					Bridg	e Culve	ert Insp	ection						
Bridge File Nur	nber	74734	-2 Bridge Culve				Form 1			CULM				
Year Built		2006					Lot No.		4					
Bridge or Town	Name	MORIN	IVILLE				Inspector Name			Melanie Johnson				
Located Over TRIBUTARY TO STURGEON RIV				IVER,	6.65.3,	·			BR CLS B					
Located On							Assistant Name							
	/Year	0 12.0 1	0120.100				Assistant Class							
•							Inspection Date			05-Jul-2011				
		SW SE	C 5 TWP 56 RG	SE 24 W4	M			ntry By		Theresa Lacusta				
		-113:32	2:21. 53:48:13					ntry Date			9-Jul-2011			
							Reviewer Name			Arnold Assenheimer				
			•	,			Review Date			07-Jul-2011				
Clear Roadway	//Skew	13.4 / 0) deg.				Dept. Reviewer Name Dept. Review Date							
AADT/Year		2,620 /	2010 (A)				Follow		ale	26-Jul-2011				
Road Classifica	ation	RAU-2	11.8-110				FOIIOW	-ор Бу						
Road Classification RAU-211.8-110 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 2 Pipe # Barrel Span Rise 1 MAIN - 2000														
Bridge Culver	t Inform	ation												
Number of Culv	verts		2											
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2000		MP		36		125X26	2.8	ROUND		
2	MAIN		-	2000		MP		36		125X26	2.8	ROUND		
Special Feature	es													
Special Feature	es Comi	ment												
Litility Attachmy	onte				Uti	ilities (L	ocated	at)						
		rhu					Gas							
·	South	1/ W.					Munici	nal						
							Problem (Y/N) No							
	RF tag	n installa	ed on top of Wes	st hevel ro	nof		1 TOMOTH (1714)							
WATERCRS-ST Located On 642:04 C1 20.100 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location SW SEC 5 TWP 56 RGE Longitude, Latitude -113:32:21, 53:48:13 Road Authority Alberta Transportation (A Contract Main. Area CMA09 Clear Roadway/Skew 13.4 / 0 deg. AADT/Year 2,620 / 2010 (A) Road Classification RAU-211.8-110 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 2 Pipe # Barrel Span Ri 1 MAIN - 20 Special Features					pproach Road / Embankment									
					Last	Now		Explanation of Condition						
Horizontal Aligi	nment				7	7	Entrances both directions.							
Vertical Alignm	ent				7	7	Crest to the West.							
Roadway Widtl	h (m)		13.400											
Embankment					7	7								
Sideslope (_:1)		5.0											
		: 1)												
Guardrail (Y/N))		No											
Approach Roa	ad / Eml	bankme	ent General Rat	ing	7	7								
						Unctro	om End							
Culvert Comp	onent				Last	Upstre: Now		ation of	Condi	tion				
		e:)			Last	. 10 11	LAPIGI		Jonal					
Direction	, 				N		West p	ine						
End Treatment Others, None)	(Concre	ete, Ste	el, STEEL											
Headwall					Х	Х								

Culvert Component			Upstre	eam End
•		1	Name	Explanation of Condition
Dino # · 1 Chan Type:		Last	Now	Explanation of Condition
Pipe # : 1, Span Type:) Collar		X	V	
Joliar		^	X	
Vingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		9	9	
Heaving (mm)	0			
nvert Above/Below Stream Be	BELOW			
Above/Below (mm)	250			
Scour Protection		N	9	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		N	9	
Beavers (Y/N)	No			
Upstream End General Rating			9	
		Brie	dge Cu	llvert Barrel
Culvert Component		Last	Now	Explanation of Condition
Pipe # : 1, Primary Span, Loc	ation Code: MAIN, S	Span (mm	ı):	, Rise (mm): 2000, Type: MP)
Barrel Last Accessible Date	10-Mar-2008			West pipe. Water 0.8m deep. Viewed from ends, shape and condition looks good.
Special Features				
Special Feature				
Type:)				
Special Feature				
Type :)				
Roof		9	N	(4. // 07/11 / (2002)
Measured Rise (mm)	2010			(At c/l. 05/July/2006)
Measured At Ring No.				0.5%
Sag (mm)	10			
Percent Sag	1			
Sidewall		9	N	
Measured Span (mm)	2000			At c/l10-Mar-2008
Measured At Ring No.				7/1 0/1. TO Wai 2000
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Iced over10-Mar-2008
Bulge (mm)	0			
Measured At Ring No.				
	No			
Circumferential Seams		8	N	
Separation (mm)	30			1
Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N)	0	N	N	Iced over10-Mar-2008

74734 -2 Bridge Culvert

		Brid	dge Cu	ulvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 2000, Type: MP)					
Longitudinal Seams		X	X						
Total No. of Cracked Rings									
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		7	7						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								
Fish Passage Adequacy		9	9						
Baffle		Х	Х						
	1	9	9						
• • •									
	No								
Barrel General Rating		9	N	GR 9 from 10-Mar-2008					
		Brid	dge Cu	Ivert Barrel					
Culvert Component			dge Cu Now	vert Barrel Explanation of Condition					
•	ocation Code: MAIN, S	Last	Now						
•	ocation Code: MAIN, S 10-Mar-2008	Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo		Last	Now	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe.					
(Pipe # : 2, Secondary Span, Lo		Last	Now	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe.					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features		Last	Now	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe.					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature		Last	Now	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe.					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :)		Last	Now	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe.					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature		Last	Now	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm)		Last Span (r	Now mm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe.					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof	10-Mar-2008	Last Span (r	Now mm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)	10-Mar-2008	Last Span (r	Now mm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No.	10-Mar-2008	Last Span (r	Now mm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall	10-Mar-2008 2000	Last Span (r	Now mm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006)					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag	10-Mar-2008 2000	Last Span (r	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall	2000 0	Last Span (r	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006)					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)	2000 0	Last Span (r	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006)					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.	2000 0 0 2000	Last Span (r	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006)					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)	2000 0 0 2000	Last Span (r	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006)					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	2000 0 0 2000	9	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006) At c/l10-Mar-2008					
Baffle (Type:) Waterway Adequacy Icing (Y/N) No Silting (Y/N) No Drift (Y/N) No Barrel General Rating Culvert Component (Pipe #: 2, Secondary Span, Location Code: MAII Barrel Last Accessible Date 10-Mar-2008 Special Features Special Feature (Type:) Special Feature (Type:) Roof Measured Rise (mm) 2000 Measured At Ring No. Sag (mm) 0 Percent Sag 0 Sidewall Measured At Ring No. Deflection (mm) 0 Percent Deflection 0 Floor		9	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006) At c/l10-Mar-2008					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N)	2000 0 0 0 0 0	9	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006) At c/l10-Mar-2008					
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams	2000 0 0 2000 0 0 0	9	Nowmm):	Explanation of Condition , Rise (mm): 2000, Type: MP) East pipe. Water 0.8m deep (At c/l. 05/July/2006) At c/l10-Mar-2008					

74734 -2 Bridge Culvert

		Bric	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 2000, Type: MP)
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	9	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	N	GR 9 from 10-Mar-2008
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		S		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250		1	
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	9	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	9	9	

		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
				HWM not visible.				
Bank Stability			7					
	T.							
HWM (m below Top of Culvert)				LIMM not visible				
Drift (Y/N)	No			HWM not visible.				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

			Maintenar	nce Recommen	dations					
Inspector Recommendations	Year Inspector Comments				Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS					·					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 100.	0/55.6	Sufficiency Rating (%)	(Last/Now)	98.5/74.5	Est. Repl. Yr	2055	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)										
Proposed Action										
Previous Inspector's Name	Dave Lam			Previous	Assistant's Name	Bryce Clayton)			
Next Inspection Date	05-Oct-2014	4		Previous	Inspection Date	10-Mar-2008				
Inspection Cycle (Default) (months)	39									
Comment										