				E	Rrido	ie Culve	ert Insn	ection							
Bridge File Nu	mber	71384	-1 Bridge Culve		Bridge Culvert Insp					CUL1					
Bridge File Number 71384 -1 Bridge Culvert  Year Built 1976							Form Type Lot No.		1						
Bridge or Town Name COLD LAKE									Wade Nanninga						
Located Over MARIE CREEK, 7.7, WATERCRS							Inspector Name Inspector Class			BR CLS A	ya				
Located Over			C1 32.002	VATEROIS	-01		Assistant Name		DIX CLO A						
Water Body Cl	Voor	33.10	71 32.002				Assistant Class								
									00 4 0040						
Navigabil. Cl./Year			C 17 TMD 62 F	DCE 2 WAN			Inspection Date Data Entry By			09-Apr-2012					
<u> </u>										Lisa Fairhurst					
								ntry Date		25-Apr-2012					
Road Authority Alberta Contract Main. Area CMA08			. ,					Reviewer Name Review Date			Eric Carcoux				
Contract Main. Area CMA08 Clear Roadway/Skew 13.4 /			)			25-Apr-2012									
Clear Roadway/Skew   13.4 /			2044 (A)						Dept. Reviewer Name						
	_4:						Dept. Review Date		04-May-2012						
Road Classific			13.4-120	Follow-Up By											
Detour Length		3													
Bridge Culver		ation	1												
Number of Cul	Barrel		1 Span	Rise (or D	ia \	Туре	l on eth			Corr. Profile	Pl./Slab	Shape			
ripe #	Darrei		Эрап	Kise (oi D	ia.)	Type		Length		Con. Frome	Thickness	Snape			
1	MAIN		-	4095		SP		67.1		152X51	3.5	ROUND			
Special Featur	es														
Special Featur	es Com	ment													
								- 4)							
Little Attacker					Ut	ilities (L	_ocated	at)							
Utility Attachm			L -1:4-1				0								
Telephone Plowed in both ditches.							Gas								
Power 2 wires OH 30m North of c/l.						Municipal Drakes (V/N) No.									
Others  Remarks BF tag installed @ top of North end roo							Proble	Problem (Y/N) No							
Remarks	BF tag	g installe	ea @ top or Nor			ah Daar	d / Emb	ankment							
					_ast		1			tion					
Horizontal Alig	nment				7	7	Explanation of Condition Farm entrance both ways								
Vertical Alignm					7	7	Crest curve to east, no passing.								
Vertical Alignii	iciit				,	'									
Roadway Widt	h (m)		13.400												
.,	, ,														
Embankment					5	5									
Sideslope (_			2.5												
(Height of Co		: <b>7.5</b> )													
Guardrail (Y/N)	)		Yes												
Approach Roa	ad / Eml	bankme	nt General Rat	ting	7	7									
						Upstre	am End								
Culvert Comp	onent				ast			nation of	Condi	tion					
Culvert Component  Direction				N		INOW	LAPIAI	iation or	Condi	LIOII					
End Treatment	t (Concr	ete, Stee	el, CONCRETE		<u> </u>										
Others, None) Headwall					X	X									
Collar					5	5	Should	Shoulder slabs have separated and dropped 250mm.			ı.				
										•	••				
Wingwalls					Х	X									
(Shape: )					N.1										
Cutoff Wall	Cutoff Wall				N	N									

		Unetro	am End					
		T '	Explanation of Condition					
			Explanation of Condition					
150	,	/						
			_					
800		T -	2.0					
	5	5	2.0m crown to water.					
		Ι_						
	5	5						
No								
		T _						
	5	5						
	Bri	dge Cu	Ivert Barrel					
	Last	Now	Explanation of Condition					
tion Code: MAIN, Spa	ın (mm	າ):	, Rise (mm): 4095, Type: SP)					
09-Dec-2002			Viewed from ends, shape looks good. Water too deep.					
	N	N	(Particularly noticeable at point D/S where culvert extended. Creases					
			and torched bolt holes at 5th ring from U/S north. 01/03/21)					
			Sag estimated.					
135								
	N	N	(Measured span 4.315 near c/l. 01/03/21)					
4315	- ' '		(Sidewall is wavy and shape non-consistent.) 14Jul10					
4010								
220			(Sidewall 5.1%. 01/03/21)					
-								
0								
0	IN	IN	-					
U								
N <sub>1</sub> -								
INO								
	N	N	(Many loose or missing bolts throughout barrel. Est 5% - rated what's visible/accessible. 16/Nov/2006)					
0			<u>'</u>					
Longitudinal Seams  Total No. of Cracked Rings 0		N	(Ice is above springline this inspection. 2002/12/04) (Numerous loose bolts or missing nuts / bolts. 16/Nov/2006)					
0			(14411161043 10036 Dolla of Hilasing Huta / Dolla. 10/1404/2000)					
No								
			2N stagger					
	N	N	(Rust leeching near D/S end, middle of plate. Some rusting at water					
Yes	14	14	interface - upper barrel in good condition. Leakage into pipe from					
			roof at R3. 2002/12/09)					
			· · · · · · · · · · · · · · · · · · ·					
Yes								
	135 5 4315 0 No 0	BELOW 800 5  No 5  No 5  Bri Last tion Code: MAIN, Span (mm 09-Dec-2002  N  135 5  N  4315  N  0  N  0  N  0  N  0  N  0  N  N  0  N  N	7   7   150   BELOW   800   5   5   5       No					

71384 -1 Bridge Culvert

		Bric	lge Cu	vert Barrel								
Culvert Component		Last	Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 4095, Type: SP)								
Fish Passage Adequacy		8	8									
Baffle		Х	Х									
(Type:)												
Waterway Adequacy		8	8									
Icing (Y/N)	No											
Silting (Y/N)	No											
Drift (Y/N) No												
Barrel General Rating		4	4	G.R. carried forward from 16/Nov/2006 but last barrel access was 09/Dec/2002.								
Downstream End												
Culvert Component		Last	Now	Explanation of Condition								
Direction		S		0.5m crown to water								
End Treatment (Concrete, Steel, Others, None)	STEEL											
Headwall		Х	X									
Collar		Х	X									
Wingwalls		Х	X									
(Shape: )												
Cutoff Wall		Х	X									
Bevel End		N	N									
Heaving (mm)	100											
Invert Above/Below Stream Bed BELOW												
Above/Below (mm) 1200												
Scour Protection			7									
(Type : RIP RAP)												
(Avg. Rock Size(mm) : 350)												
Scour/Erosion		7	7	No evident problems.								
Beavers (Y/N)	No											
Downstream End General Ratio	ng	6	6	GR carried fwd.								
		s	tructu	re Usage								
		Last	Now	Explanation of Condition								
Channel (U/S and D/S)												
Alignment			8									
Bank Stability		8	8									
HWM (m below Top of Culvert)				HWM not visible.								
Drift (Y/N)	No											
Channel Bottom Degrading/Aggrading												
Beavers (Y/N)	No											
(Fish Compensation Measure 1 :	NONE)											
(Fish Compensation Measure 2 :	NONE)											
Channel General Rating		8	8									

				Maintena	ince Recommend	ations					
Inspector Recommendations	Y	Year Inspector Comments				Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS						·					
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LININ	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CU	OFF										
REPAIR SEAMS											
OTHER ACTION		2012	Dewater & perform Level II to determine condition & extent of loose/missing bolts. (If n done)								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/ (%)	Now) 4	14.4/44.4	4	Sufficiency Rating (%)	(Last/Now)	59.3/59.2	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Sha		Shane Hall				vious Assistant's Name					
		2014			Previous	nspection Date	14-Jul-2010				
Inspection Cycle (Default) (months) 21					, , , ,	,	, , , , , , ,				
Comment											