Bridge Culvert Inspection													
Bridge File Number 08919 -1 Bridge Culvert				Diffag	e ourve	Form Type			CULM				
Year Built		1969					Lot No.			3			
Bridge or Town N									Jon Davies				
Located Over GALWEY BROOK, 2.12.22.5.17.				1		· ·			BR CLS B				
		WATER		2.22.0.17.	,		Assistant Name		BROLOB				
Located On		6:04 C1	0.575				Assistant Class						
Water Body CI./Y	rear						Inspection Date		30-Oct-2011				
Navigabil. Cl./Ye	ar						Data Er			Alyssa Boynton			
Legal Land Location SE SEC 19 TWP 2 RGE 29 W4W				Λ		Data Entry Date 28-Nov-2011							
Longitude, Latitude -113:51:11, 49:08:15						Reviewer Name Garry Roberts							
Road Authority Alberta Transportation (AIT)						Review Date 08-Nov-2011							
Contract Main. Area CMA26						Dept. Reviewer Name Tim Davies							
Clear Roadway/S		10 /					Dept. Review Date 01-Dec-2011						
AADT/Year		1,010/2	2010 (A)					Follow-Up By					
Road Classificati		RAU-210	0-110										
Detour Length (k		30											
Bridge Culvert I													
Number of Culve		1	-	<b>D</b> : ( -		-				0			
Pipe # E	Barrel	S	Span	Rise (or [	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 N	IAIN	3	3960	2480		BP		27.7				RECTANGLE	
Special Features						I							
Special Features		nent											
					Uti	lities (L	ocated	at)					
Utility Attachmen							1		1				
•		litch & Ea					Gas						
	Underg	rground conduit west row					Municip						
Others							Problem (Y/N) No						
Remarks													
								ankment		len			
Harizantal Aliana	nont				<u>Last</u> 7	T T	Explanation of Condition Curve to North. (300 m).						
Horizontal Alignment Vertical Alignment			7	7	Rises to South.								
venical Alignment			1	/									
							N		- 4 - 111				
Roadway Width	(m)		10.000				inew gu	ardrail in	Istalled	•			
	(11)		10.000										
Embankment					8	8							
Sideslope (:	1)		2.5										
(Height of Cove	er(m) :	3.1)											
Guardrail (Y/N)			Yes										
					_	-							
Approach Road	I / Emb	ankmen	t General Rati	ing	7	7							
						Upstre	am End						
Culvert Component				Last	Now	1	ation of	Condit	ion				
Direction					W		West e						
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall					6	6							
Collar					Х	5							

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls			6	Several typical diagonal cracks.						
(Shape : <b>FLARE</b> )										
Cutoff Wall		Х	N							
Bevel End		Х	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection		6	6							
(Type : CONCRETE, RIP RAP)	)									
(Avg. Rock Size(mm) : <b>450</b> )			1							
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Upstream End General Rating		6	5							
		Bric	dge Cu	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1980	, Rise (mm): 2480, Type: BP, Cell Sequence: 1)						
Barrel Last Accessible Date	30-Oct-2011			South Cell						
Special Features	1									
Special Feature										
(Туре : )										
Special Feature										
(Туре : )										
Roof		6	5	Typical settlement cracks (not structurally serious) up sidewall and						
Measured Rise (mm)	2480			across roof. These cracks allow some leaching.						
Measured At Ring No.	1									
Sag (mm)	0									
Percent Sag										
Sidewall	1	6	5							
Measured Span (mm)	1980									
Measured At Ring No.	1									
Deflection (mm)	0									
Percent Deflection			-							
Floor	1	6	6	0.1m concrete floor cast on original floor.						
Bulge (mm)	0									
Measured At Ring No.				Minor throughout.						
Abrasion (Y/N)	Yes		1							
Circumferential Seams	1	6	6							
Separation (mm)	10		T							
Longitudinal Seams	1	Х	X							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel 0 Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Coating		Х	X							
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

08919 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN,	Span (mm	): 1980	), Rise (mm): 2480, Type: BP, Cell Sequence: 1)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		4	4	Poor due to D/S invert 600m above S.B.					
Baffle		X	X						
(Type : )			~						
Waterway Adequacy		2	3	Drift removal reccomended					
Icing (Y/N)	No	2	5	Large drift accumulation @ u/s.					
Silting (Y/N)	No			-					
Drift (Y/N)	Yes			-					
Barrel General Rating	103	2	5						
Barrer General Kating		2	J						
				livert Barrel					
Culvert Component				Explanation of Condition					
		Span (mm	): 1980	), Rise (mm): 2480, Type: BP, Cell Sequence: 2)					
Barrel Last Accessible Date	30-Oct-2011			North cell.					
Special Features									
Special Feature									
(Type : )									
Special Feature				_					
(Type:)									
Roof		6	5	Typical settlement cracks (not structurally serious) up sidewall and					
Measured Rise (mm)	2480			across roof. Cracks allow some leaching.					
Measured At Ring No.	1			-					
Sag (mm)	0								
Percent Sag	0								
Sidewall		6	5						
Measured Span (mm)	1980								
Measured At Ring No.	1			-					
Deflection (mm)	0			1					
Percent Deflection	0			1					
Floor		4	4	1 area @ floor @ 1/3L with exposed rebar for 1m.					
Bulge (mm)	0			25 to 50mm deep abrasion @ 30% of floor. At CJ #1 75mm settlement causing hydraulic effect on floor.					
Measured At Ring No.	1			At 05 #1 75mm Settlement causing hydraulic effect on floor.					
Abrasion (Y/N)	Yes								
Circumferential Seams		6	5	Seams allow some leaching.					
Separation (mm)	10								
Longitudinal Seams		Х	X						
Total No. of Cracked Rings	0			1					
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		Х	X						
Corrosion By Soil (Y/N)				1					
Corrosion By Water (Y/N)				1					

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

08919 -1 Bridge Culvert

				Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm	): 1980	), Rise (mm): 2480, Type: BP, Cell Sequence: 2)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	600 mm drop off at outlet.
Baffle		X	X	
(Type : )				
Waterway Adequacy		2	3	major drift accumulation @ u/s removal reccomended
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			-
Barrel General Rating	165	2	5	
Barrel General Katilig				
Culvert Component		D Last	ownst Now	ream End Explanation of Condition
Direction		E	110 1	East end.
End Treatment (Concrete, Steel,	CONCRETE	-		
Others, None)				
Headwall		6	5	Abrasion 25mm deep @ apron.
Collar		6	5	
Wingwalls		6	5	Vertical 2 mm wide cracks, leaching.
(Shape : <b>FLARE</b> )				
Cutoff Wall		5	5	Steel @ end of apron. Some reinforcing mesh exposed.
Bevel End		6	Х	
Heaving (mm)			7.	
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	600			-
Scour Protection		6	6	Concrete apron.
(Type : <b>RIP RAP</b> )		0	0	Riprap transitions to streambed.
				-
(Avg. Rock Size(mm) : <b>500</b> ) Scour/Erosion		6	6	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rati	ng	6	5	
		s	structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Stream makes bend at U/S end. Downstream is lined up to hit a bank which is now vertically eroded Erosion does not affect structure.
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM Not Visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1	NONE)			
(Fish Compensation Measure 2	· · · · · · · · · · · · · · · · · · ·			1

Structure Usage								
Last Now Explanation of Condition								
Channel General Rating	5	5						

			Maintenance Recomn	nendations					
Inspector Recommendations		Year	Inspector Comments	Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION		2012							
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/No (%)	ow)	22.2/55.	6 Sufficiency Rating (Last/Now) (%)	21.7/38.1	<b>21.7/38.1</b> Est. Repl. Yr 2030		Maint. Re	qd. (Y/N)	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	Jason F	Rusu	Previ	us Assistant's Name					
Next Inspection Date 30-Jul		2013	Previ	bus Inspection Date 29-Nov-2009					
Inspection Cycle (Default) (months) 21									
Comment									