Bridge Culvert Inspection														
Bridge File Number 00720 - 2) -1 Bridge Culvert				Form Type			CUL1					
Year Built 1957							Lot No.			3				
Bridge or Town	Name	CARST	AIRS				Inspector Name		Owen Salava					
Located Over	-	TRIBUT	ARY TO SHE	EP COUL	EE,		Inspect	or Class		BR CLS A				
		3.33.22.	1, WATERCR	5-51			Assistant Name							
Located On	;	581:02 (012.343					Assistant Class						
Water Body CI./	Year						Inspection Date		26-Oct-2011					
Navigabil. Cl./ re								ntry By		Marcia Chavez				
Legal Lanu Loca		114.02	2:41 E1:22:42					ntry Date		21-Nov-2011				
Road Authority Alberta		-114.03. Alborta ⁻	3.41, 51.33.43					er Name		John O'Brien				
Contract Main. Area CMA2			29					Review Date		10-Nov-2011				
Clear Roadway/Skew 9.2 /		92/	J					Dept. Reviewer Name		Andrew Smikles				
AADT/Year 1 890		1 890 / 2	/ 90 / 2010 (А)					Dept. Review Date		22-Nov-2011				
Road Classificat	Road Classification RCU-2		209-110					Ор Ву						
Detour Length (km) ;	3			-									
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel	:	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1829		SP		42.7		152X51	2.8	ROUND		
Special Feature	s													
Special Features	s Comm	nent												
Litility Attachmo	nto				Uti	lities (L	ocated	at)						
Power			Η Ρ/\//			Municipal								
Others	4 00111						Problem (Y/N) No							
Remarks														
	Approach Road / Embankment													
				Last	Now	Explanation of Condition								
Horizontal Alignment				9	9									
Vertical Alignment		_		7	7									
Roadway Width	(m)		9.200											
Embankment			_		8	8								
Sideslope (:	:1)		3.0				_							
(Height of Cov	/er(m) : 3	3.6)												
Guardrail (Y/N)			No											
Approach Road	d / Emba	ankmer	nt General Ra	ting	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explan	ation of	Condit	ion				
Direction			S											
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall				X	Х									
Collar	Collar				X	Х								
Wingwalls						X								
(Shape :)														
Cutoff Wall						Х								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		5	5	Missing 1 row of bolts @ E long seam.						
Heaving (mm)	0			Extra holes drilled W seam.						
Invert Above/Below Stream Bed	ABOVE			(WATER ENTERING AT LOWER BOLTS. 20Jan2006).						
Above/Below (mm) 50										
Scour Protection		N 5		Well-grown over.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 150)										
Scour/Erosion		N	5	Scour under bevel 500mm long - minor.						
Beavers (Y/N)	No									
Upstream End General Rating	Unstream End Conoral Pating									
		Brid	lge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)):	, Rise (mm): 1829, Type: SP)						
Barrel Last Accessible Date	26-Oct-2011									
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		6	6							
Measured Rise (mm)	1838									
Measured At Ring No.	6									
Sag (mm)	0									
Percent Sag	0									
Sidewall		5	5							
Measured Span (mm)	1749									
Measured At Ring No.	6									
Deflection (mm)	80									
Percent Deflection	4									
Floor		5	5							
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		7	7							
Separation (mm)	0									
Longitudinal Seams		4	4	Top row of bolts missing from E bevel at pipe inlet.						
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N) Yes										
Coating			5	Corrosion with some pittiing @ haunches and floor						
Corrosion By Soil (Y/N) No		0								
Corrosion By Water (Y/N)	Yes									
Camber POS/7ERO/NEG	POS									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel											
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm):		, Rise (mm): 1829, Type: SP)							
Fish Passage Adequacy		Х	X								
Baffle		X	Х								
(Туре :)											
Waterway Adequacy		9	9								
Icing (Y/N)	Icing (Y/N) No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		5 5		Bolts missing in inlet bevel do not degrade culvert ring strength.							
Downstream End											
Culvert Component			Now	Explanation of Condition							
Direction	OTEEL	IN		-							
Others, None)	SIEEL										
Headwall	1	Х	X								
Collar		X	Х								
Wingwalls		X	Х								
(Shape:)		_									
Cutoff Wall			X								
Bevel End		5	5	Bevel projects from fill 300mm.							
Heaving (mm)	100		_								
Invert Above/Below Stream Bed	nvert Above/Below Stream Bed ABOVE										
Above/Below (mm)	150										
Scour Protection		N	4	Scour 2.5m under bevel.							
(Type : NONE)				5m dia scour hole off bevel.							
(Avg. Rock Size(mm) :)											
Scour/Erosion			4								
Beavers (Y/N)	seavers (Y/N) No										
Downstream End General Ration	ng	4	4								
		S	Structu	re Usage							
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)	1	1-000	1								
Alignment			4	WATER ENTERS FROM SW DITCH AT 90 DEG.							
Bank Stability			8								
HWM (m below Top of Culvert) 0.9				(24Aug2000).							
Drift (Y/N) No											
Channel Bottom DEGRADING Degrading/Aggrading				D/S end.							
Beavers (Y/N)	Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating			4								

00720 -1 Bridge Culvert

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comments			Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP		2012	10m3 CLI rk&clay - fill scour d/s end 8 both bevels.	& under							
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) (%)		55.6/55.6 Sufficiency Rating (Las (%)		low) 6	35.0/65.0 Est. Repl. Yr 2020		2020	Maint. Reqd. (Y/N) Ye		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	Owen S	Owen Salava			Previous Assistant's Name						
Next Inspection Date	26-Jan-2015			Previous Inspection Date 06-Dec-2010							
Inspection Cycle (Default) (months) 39											
Comment											