS B				
		8.10.58.	18.8.1.5, WAT	ERCRS-S	ST		· ·	nt Name					
Located On		722:02 C	21 30.775					nt Class					
Water Body CI	./Year						Inspection Date			17-Jan-2013			
Navigabil. Cl./	ear_						Data Entry By			Theresa Lacusta			
Legal Land Loc	cation	NW SEC	26 TWP 71 F	RGE 10 W			ntry Date		02-Feb-2013				
Longitude, Lati	tude	-119:26:	09, 55:10:53					er Name		Eric Carcoux			
Road Authority	'	Alberta 7	Fransportation	(AIT)			Review			23-Jan-2013			
Contract Main.	Area	CMA05			Dept. Reviewer Name								
Clear Roadway	//Skew	8.7 /				Dept. Review Date		21-Mar-2013					
AADT/Year		960 / 20					Follow-Up By						
Road Classifica	ation	RCU-209	9-110			- 5							
Detour Length	(km)	6											
Bridge Culver													
Number of Cul	1	1											
Pipe #	Barrel	8	Span Rise (or l			Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	1829 1118		FP			17.1		68X13	3.5	ARCH		
Special Feature	Special Features VERT STEEL STRUTS												
Special Features Comment													
					Ut	ilities (L	Located	at)					
Utility Attachme	ents												
Telephone							Gas						
Power	1 wire	o/h Wes	t r/w				Municip						
Others							Problen	n (Y/N) N	lo				
Remarks													
				A			d / Emba						
								ation of Co					
Horizontal Alig					8	8	Passing	both direc	tions	S.			
Vertical Alignment Roadway Width (m) 8.700			8	8									
Roadway Widt	n (m)		8.700										
Embankment					7	7							
Sideslope (_	_:1)		3.0				1						
(Height of Co	•	: 1.5)					1						
Guardrail (Y/N)		,	No										
Approach Roa	ad / Emi	bankmen	⊥ t General Rat	ing	7	8							
Culvert Com	oner!				Last		Explan	otion of C	an al!	tion			
Culvert Comp Direction	onent				Last	Now		ation of Co		ered.(west)			
End Treatment	(Conor	oto Stock	STEEL				Devei e	nu is snow	COV	ereu.(WeSI)			
Others, None)	. (Concr	ete, Steer	, SIEEE										
Headwall					Х	X							
Collar					Х	Х							
Wingwalls					Х	X							
(Shape:)													
Cutoff Wall					Х	X							

77057 -1 Bridge Culvert

			Hartes	on End
Culvert Component		Last		am End Explanation of Condition
Culvert Component			Now	Explanation of Condition
Bevel End	0	7	N	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500		Ι	
Scour Protection		7	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried over from 14-May-2010
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			· •
Barrel Last Accessible Date	25-May-2004		<u>′</u>	3m into pipe measured 1940x930mm-May 25, 2004
Consist Factors				
Special Feature		7	N.	
Special Feature		7	N	
(Type: VERT STEEL STRUTS)			1	
Special Feature				
(Type:)				1
Roof	I	N	N	Roof is pushed down 200mm on east end 6.1% defl.May 25, 2004
Measured Rise (mm)				Could not access pipe due to snow cover.
Measured At Ring No.				
Sag (mm)	188			
Percent Sag	17			
Sidewall		N	N	(span x rise) Due to water in pipe
Measured Span (mm)				cannot determine if floor has buldge location.16.8% sag, but no reverse-
Measured At Ring No.				curvature, buldge may affect measurement May 25, 2004
Deflection (mm)	111			
Percent Deflection	6			
Floor		N	N	Water too deep.
Bulge (mm)	50			·
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	3.6m in from east end seperation with
Separation (mm)	80			infiltration.May 25, 2004
Longitudinal Seams		6	N	Rivetted seams.May 25, 2004
Total No. of Cracked Rings		0	IN	Invelted Scallis.iviay 25, 2004
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	Pitting rust on floor of pipe.
Corrosion By Soil (Y/N)	No	4	IN	Tricing rust of floor of pipe.
	Yes			
Corrosion By Water (Y/N) Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Brio	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1829	, Rise (mm): 1118, Type: FP)
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	GR CARRIED OVER -25-May-2004
-				ream End
Culvert Component		Last	Now	Explanation of Condition
End Treatment (Concrete, Steel, Others, None)	STEEL			(EAST)
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	N	500mm silt covers bevel end14-May-2010
Heaving (mm)	0			Snow covered
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm):)				
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	GR carried over from 14-May-2010
		\$	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	W. ditch runs into culvert 90 degrees.
Bank Stability		8	8	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	·			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

			Maintenance Recommendations	mendations				
Inspector Pocommondations	Vear		Inspector Comments	stroom Comments	staema	Target Vear	Voor Est Cost	# +60
ווואספטנטן ואפנטוווווופווממווטווא	_ B B			Department Co.		- מולט ה	T	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTOFF	OFF							
REPAIR SEAMS								
OTHER ACTION	2013		Level 2 Inspection					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	ow) 33.3/33.3	33.3	Sufficiency Rating (Last/Now) (%)	55.8/62.1	Est. Repl. Yr	2014 Ma	Maint. Reqd. (Y/N)	Yes
Special Monitor shape of barrel and circumferential seams. Pipe Comments for 3 inspections. Next Inspection Recommend a Level 2 inspection.	arrel and circul el 2 inspection	nferential se	eams. Pipe has been inaccessible for	of for Department Comments				
Maintenance Reviewed By				Date		Estimated Total	d Total 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Russel Vanderschaaf	erschaaf	Pre	Previous Assistant's Name				
Next Inspection Date	17-Oct-2014		Pre	Previous Inspection Date	14-May-2010			
Inspection Cycle (Modified) (months)	21							
Comment								

					Maintenance	Recommen	dations						
Inspector Recommendations			Year	Inspecto	or Comments		Department Cor	nmer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS												
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCE	RETE/STEEL LINING	3											
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTOFF		OFF											
REPAIR SEAMS													
OTHER ACTION		2013	Level 2	Inspection									
OTHER ACTION													
OTHER ACTION													
OTHER ACTION								,					
Structural Cond (%)	ition Rating (Last/N	low)) 33.3/33.3 Sufficiency Rating (Last/l			st/Now)	55.8/62.1	Est	. Repl. Yr	2014	Maint. R	eqd. (Y/N)	Yes
Special Comments for Next Inspection Monitor shape of barrel ar for 3 inspections. Recommend a Level 2 ins				ferential s	seams. Pipe has been in	accessible	Department Comments						
Maintenance Rev	viewed By						Date				Estimated To	al 0	
Proposed Long-T	erm Strategy												
On 3-Year Progra	am (Y/N)												
Proposed Action													
Previous Inspector's Name Russe			l Vanders	schaaf		Previous	evious Assistant's Name						
		17-Oc	t-2014		Previous	s Inspection Date 14-May-2010							
Inspection Cycle (Modified) 21 (months)		21											
Comment													