Bridge Culvert Inspection														
Bridge File Number		73676 -1			Form Type		(CUL1						
Year Built		1949			Lot No.		2	2						
Bridge or Town Name		HADDOO			Inspector Name		E	Eric Carcoux						
Located Over		TRIBUTA	ER,		Inspector Class		E	BR CLS A						
Located On		32:10 C1			Assistant Name		_							
Water Body Cl.	/Year				Assista	Assistant Class								
Navigabil. CI./Y	'ear				Inspection Date		-	14-Oct-2012	4-					
Legal Land Loc	ation	SW SEC	/5M		Data Entry By			Theresa Lacusta						
Longitude, Latitude		-115:54:2			Data Entry Date			06-Jan-2013						
Road Authority		Alberta T			Review Date			Stew Hagan						
Contract Main. Area		CMA12			Dent Reviewer Name									
Clear Roadway	/Skew	8.3 / -6 d			Dept. Review Date			Paul Catt 18- Jap-2013						
AADT/Year		1,950 / 2			Follow	Follow-Lip By		10-Jaii-2013						
Road Classifica	ation	RAU-209			гоном-ор бу									
Detour Length	(km)	20												
Bridge Culvert Information														
Number of Culv	/erts	1												
Pipe #	Barrel	S	Span Rise (or D		Dia.)	Туре		Length	0	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	019	2226		SPE		109.7		152X51	3.0	ELLIPSE		
Special Feature	es	B	BARREL ELBO	W										
Special Features Comment														
					1 1+	ilitios (l	ocated	at)						
Utility Attachme	ents				01	inties (L		atj						
Telephone West r/w Gas														
Power	ower						Munici	bal						
Others							Proble	n (Y/N) No						
Remarks														
				А	pproa	ch Road	d / Emba	ankment						
						Now	Explan	Explanation of Condition						
Horizontal Alignment						6	Field e	ntrance NE.						
Vertical Alignment						6	North & South.							
Roadway Width (m)			8.300											
Embankment					N	3	Sideslo	pe is slumpir	ng S	E & NE of outl	et. Erosion NE	side between		
Sideslope (_:1)		3.0				transition of cut & fill.							
(Height of Co	ver(m) :	11)												
Guardrail (Y/N) Y			Yes											
Approach Roa	d / Emb	bankment	t General Rat	ing	6	6								
						Unstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of Cor	diti	on				
Direction			W	1.1011										
End Treatment (Concrete, Steel, STEEL														
Headwall			X	Х										
Collar			X	Х										
Wingwalls						X								
(Shape :)														
Cutoff Wall				X	X									

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		N	5	Loose bolts						
Heaving (mm) 300										
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	500		-							
Scour Protection		N	4	Bevel projecting 1.5m from fill, South side. Erosion on SW. Erection						
(Type : RIP RAP)				of bevel end eccentric.						
(Avg. Rock Size(mm) : 400)			-							
Scour/Erosion		N	4	(Piping suspected SW corner. 20/July/2007)						
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
		Bric	lae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2019	, Rise (mm): 2226, Type: SPE)						
Barrel Last Accessible Date	15-Dec-2010		,	Water 800mm deep.						
Special Features										
Special Feature		7	N							
(Type : BARREL ELBOW)				_						
Special Feature				_						
(Туре :)										
Roof		4	N	(U/S 2227, ring 18 2218, D/S 2150. 20/July/2007)						
Measured Rise (mm) 2064				(Could not measure rise due to ice. Est. similar to deflection. Cusping at 12 o'clock R1515-Dec-2010)						
Measured At Ring No. 15										
Sag (mm) 162										
Percent Sag	7									
Sidewall		7	N	(U/S 2036, ring 18 2076, D/S 2050. 20/July/2007)						
Measured Span (mm)	2089									
Measured At Ring No.	15			-						
Deflection (mm)	70									
Percent Deflection	4			(3.5%. 20/July/2007)						
Floor		N	N	(Poor nesting at plate 11 on floor seams. 20/July/2007)						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams			N	Loose circumferential bolt15-Dec-2010						
Separation (mm)	0									
Longitudinal Seams			N	(Cusping at roof seam @ R15, (22mm) - photos -15-Dec-2010)						
Total No. of Cracked Rings	0			Missing 3 holts 20'clock R17 -15-Dec-2010						
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)	0									
Proper Lap (Y/N) No				1						
Longitudinal Stagger (Y/N)	No			1						
Coating		N	N	Pitting on floor15-Dec-2010						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fonding (T/N)	INU									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2019, Rise (mm): 2226, Type: SPE)									
Fish Passage Adequacy		4	5						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		5	5	Drift U/S. Flow spreads over NW corner of bevel end U/S.					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		4	4	GR carried forward from 15-Dec-2010					
Downstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		X	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End			5	Installed rotated 45degrees					
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection		N	4						
(Type : NONE)				-					
(Avg. Rock Size(mm) :)			1						
Scour/Erosion			4	Scour hole 6m x 6m					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	4						
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			4	Sharp entrance at U/S end.					
Bank Stability			4	nks sliding, D/S area 10.5 m x 13.5m North side.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) Yes									
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)		1						
Channel General Rating		4	4						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	r Comments		Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2013	Repair sl	lides at d/s end.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		44.4/44.	4	Sufficiency Rating (Last/ (%)	Now)	37.3/42.5 E		t. Repl. Yr 2013		Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						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 K		sters			Previous	is Assistant's Name						
Next Inspection Date	14-Jul-2014 F				Previous	us Inspection Date 15-Dec-2010						
Inspection Cycle (Default) (months) 2												
Comment												