Bridge Culvert Inspection														
Bridge File Num	ber	72945 -1 Bridge Culvert					Form Type			CUL1				
Year Built 1991						Lot No.				4				
Bridge or Town Name CAROLINE							Inspec	tor Name		Owen Salava				
Located Over		TRIBU	JTARY TO RAVEN RIVER, 3.91.6, ERCRS-ST				-	tor Class		BR CLS A				
Located On			21 10 146				Assistant Name							
Water Body Cl./		3 4 .00 C	71 10.140	,1 10.146				ant Class						
Navigabil. Cl./Ye							Inspection Date			05-Nov-2012				
Legal Land Loca		NIM SE	C 18 TWP 36 F	OCE 5 ME	5N/I		, ,			Marcia Chavez				
								ntry Date		20-Nov-2012				
								ver Name	!	John O'Brien				
Road Authority Alberta Contract Main. Area CMA18								Review Date		14-Nov-2012				
Clear Roadway/		12 /	,				·			Andrew Smikl	es			
AADT/Year			2011 (A)				Dept. Review Date			26-Nov-2012				
Road Classificat		RAU-20					Follow-Up By							
Detour Length (-	6	30 110											
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel		Span Rise (or I		Dia.) Type			Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 1	MAIN		-	2438	2438			37.2		152X51	3.0	ROUND		
Special Features	 S						1 -							
Special Features	s Comn	nent												
Utilities (Located at) Utility Attachments														
Telephone South r/w buried.							Gas		30m F	East crossing.				
Power		e 20m North of c/l.					Munici	nal	00111 2					
Others	0 11110		<u> </u>			Problem (Y/N) No								
Remarks														
Approach Road / Embankment														
						Now	Explanation of Condition							
Horizontal Alignment					9	9								
Vertical Alignment					8	8								
Roadway Width (m)		12.000												
Embankment				8	8									
Sideslope (:	:1)		3.0											
(Height of Cover(m) : 2.1)														
			No											
Approach Road	Approach Road / Embankment General Ratin			ing	8	8								
						Upstre	om Enc							
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
			N	INOW	LAPIGI	iation or	Conai	LIOII						
End Treatment (Concrete, Steel, STEEL					-									
Others, None) Headwall			Х	Х										
Collar			X	X										
Wingwalls			X	X										
(Shape:)														
Cutoff Wall				Х	Х									
							1							

			Hartur	on End							
Culvert Common and				eam End							
Culvert Component		Last	Now	Explanation of Condition							
Bevel End	0	7	7								
Heaving (mm)	0										
Invert Above/Below Stream Bed											
Above/Below (mm) 400											
Scour Protection		6	6								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		6	6								
Beavers (Y/N)	No										
Upstream End General Rating	'	6	6								
Bridge Culvert Barrel											
Culvert Component			Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm	ı):	, Rise (mm): 2438, Type: SP)							
Barrel Last Accessible Date	05-Nov-2012										
Special Features											
Special Feature											
(Type:)											
Special Feature											
(Type:)											
Roof		N	7								
Measured Rise (mm)	2410										
Measured At Ring No.	3										
Sag (mm)	18			0.70/							
Percent Sag	1			0.7%							
Sidewall		N	7								
Measured Span (mm)	2458	- 1									
Measured At Ring No.	3										
Deflection (mm)	20			0.004							
Percent Deflection	1			0.8%							
	'	NI	NI.	Water/ice.							
Floor	0	N	N	vvaler/ice.							
Bulge (mm)	0										
Measured At Ring No.	No										
Abrasion (Y/N)	No		-								
Circumferential Seams		N	7	-							
Separation (mm)	0										
Longitudinal Seams		N	7								
Total No. of Cracked Rings	0										
Total No. of Rings with Two Cracked Seams											
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N)	Yes										
Longitudinal Stagger (Y/N)	Yes										
Coating		6	6	Superficial corrosion.							
Corrosion By Soil (Y/N)	No		, ,								
Corrosion By Water (Y/N)	Yes										
Camber POS/ZERO/NEG	ZERO										
Ponding (Y/N)	No										

(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):			Ivert Barrel									
Baffle	Culvert Component		Last	Now	Explanation of Condition							
Materiary Adequacy	(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2438, Type: SP)							
Type : Waterway Adequacy No No Silting (Y/N) No No Durit (Y/N) No Durit (V/N) No Durit (Y/N) No Durit (V/N) Durit (V/N) No Durit (V/N) No Durit (V/N) Dur	Fish Passage Adequacy		8	8								
Waterway Adequacy 8 8 cling (YN) No 1 Silking (YN) No 1 Drift (YN) No 1 Barrie (Great Rating) No Total Teatment (Concrete, Steel, Others, None) SEEL Total Teatment (Concrete, Steel, Others, None) STEEL Total Teatment (Concrete, Steel, Others, None) X William (Concrete, Steel, Others, None) X Total Teatment (Concrete, Steel, Others, None) X<	Baffle		Х	X								
Did g (Y/N)	(Type:)											
Did g (Y/N)	Waterway Adequacy		8	8								
Silting (Y/N) No		No										
Drift (Y/N)		No										
N												
Culvert Component			N	7								
Culvert Component Last Now Explanation of Condition Direction STEEL	3											
Direction												
End Treatment (Concrete, Steel, Mone) Others, None) STEEL				Now	Explanation of Condition							
Others, None) Image: None) Headwall X			S									
Collar	End Treatment (Concrete, Steel, Others, None)	STEEL										
Mingwalls	Headwall		X	X								
Cutoff Wall	Collar		X	X								
Cutoff Wall X X X Bevel End 8 8 Heaving (mm) 0 ————————————————————————————————————	Wingwalls		X	X								
Bevel End	(Shape:)											
Heaving (mm)	Cutoff Wall		Х	X								
Invert Above/Below Stream Bed BELOW Above/Below (mm) 500	Bevel End			8								
Above/Below (mm) 500 Scour Protection 7 7 (Type : RIP RAP) (Avg. Rock Size(mm) : 300) Scour/Erosion 7 7 Beavers (Y/N) No	Heaving (mm) 0											
Scour Protection 7 7 (Type : RIP RAP) (Avg. Rock Size(mm) : 300) T 7 7 Scour/Erosion 7 7 7 7 Beavers (Y/N) No Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) 7 7 7 HWM (m below Top of Culvert) 7 7 TWM (m below Top of Culvert) No HWM not visible. HWM not visible. Unknown Channel Bottom Degrading/Aggrading No Unknown	Invert Above/Below Stream Bed	BELOW										
(Type : RIP RAP) (Avg. Rock Size(mm) : 300) 7 7 Scour/Erosion No	Above/Below (mm)	500										
(Avg. Rock Size(mm) : 300) Scour/Erosion 7 7	Scour Protection		7	7								
Scour/Erosion 7 7 Beavers (Y/N) No Structure Usage Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) 7 7 HWM not visible. No 1 Channel Bottom Degrading/Aggrading No 1 Unknown Beavers (Y/N) No 1 Unknown (Fish Compensation Measure 1 : NONE) NONE) Incompany in the property of th	(Type: RIP RAP)											
Beavers (Y/N)	(Avg. Rock Size(mm) : 300)											
Downstream End General Rating 7 7 7 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 7 Bank Stability 7 7 7 HWM (m below Top of Culvert) No HWM (m below Top of Culvert) No Unknown Channel Bottom Degrading/Aggrading Beavers (Y/N) No No (Fish Compensation Measure 2 : NONE) Structure Usage Explanation of Condition HWM explanation of Condition Fixed Page 1 The page 1 The page 1 The page 2 The page 2 The page 2 The page 3 The page 4 The page 4	Scour/Erosion		7	7								
Structure Usage Last Now Explanation of Condition	Beavers (Y/N)	No										
Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) 7 7 Drift (Y/N) No No Channel Bottom Degrading/Aggrading No Unknown Beavers (Y/N) No Vnknown (Fish Compensation Measure 1 : NONE) NONE)	Downstream End General Ratio	ng	7	7								
Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) 7 7 Drift (Y/N) No No Channel Bottom Degrading/Aggrading No Unknown Beavers (Y/N) No Vnknown (Fish Compensation Measure 1 : NONE) NONE)			S	tructu	re Usage							
Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)												
Bank Stability 7 7 HWM (m below Top of Culvert) HWM not visible. Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Channel (U/S and D/S)											
HWM (m below Top of Culvert) Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Alignment		7	7								
Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Bank Stability		7	7								
Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	HWM (m below Top of Culvert)				HWM not visible.							
Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)												
(Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)					Unknown							
(Fish Compensation Measure 2 : NONE)	Beavers (Y/N)	No										
	(Fish Compensation Measure 1 :	NONE)										
Channel General Rating 7 7	(Fish Compensation Measure 2 :	NONE)										
	Channel General Rating		7	7								

Maintenance Recommendations											
Inspector Recommendations		Year Inspector Comments				Department Com	ments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION									<u> </u>		
Structural Condition Rating (Last/No. (%)	ow)	55.6/77.8		Sufficiency Rating (Last/Now) (%)		65.4/77.1	Est. Repl. Yr	2050	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Owe		Owen Salava			Previous	vious Assistant's Name					
Next Inspection Date 05-A		05-Aug-2014 Previo				Inspection Date	11-Apr-2011				
Inspection Cycle (Default) (months)	21										
Comment											