Bridge Culvert Inspection													
Bridge File Number	ber 77448 -1 Bridge Culvert								CUL1				
Year Built	1985					71		4					
Bridge or Town Name	RICH LAKE					Inspector Name			Wade Nanninga				
Located Over	TRIBUTA	ARY TO BEAN	ER RIVE	ER, 7.20,		· ·		BR CLS A					
	WATERO					Assistant Name							
Located On	55:14 C1	41.620				Assistant Class							
Water Body Cl./Year	-					Inspection Date		09-Apr-2012					
Navigabil. Cl./Year	NN4/050					Data Entry By		Lisa Fairhurst					
Legal Land Location		28 TWP 63 F	(GE 10 W	/4M		Data Entry Date		25-Apr-2012					
Longitude, Latitude						Reviewer Name		Eric Carcoux					
Road Authority	Alberta Transportation (AIT)					Review Date		25-Apr-2012					
Contract Main. Area	CMA08					Dept. Reviewer Name		Brent Herrick					
Clear Roadway/Skew		eg. (RHF)				Dept. Review Date		04-May-2012					
AADT/Year Road Classification	940 / 201 RAU-211	F		Follow-	Follow-Up By								
		.0-110											
Detour Length (km) 3 Bridge Culvert Information													
Number of Culverts 1													
Pipe # Barrel		pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	-		2877		SPE		87.8		152X51	3.0	ROUND		
Special Features			1		1								
Special Features Con	nment												
•													
				Ut	ilities (l	ocated	at)						
Utility Attachments						-							
Telephone						Gas							
	e OH 35 m	North of c/l.					/unicipal Problem (Y/N) No						
Others			Probler	n (Y/N) ľ	No								
Remarks BF ta	ag installed	on top of Nor			ah Daa								
			A	Last			ankment ation of C	ondi	tion				
Horizontal Alignment				7	7	Explanation of Condition Curve to east. Crest curve to east, no passing.							
Vertical Alignment			7	7									
Roadway Width (m) 11.000													
Embankment					4	Ditch A	Ditch erosion NW & SW corners. File 79639 cattlepass insta						
Sideslope (:1)					-	immediately west. NV			V gully 600 x 600 x 200m, well vegetated.				
(Height of Cover(m)	· 9 2)	0.0											
Guardrail (Y/N)	. 0.2)	Yes											
Approach Road / Em	bankmen	t General Rat	ing	7	7								
					Unstre	am End							
Culvert Component				Last			ation of C	ondi	tion				
Direction				N									
End Treatment (Conc Others, None)	rete, Steel,	STEEL											
Headwall				X	X								
Collar			X	Х									
Wingwalls				X	Х								
(Shape :)						1							
Cutoff Wall				X	Х								

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		8	8	Silt deposited on floor of bevel opening growing brush.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			-						
Above/Below (mm)	500									
Scour Protection		8	7	Not much visible. Well vegetated						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 300)			1							
Scour/Erosion		8	7							
Beavers (Y/N)	No									
Upstream End General Rating			7							
		Bric	dge Cu	lvert Barrel						
Culvert Component	· · · · · · · · · · · · · · · · · · ·		Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spar	n (mm):	, Rise (mm): 2877, Type: SPE)						
Barrel Last Accessible Date	14-Jul-2010			Ice too thin to enter Shape looks good from ends						
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		7	7							
Measured Rise (mm)	2870			Near c/l.						
Measured At Ring No.										
Sag (mm) 7				Estimated						
Percent Sag	1									
Sidewall		7	7	Near c/l.						
Measured Span (mm)	2557									
Measured At Ring No.										
Deflection (mm)	53			Estimated						
Percent Deflection	2									
Floor		Ν	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		8	N							
Separation (mm)	0	-								
Longitudinal Seams		7	7	50% seams are correctly lapped while the rest are incorrect Roof						
Total No. of Cracked Rings	0	-		50% seams are correctly lapped while the rest are incorrect. Roof plates nested poorly at U/S end.						
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating		8	8	No visible corrosion.						
Corrosion By Soil (Y/N)	No	0	0							
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

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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): , Rise (mm): 2877, Type: SPE)										
Fish Passage Adequacy			4	Silt @ opening						
Baffle			Х							
(Type :)										
Waterway Adequacy			6							
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N) No										
Barrel General Rating			N	GR previously 7 from July 2010						
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	S								
End Treatment (Concrete, Steel, Others, None)	d Treatment (Concrete, Steel, STEEL ers, None)		1							
Headwall		Х	Х							
Collar		X	X							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	Х							
Bevel End		8	8							
Heaving (mm)	0									
nvert Above/Below Stream Bed BELOW										
Above/Below (mm)	Above/Below (mm) 600									
Scour Protection		8	7	Not much visible rock						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		8	7							
Beavers (Y/N)	eavers (Y/N) No									
Downstream End General Ration	Downstream End General Rating		7							
		S	structu	re Usage						
		Last		Explanation of Condition						
Channel (U/S and D/S)										
Alignment			9							
Bank Stability			9							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes									
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :										
Channel General Rating			9							

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Com	nments	Target Year	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											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		77.8/55.0	6 Sufficiency Rating (Last/No (%)	9W) 8	3.1/58.2 Est. Repl. Yr 2045		2045	Maint. Reqd. (Y/N) No			
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By				Date	Estimated Total 0						
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Shane Hall			Hall Previous A			Assistant's Name					
Next Inspection Date 09-J		2014	P	Previous I	Inspection Date 14-Jul-2010						
Inspection Cycle (Default) (months) 21											
Comment											