Bridge Culvert Inspection														
Bridge File Number 70047		70047 -1	47 -1 Bridge Culvert				Form Type			CUL1				
Year Built 1959						Lot No.			4					
Bridge or Town	Name C	CAYLEY	Y			Inspector Name		Garry Roberts						
Located Over	Т		ARY TO MOS		REEK,		Inspector Class		BR CLS A					
Loostad On	2	2.12.12.	12.6, WATER	1 22 261			Assistant Name							
Water Redy CL	Z Voor	2.10 L1 3	32.294,2.10 KT 32.301				Assistant Class							
Navigabil CL/X							Inspection Date		26-Jan-2010					
Navigabil. Cl./Year						Data Entry By			Erin Roberts					
Legal Land Location SE SEC		· / IVVF I/ NGE 20 VV4IVI				Data Entry Date			04-Mar-2010					
Pood Authority Alberta		Franchartation		Re		Reviewer Name		Tom Carey						
Contract Main Area CMA27						Review Date			02-Feb-2010					
Clear Roadway/Skew 22 / -45		2 / -45	deg (LHE)					Dept. Reviewer Name		Lorenz Bohnert				
ADT/Voor 10 500		<u>-</u> 2 / - <del>-</del> 3 (	/ 2008 (A)				Dept. Review Date			08-Mar-2010				
Road Classificat	tion F	RFD-412	2 4-130				Follow-Up By							
Detour Length (	km) 1						-							
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	960	2260		SPE		79.2		152X51	4.0	ELLIPSE		
Special Features	Decial Features STORM WATER DRAIN			1										
Special Features Comment														
Litility Attachmo	oto				Ut	lities (L	ocated	at)						
Telephone West ditch						Gas			Sourc	r gas 20m porth				
Power	Directly	the over culvert mainline					Munici	Municipal						
Others	Fibre or	ontics west r/w					Problem (Y/N) No							
Remarks Maior transmission line above pipe - 12				2 wires		1 100101								
	Approach Road / Embankment													
					Last	Now	Explar	Explanation of Condition						
Horizontal Alignment				6	6	Curve	o south -	300m.						
Vertical Alignment					7	6	Hill 300	m south						
Roadway Width (m)		22.000												
Embankment				7 7										
Sideslope (:	:1)		3.0											
(Height of Cov	/er (m) : 2	2)												
Guardrail (Y/N)			No											
Approach Road	d / Emba	ankmen	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explan	ation of	Condit	tion				
Direction				W		West e	nd.							
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall			X	X										
Collar				X	Х									
Wingwalls				X	X									
(Shape : )														
Cutoff Wall				X	X									

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		5	6	MINOR DAMAGE @ SOUTH						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	50									
Scour Protection			6							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size (mm) : <b>250</b> )										
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Upstream End General Rating			6							
		Brid	lge Cu	Ivert Barrel						
Culvert Component	tion Coder MAINI Cro		NOW	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)	): 1960	, Rise (mm): 2260, Type: SPE)						
Barrel Last Accessible Date	26-Jan-2010									
Special Features										
Special Feature		7	7	In Ring 17						
(Type : STORM WATER DRAI	<b>N</b> )									
Special Feature										
(Type : )										
Roof		6	6	Hole in roof 150mm dia 3m from d/s						
Measured Rise (mm)	2195									
Measured At Ring No.	18									
Sag (mm)	65									
Percent Sag	2									
Sidewall		6	5							
Measured Span (mm)	2000									
Measured At Ring No.	20			-						
Deflection (mm)	40									
Percent Deflection	2									
Floor	-	4	N	Ice covered						
Bulge (mm)	0									
Measured At Ring No				-						
Abrasion (Y/N)	No			-						
		5	Δ	Missing 8 holts at R30-31 and 5 holts at R10-11. Several others with						
			-	loose or missing bolta						
			Λ	Nut/holt missing at random/usually at 2 ply corpore						
Total No. of Cracked Pinge	0	5	4	Bolts only hand tight, not all are torqued down, @ upper longit. @						
Total No. of Rings with Two Cracked Seams				20% seams. 12mm gap between plates at 2 o'clock. 1N stagger						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N) Yes										
Coating		4	4	Rusting at floor bolts/corrosion at						
Corrosion By Soil (Y/N)	Yes		· ·	bolts roof and walls (water and soil) superficial corrosion on floor &						
Corrosion By Water (Y/N)	Yes			e root exterior @ u/s.						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm	): 1960	, Rise (mm): 2260, Type: SPE)					
Fish Passage Adequacy			5						
Baffle		X	Х						
(Type : )									
Waterway Adequacy		8	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	Drift (Y/N) No								
Barrel General Rating			4						
		ream End							
Culvert Component		Last	Now	Explanation of Condition					
Direction		E		East end.					
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall			X						
Collar			X						
Wingwalls		X	X						
(Shape : )									
Cutoff Wall			X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		N	6	BEVEL PROJECTS 300 mm FROM FILL @ N					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size (mm) : 200)			1						
Scour/Erosion			6						
Beavers (Y/N)	No								
Downstream End General Ratir	ng	7	6						
		re Usage							
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			6	Curves N 90 deg @ W No defined channel @ u/s					
Bank Stability			7						
HWM (m below Top of Culvert)	HWM (m below Top of Culvert)			Hwm not visible.					
Drift (Y/N)	No								
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			6						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comm	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	<b>PFF</b>											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION										_		
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow) (	55.6/44. <sub>4</sub>	4 Sufficiency Rating (Last/N (%)	ow) 6	<b>5.5/56.9</b> Est. Repl. Yr 2020		2020	Maint. Reqd. (Y/N) No		No		
Special Comments for Next Inspection			ects, (GR Jan 26, 2010)		Department Comments							
Maintenance Reviewed By					Date	Estimated Total 0						
Proposed Long-Term Strategy							· ·					
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Jason R	Rusu		Previous A	Assistant's Name							
Next Inspection Date 26-		26-Oct-2011 F			vious Inspection Date 13-Dec-2007							
Inspection Cycle (Default) (months) 21			1									
Comment												