Bridge Culvert Inspection													
Bridge File Number 79968 -1 Bridge Culvert						Form T		CULM	CULM				
Year Built 1993						Lot No.	• •	4					
Bridge or Town Name VAUXHALL					Inspector Name			Jason Rusu	Jason Rusu				
Located Over					Inspector Class		BR CLS A						
Located On	C1 1.655				Assistant Name								
Water Body CI./					Assistant Class								
Navigabil. Cl./Ye							Inspection Date		17-Mar-2012				
Legal Land Loca	ation	SW SEC					Data E	ntry By	Lauren Korte				
								ntry Date	11-Apr-2012				
Road Authority Alberta Tr			Transportation (AIT)				Reviewer Name		Garry Roberts				
Contract Main. Area CMA24							Review Date		23-Mar-2012	-			
Clear Roadway/	Skew	9.8 /					Dept. F	Reviewer Name	Tim Davies				
AADT/Year 220 / 201			11 (A)				Dept. F	Review Date	17-Apr-2012				
Road Classificat	ion	RLU-20	8-100				Follow-	Up By					
Detour Length (I	(m)	6											
Bridge Culvert	Inform	ation											
Number of Culve	erts	:	2										
Pipe #	Barrel	:	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1 [	MAIN		-	1800		MP		21	75X25	2.8	ROUND		
2 1	MAIN		-	1800		MP		21	75X25	2.8	ROUND		
Special Features	5												
Special Features	s Comr	ment											
					Uti	lities (L	ocated	at)					
Utility Attachmer							0						
Telephone	SE 10						Gas						
Power			h, xing road.				Municip						
Others 3 line South ditch.							Probler	m (Y/N) No					
Remarks				۸.		h Door	l / Emb	ankment					
						1	ation of Conc	ition					
Horizontal Alignment				8	8		ction 20m Wes						
Vertical Alignme					8	8							
Roadway Width			8.250										
Embankment					N	8							
Sideslope (:	1)		3.0			0							
(Height of Cov		07)	0.0										
Guardrail (Y/N)	01(11) 1	<u> </u>	No										
Approach Road	l / Emt	bankmer	nt General Rat	ing	8	8							
						Unstre	am End						
Culvert Compo	nent				Last		1	ation of Cond	ition				
(Pipe # : <b>1, Spa</b>		e: Prima	ry Span)										
Direction							NW.						
End Treatment ( Others, None)	Concre	ete, Stee	I, STEEL										
Headwall				Х	X								
Collar	Collar			Х	Х								
Wingwalls					X	X							
(Shape: )				~	~								
(onape.)	(Snape: )												

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		N	5	Deformed from installation.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	5	
				lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca		Span (mm	ı):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	17-Mar-2012			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	7	
Measured Rise (mm)	1795			
Measured At Ring No.	2			
Sag (mm)	5			
Percent Sag	1			
Sidewall		N	7	Inward.
Measured Span (mm)	1732			
Measured At Ring No.	2			
Deflection (mm)	8			
Percent Deflection	0			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	
Separation (mm)	75			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			1
Longitudinal Stagger (Y/N)	No			1
Coating		N	5	At waterline and at floor.
Corrosion By Soil (Y/N)	No			1
Corrosion By Water (Y/N)	Yes			1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel				
Culvert Component			Now					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sr	an (mm):		, Rise (mm): 1800, Type: MP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		X	Х					
Baffle		X	X					
(Type : )								
Waterway Adequacy		N	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	7					
		D		eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Direction	1			South West.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar			Х					
Wingwalls	Wingwalls							
(Shape : )		X	X					
Cutoff Wall		X	X					
Bevel End		N	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500							
Scour Protection		N	8					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 300)			-					
Scour/Erosion		N	8					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	8	7					
				am End				
Culvert Component		Last	NOW	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Direction	STEEL			NE.				
End Treatment (Concrete, Steel, Others, None)	SIEEL							
Headwall		X	X					
Collar		X	X					
Wingwalls	Wingwalls		Х					
(Shape : )			1					
Cutoff Wall		X	X					

Alberta Transportation

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	4	Floor bent inwards at both sides from Rip Rap placement.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	4	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN.			, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	17-Mar-2012		,-	
Special Features				
Special Feature				
(Туре:)				
Special Feature				
(Type:)				
Roof		N	7	Small dent in the roof 2m from the d/s End.
Measured Rise (mm)	1797			
Measured At Ring No.	2			
Sag (mm)	3			-
Percent Sag	1			
Sidewall		N	7	
Measured Span (mm)	1795			
Measured At Ring No.	2			1
Deflection (mm)	5			1
Percent Deflection	0			1
Floor	Ŭ.	N	7	
Bulge (mm)	0		1	
Measured At Ring No.	0			
Abrasion (Y/N)				
Circumferential Seams		N	7	
Separation (mm)	75	IN IN	1	
	15	NI	V	
Longitudinal Seams	0	N	X	
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams	0			-
Min. Remaining Steel Between Cracks (mm)	0			-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				
Coating	T	N	5	At floor and sidewalks.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	, Span (r	nm):	, Rise (mm): 1800, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle			X	
(Type : )		X	^	
		N	7	
Waterway Adequacy	No	IN	1	
Icing (Y/N)				-
Silting (Y/N)	No			-
Drift (Y/N)	No		-7	
Barrel General Rating		N	7	
				ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			I
Direction				SE.
End Treatment (Concrete, Steel, Others, None)	STEEL		-	
Headwall		X	X	
Collar			Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall			X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	8	
(Type : <b>RIP RAP</b> )				_
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Downstream End General Ration	ng	8	7	
			Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	Concrete turnout 4m South.
				East side and 7m on the West side.
Bank Stability		N	8	
HWM (m below Top of Culvert)	1.1			None visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		9	9	

Maintenance Recommendations													
Inspector Recommendations		Year Inspector Comments			Department Comr	Target Year	Est. Cost	Cat #					
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTO	FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	w)	55.6/77.8	8 Sufficiency Rating (Last/N (%)	ow) 7	<b>77.1/75.9</b> Est. Repl. Yr 2045		2045	Maint. Reqd. (Y/N)		No			
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 Tim		vies		Previous Assistant's Name									
Next Inspection Date 17		-2015		Previous Inspection Date 03-Mar-2009									
Inspection Cycle (Default) (months) 39													
Comment													