					D	- 0 -							
5 · 1 - 5'' - N	. -					Bridge Culvert Inspection			0.11.4				
Bridge File Nun		76229 -1 Bridge Culvert					Form Type		CUL1				
Year Built 1966						Lot No.			4				
Bridge or Town Name VERMILION						Inspector Name			Jason Saly				
Located Over TRAIL-ANIMAL, OVER SP					Inspector Class			BR CLS A					
Located On		41:18 C1	1 33.512		Ass			nt Name					
Water Body Cl.	/Year				Assistant Cla		nt Class						
Navigabil. Cl./Y	ear						Inspect	ion Date	28-Nov-2012				
Legal Land Loc	ation 1	NW SEC	7 TWP 48	RGE 6 W4N	Л	Ι Γ		ntry By	Marcia Chave	Marcia Chavez			
Longitude, Latit	ude -	-110:52:	57, 53:07:5	1			Data Er	ntry Date	15-Jan-2013	15-Jan-2013			
Road Authority Alberta Transportation (A			on (AIT)	(AIT)			er Name	John O'Brien	John O'Brien				
Contract Main.	Area (CMA15				Review Date			14-Dec-2012	14-Dec-2012			
Clear Roadway	/Skew /	11.8 /						eviewer Nam	e Andrew Smikl	es			
AADT/Year		1,140 / 2	2011 (A)				Dept. Review Date		17-Jan-2013				
Road Classifica	ition F	RAU-211	1.8-110				Follow-	Up Ву					
Detour Length	(km) 3	3											
Bridge Culvert		ition											
Number of Culv	erts	1	1										
Pipe #	Barrel	5	Span	Span Rise (or		Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	1778	2286		RPE		24.4	152X51	3.5	ELLIPSE		
Special Feature	es												
Special Feature	es Comm	ent											
					Ро	sting Ir	nformati	on					
Required Vert.	Clearanc	e Postin	ng (m)			<u> </u>							
Posted Vertical	Clearan	ce (Y/N)	N	lo									
Posted: Lane	EB	On B	ridge (m)	In Adv	ance (Y/N)	La	ane WB	On Bridge (m)	In Advar	nce (Y/N)		
Remarks	Not red		attlepass.		,					'			
					Uti	lities (L	ocated	at)					
Utility Attachme	ents					,		<u> </u>					
Telephone	West r/	w.					Gas						
Power	3 wires	OH, E f	ence line.				Municip	al					
Others							Problen						
Remarks													
				A	pproac	ch Road	d / Emba	nkment					
					Last	Now		ation of Cond	dition				
Horizontal Aligr	ment				7	7			rth. Local access	s 75m NW. Cre	est curves to		
Vertical Alignm					7	7	South.						
Roadway Width			11.800										
Embankment				N	N	Snow c	overed.						
Sideslope (·1)		3.0			1 1 1	J.15W 0	5.0.50.					
		1)	0.0										
(Height of Cover(m) : 1) Guardrail (Y/N) Yes					SF end	creased but f	unctional						
<u> </u>				- -									
Approach Roa	d / Emba	ankmen	t General F	katıng	7	7							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of Cond	dition				
Direction					E								
End Treatment (Concrete, Steel, Others, None)		, NONE											
Headwall													
Ticadwaii					Х	X							

76229 -1 Bridge Culvert

			Unetro	am End					
Culvert Component		Last	Now	Explanation of Condition					
Wingwalls		X	X	Explanation of Condition					
(Shape:)		<u> </u>							
Cutoff Wall		Х	X						
Cuton trun									
Bevel End		X	X	Squared end.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		N	N	(Almost vertical beside end of barrel. 16Aug2009). Snow covered.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Upstream End General Rating		N	N	GR was 7 from 16Aug2009.					
		Bri	dae Cu	lvert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa								
Barrel Last Accessible Date	28-Nov-2012		, -						
Special Features		1							
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof	1	6	6	Could not take measurements due to dirt on floor.					
Measured Rise (mm)									
Measured At Ring No.				Estimated.					
Sag (mm)									
Percent Sag	1								
Sidewall	1	6	5	2 holes on N sidewall, minor. 1 hole on S sidewall, minor. 80mm x 60mm.					
Measured Span (mm)	1770			Span at R2=1770=8mm=0.5%					
Measured At Ring No.	2			Span at R5=1784=6mm Span at R8=1772=6mm					
Deflection (mm)	8			0.5%					
Percent Deflection	1								
Floor		N	N	(Covered with dirt, concrete floor. 16Aug2009).					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams	T-	7	7						
Separation (mm)	0								
Longitudinal Seams	1	6	5	Bolts dimpling crests along lower seam. Upper seam N side, R2, 2 bolts pulling through.					
Total No. of Cracked Rings	0			- Specification of the specific points beining through.					
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		6	6						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	No								

		Brid	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1778	, Rise (mm): 2286, Type: RPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	5	
				eam End
Culvert Component			Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	Squared end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	(Almost vertical beside end of barrel. 16Aug2009). Snow covered.
(Type:)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	N	N	GR was 7 from 16Aug2009.
		S	Structur	e Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	Dirt covered.
Roadway Surface		N	N	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		Х	X	
Туре	None			
Lighting		Х	Х	
Barrel Leakage (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Drainage		N	N	(Ponds up to 50mm. 16Aug2009).				
Structure In Use (Y/N) Yes								
Grade Separation General Rating			6	GR carried forward since 16Aug2009 based on drainage rating.				

		Maintenance R	ecommen	dations					
Inspector Recommendations	Department Com	Target Year	Est. Cost	Cat #					
SHOTCRETE REPAIRS				·					
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	}								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 66.7/55	.6 Sufficiency Rating (Last	/Now)	72.8/67.9	Est. Repl. Yr	2034	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By		Date		E	Estimated Tota	1 0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)	Υ								
Proposed Action	2008.02.29 Re	view in two years time for continued ι	ısage. Brov	vnlee & Associates					
Previous Inspector's Name Jason Saly			Previous	Assistant's Name					
Next Inspection Date	28-Aug-2014		Inspection Date	07-Mar-2011					
Inspection Cycle (Default) (months)	21								
Comment									