Bridge Culvert Inspection													
Bridge File Number 09756 -1 Bridge Culvert			~		Form T			CUL1					
Year Built							Lot No.		4				
Bridge or Town	Name	VIOLET	GROVE					tor Name		Wade Nanninga			
Located Over		1991 ne VIOLET GROVE TRIBUTARY TO RIVER, 6.143, W 620:04 C1 19.768 r  NW SEC 23 TWF -115:03:47, 53:09 Alberta Transport CMA11 w 11.8 / 1,630 / 2009 (A) RAU-211.8-110 3 rmation 1 el Span N - mment  tt & south r/w's. rires North r/w & 2 wi tag installed on top of		TH SASK	ATCH	EWAN	Inspector Class		BR CLS B				
		RIVER, 6.143, WATERCRS-ST				Assistant Name		DIC GEG B					
Located On		620:04	1 19.765			Assistant Class							
Water Body Cl./	Year						Inspec	tion Date		24-Jan-2011			
Navigabil. Cl./Ye	ear						Data Entry By		Theresa Lacusta				
Legal Land Loca	ation	NW SE	C 23 TWP 48 F	RGE 8 W5	5M			ntry Date	:	15-Feb-2011			
Longitude, Latitu	ude	-115:03	:47, 53:09:22				Reviewer Name		Arnold Assenheimer				
Road Authority		Alberta	Transportation	(AIT)			Review	/ Date		14-Feb-2011			
Contract Main. Area CMA11						Dept. Reviewer Name							
Clear Roadway/	Clear Roadway/Skew 11.8 /					Dept. Review Date		22-Feb-2011					
AADT/Year 1,630 / 20			2009 (A)				Follow			22-1 60-2011			
Road Classificat	Road Classification RAU-211.			.8-110			. Show op by						
Detour Length (I	km)	3											
<b>Bridge Culvert</b>	Inform	ation											
Number of Culve	erts		1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	3050		SP		37.2		152X51	3.0	ROUND	
Special Feature	S												
Special Feature	s Comr	ment											
					Ut	ilities (L	ocated	at)					
Utility Attachmen	T						_		1				
Telephone							Gas						
Power	6 wire	S North r/w & 2 wires 40m West.					Munici						
Others								m (Y/N)	No				
Remarks	BF tag	g installe	d on top of Nor										
				A				ankment					
III : IAE				Now	Residence access NE & SW.								
Horizontal Alignment			7	7	Reside	NOONGOTIOG GOOGGO TYE G OVV.							
Vertical Alignment				8	8								
							SW ditch gully 1.0m x 2.0m x 50m approx.						
Roadway Width	(m)		11.800	11.800									
Embankment	4)				4	4							
Sideslope (:		4 4	3.0				-						
(Height of Cov	/er(m) :	1.4)											
Guardrail (Y/N)			No										
Approach Road	d / Emb	oankmer	nt General Rat	ing	7	7							
							am End						
			Last	Now	Explan	ation of	Condi	tion					
End Treatment (Concrete, Steel, CONCRETE			N										
Others, None) Headwall					6	6	1m x 0.1 x 0.1 chip on headwall.						
Collar					N	N	Snow covered.						
							SHOW (	overeu.					
Wingwalls			X	X	-								
(Shape: )													

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			Unetro	am End			
Culvert Component		Last	Now	Explanation of Condition			
Cutoff Wall	I	N	N	Explanation of condition			
Caten Tran		.,					
Bevel End		7	7				
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	500						
Scour Protection		N	N	Snow covered.			
(Type : RIP RAP)							
(Avg. Rock Size(mm) : 300)							
Scour/Erosion		N	N	Iced over. No sign of a problem.			
Beavers (Y/N)	No						
Upstream End General Rating		6	6	GR carried forward.			
			dae Gr	lvort Porrol			
Culvert Component			Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S						
Barrel Last Accessible Date	24-Jan-2011	pan (IIIII	i).	, Rise (mm): 3050, Type: SP)			
Barrer Last Accessible Date	24-Jan-2011			1m of ice along floor.			
Special Features							
Special Feature							
(Type:)							
Special Feature							
(Type:)							
Roof		8	7				
Measured Rise (mm)							
Measured At Ring No.				Est.			
Sag (mm)	100						
Percent Sag							
Sidewall		7	7				
Measured Span (mm)	3090			Construction damage at R2-50m dia.			
Measured At Ring No.	6						
Deflection (mm)	40						
Percent Deflection	1						
Floor		N	N				
Bulge (mm)	0						
Measured At Ring No.							
Abrasion (Y/N)	No						
Circumferential Seams		8	8				
Separation (mm)	0						
Longitudinal Seams		8	8				
Total No. of Cracked Rings	0						
Total No. of Rings with Two Cracked Seams							
Min. Remaining Steel Between Cracks (mm)				2N			
Proper Lap (Y/N)	Yes						
Longitudinal Stagger (Y/N)	Yes						
Coating		6	6	Superficial rust lower half.			
Corrosion By Soil (Y/N)	No						
Corrosion By Water (Y/N)	Yes						
Camber POS/ZERO/NEG	ZERO						
Camber I OS/ZERO/NEG	LLINO						

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		Brid	dge Cu	Ivert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):		, Rise (mm): 3050, Type: SP)				
Ponding (Y/N)	No			(Water & silt is 1.7m deep. 2001/04/18)				
Fish Passage Adequacy		8	8					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		9	9					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		Х	Х					
Bevel End		8	8					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500		_					
Scour Protection		N	N	Snow covered.				
(Type: RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		N	N	Iced over. No evident problems.				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	7	G.R. carried forward from 03/Sept/2004.				
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		1						
Alignment		8	8					
Bank Stability		7	7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No			Grass hung up on South fence18-Dec-2007				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
<b>Channel General Rating</b>		7	7					

		Mainta	nance Recommen	dations					
Inspector Recommendations	Year	Inspector Comments	nance Recommen	Department Com	mente		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	I eai	inspector Comments		Department Con	IIIIeiiis		Target Tear	ESI. COSI	Ual #
PLACE ADDITIONAL RIP RAP									_
REMOVE DRIFT ACCUMULATION									+
INSTALL CONCRETE/STEEL LINING	<b>:</b>								_
INSTALL STRUTS									1
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 77.8/77	.8 Sufficiency Rati	ng (Last/Now)	81.5/81.7	Est. Repl. Yr	2047	Maint. Re	qd. (Y/N)	No
Special Monitor SW ditch e Comments for Next Inspection	rosion.			Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lam		Previous	Assistant's Name					
Next Inspection Date	24-Apr-2014		Previous	Inspection Date	18-Dec-2007				
Inspection Cycle (Default) (months)	39								
Comment									