					Brida	e Culv	art Insn	ection						
Bridge File Number 76193 -1 Bridge Culvert					Dillag	e ourve	ert Inspection Form Type			CUL1				
		1966						Lot No.		2				
			AVE LAKE				Inspector Name			Wade Nanninga				
Located Over	TRIBUTARY TO OTAUWAU RIVER,					Inspector Class			BR CLS A					
8.11.80			.80.16.1, WATERCRS-ST					ant Name						
Located On 2:46 C1 38.772							Assistant Class							
Water Body Cl./Year							Inspec	Inspection Date		28-Mar-2013				
Navigabil. Cl./Year							Data Entry By			Theresa Lacusta				
			C 14 TWP 72 RGE 4 W5M					Data Entry Date		16-Apr-2013				
			:29, 55:14:07					ver Name		Eric Carcoux				
			Transportation (AIT)					v Date		12-Apr-2013				
Contract Main. Area CMA06								Reviewer	Name	Brent Herrick				
			20 deg. (RHF)					Review Da	ate	23-Apr-2013				
			2,370 / 2012 (A)				Follow	Follow-Up By						
Road Classifica		RAU-210)-110				-							
Detour Length		200												
Bridge Culver														
Number of Cul		1		<u> </u>					Carr Drofile	PI./Slab	Chana			
Pipe #	Barrel	2	Span	Rise (or	Dia.) Type			Length		Corr. Profile	Thickness	Shape		
1	MAIN	-		1810		SP		87.8		152X51		ROUND		
Special Feature	es													
Special Feature	es Comi	ment												
-														
					Uti	lities (l	ocated	at)						
Utility Attachme							-							
Telephone	North					Gas								
Power	3 wire	es South r/		Municipal										
Others							Proble	m (Y/N)	No					
Remarks														
				А	Last			ankment		tion				
					8	8	Explanation of Condition							
Horizontal Alignment Vertical Alignment					7	7	-							
Roadway Width (m)			10.500											
				4			Cully a	boyo d/o	and					
Embankment	.1)		3.0	4	N	Gully above d/s end. 3m wide x 2m deep x 15m longphoto-13-Jul-2011								
Sideslope (12 0	3.0			Snow covered								
Guardrail (Y/N)	`	. 12.0)	Yes				GHOW	Jovereu						
			163			_								
Approach Roa	ad / Eml	bankmen	t General Rat	ing	7	7								
						Upotro	 om End							
Culvert Comp	onent				Last	Now	am End	nation of	Condi	tion				
Direction	onent				S	110 W	LAPidi		Jonal					
End Treatment	(Concre	ete. Steel	STEFI											
Others, None)														
Headwall			X	X										
Collar				X	Х									
Wingwalls				X	X									
(Shape :)														
Cutoff Wall				X	Х									

Alberta Transportation

			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		N	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	50								
Scour Protection		6	5						
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		6	5						
Beavers (Y/N)	Yes			Dam on inlet.					
Upstream End General Rating		6	5						
		Bric	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1810, Type: SP)					
Barrel Last Accessible Date	28-Mar-2013			0.8m ice/water					
Special Features			1						
Special Feature				_					
(Туре:)		1	1	_					
Special Feature				_					
(Туре :)									
Roof		N	7						
Measured Rise (mm)	1830			_					
Measured At Ring No.	22			-					
Sag (mm)	1			-					
Percent Sag	0								
Sidewall		N	7	Barrel has lateral sweep, not straight.					
Measured Span (mm)	1780								
Measured At Ring No.	22								
Deflection (mm)	49								
Percent Deflection	3								
Floor			N	Perforations in 5 rings. Cracks on longitudinal seams within floor arc.					
Bulge (mm)	0			90mm steel remaining within 105 degree ACR21-Aug-2009					
Measured At Ring No.									
Abrasion (Y/N)	Yes								
Circumferential Seams			5	4 nuts missing on roof position between ring 21 & 22.					
Separation (mm)	0								
Longitudinal Seams		N	N	Rings 18, 20, 22 & 26 have cracked East seams with ring #20 having					
Total No. of Cracked Rings	4			90mm of steel left - photo21-Aug-2009					
Total No. of Rings with Two Cracked Seams				Under ice					
Min. Remaining Steel 90 Between Cracks (mm)				1					
Proper Lap (Y/N)	No			1N Stagger					
Longitudinal Stagger (Y/N)	Yes			1					
Coating		N	N	Perforation holes found at 5 o'clock in rings 1-5 from North end. A					
Corrosion By Soil (Y/N)	No			are <1"D and below21-Aug-2009					
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	lae Cu	Ivert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 1810, Type: SP)					
Fish Passage Adequacy		4	4	300mm drop off outlet.					
Baffle		X	X						
(Туре:)		1							
Waterway Adequacy		6	6						
Icing (Y/N)			-						
Silting (Y/N) No									
Drift (Y/N)	No								
Barrel General Rating	1	6	3	GR corrected & carried fwd from 21-Aug-2009					
3									
				ream End					
Culvert Component		1	Now	Explanation of Condition					
Direction		N		-					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar	Collar								
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		X	X						
Bevel End			5						
Heaving (mm)									
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm) 300									
Scour Protection		4	4	Bevel cantilevered 1.6 m.					
(Type : NONE)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		4	4	Scour hole est 1.5 m x 10 m x 10 m.					
Beavers (Y/N)	avers (Y/N) No								
Downstream End General Ratin	ng	4	4						
		s	tructu	re Usage					
		1	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5						
Bank Stability			4	D/S bank near vertical.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) No									
Channel Bottom DEGRADING Degrading/Aggrading				Dam at inlet.					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

Alberta Transportation

Maintenance Recommendations													
Inspector Recommendations			Year Inspector Comments					Department Com	ments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP			2013										
REMOVE DRIFT	REMOVE DRIFT ACCUMULATION			Inlet									
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTOFF		DFF											
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													_
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			66.7/33.3 Sufficiency Rating (Last/ (%)		ig (Last/Now)	52	52.6/35.1 Est. Repl. Yr 20		2015	Maint. Reqd. (Y/N) Ye		Yes	
Special Comments for Next Inspection Monitor cracked rings for f Monitor scour until repaice Recommends replacemen CUlvert tentatively schedu adequate until deflects wo			nent.(Ass) ed for rep	sessment	completed 21-Mar	2001 by MPA.	•	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 Eric		Eric Carcoux			Prev	revious Assistant's Name							
Next Inspection Date 28-I		28-Dec-2014				Prev	evious Inspection Date 13-Jul-2011						
Inspection Cycle (Default) (months) 21		21											
Comment													