Bridge Culvert Inspection														
Bridge File Number 099		09985 -1	09985 -1 Bridge Culvert					уре		CUL1				
Year Built 1982			982							2				
Bridge or Town Name BOWDEN			EN				Inspector Name			Owen Salava				
Located Over SPRUCE			E CREEK, 3.46.24, WATERCRS-ST				Inspector Class			BR CLS A				
Located On 587:03 C			C1 11.758				Assistant Name							
Water Body Cl./Year					Assistant Class									
Navigabil. Cl./Year							Inspection Date			25-Oct-2011				
Legal Land Location SW SEC			25 TWP 34 R		Data Entry By			Marcia Chavez						
Longitude, Latitude -113:51:1			17, 51:56:24					ntry Date	•	25-Nov-2011				
Road Authority Alberta T			Transportation (AIT)					er Name	•	John O'Brien				
Contract Main. Area CMA19					Review Date			13-Nov-2011						
Clear Roadway/Skew 10 /							Dept. Reviewer Name			Andrew Smikles				
AADT/Year 410 / 201			10 (A)		Dept. Review Date			28-Nov-2011						
Road Classifica	ation	RCU-209	9-110		Follow-	Uр Ву								
Detour Length	(km)	7												
Bridge Culvert	t Inform	nation												
Number of Culv	Number of Culverts 1													
Pipe #	Barrel	Span Rise (o		Rise (or	Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		1600		MP		41		68X13	2.8	ROUND		
Special Feature	es	<u>ا</u>	/ERT TIMBER	STRUTS	S									
Special Features Comment														
	Utilities (Located at)													
Utility Attachme	ents						-		1					
lelephone														
Power														
Others							Probler	n (Y/N)	No					
Remarks														
				A	<u>oproac</u>	ch Road	d / Emba	ankment	Condit	ion				
					Last	NOW	At the intersection							
					6	5	Bottom	Bottom of long sag - both directions.						
Roadway Width (m)			10.000		0	0		-	-					
Embookmoot					6	6								
Embankment			2.0		0	0								
Sideslope (:1)			3.0				-							
(Height of Cover(m) : 4) Guardrail (Y/N)			No											
Approach Road / Embankment General Rating						5								
						Upotro	om End							
Culvert Comp	onent				Last	Now	Explan	ation of	Condi	ion				
Direction			N		Explain		Contai							
End Treatment (Concrete, Steel, STEE						-								
Others, None)					1									
Headwall				X	X									
Collar			X	Х										
Wingwalls			X	X										
(Shape :)														
Cutoff Wall					X	X								

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	_
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm) 0				
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	6	
	1	Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı):	, Rise (mm): 1600, Type: MP)
Barrel Last Accessible Date	25-Oct-2011			
Special Features				
Special Feature		4	4	Moved to side at North end - photo.
(Type : VERT TIMBER STRUTS)			_
Special Feature				
(Туре :)				
Roof		5	5	Local sag @ the D/S end 250mm.
Measured Rise (mm)	1500			
Measured At Ring No.	6			
Sag (mm)	100			
Percent Sag	6			6.3%
Sidewall		5	5	
Measured Span (mm)	1500			
Measured At Ring No.				
Deflection (mm)	100			6.29/
Percent Deflection	6			- 0.3 %
			N	300mm dirt/water
Bulge (mm)	30		IN	
Measured At Ring No.	50			
Abrasion (Y/N)				-
		0	6	1 at from LL/S and 20mm concretion
Separation (mm)	50	0	Ø	2nd from U/S end 35mm seperation.
Separation (mm)	50			3rd from U/S end 50mm seperation
Longitudinal Seams	1	Х	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		5	5	Superficial corrosion lower 1/3.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
	INU			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

09985 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1600, Type: MP)					
Fish Passage Adequacy		Х	X						
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N) No									
Silting (Y/N)	Yes								
Drift (Y/N) No									
Barrel General Rating		5	5						
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall	Headwall								
Collar		X	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed				At S.B.					
Above/Below (mm)	0								
Scour Protection		N	6						
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 250)		1							
Scour/Erosion			6						
Beavers (Y/N) No									
Downstream End General Ratin	ng	6	6						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		8	8						
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			Local tarmer reports periodic beaver presence.					
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		8	8						

Maintenance Recommendations													
Inspector Recommendations			Year	Inspector Comments			Department Co	ommen	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTOFF													
REPAIR SEAMS													
OTHER ACTION			2012	Re-insta	Il struts at North end - 3m l	ength.							
OTHER ACTION													
OTHER ACTION					1			1					
Structural Condition Rating (Last/Now) (%)			55.6/55.6		Sufficiency Rating (Last (%)	/Now)	65.6/65.6 Es		. Repl. Yr	2020	Maint. R	eqd. (Y/N)	Yes
Special Comments for Next Inspection The culvert was put in poor (Note: this culvert was strut Measure ring separations a			/. ed by loo u/s end	cal road a , midpoint	uthority Nov 1992.) t & d/s end.		Department Comments						
Maintenance Reviewed By							Date		Estimated Total 0				
Proposed Long-Term Strategy 200		2004.05	2004.05.30 Culvert Strutted. Monitor normal BIM. Culvert should be ok until 2022.										
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Owen			Owen Salava Previo			Previous	us Assistant's Name						
Next Inspection Date 25-			25-Jan-2015 Previo				Inspection Date 07-Dec-2010						
Inspection Cycle (Default) (months) 39													
Comment													