					Brida	e Culve	ert Insn	ection						
Bridge File Number 07005 -1 Bridge Culvert			- True	ge Culvert Inspectio Form Type				CUL1						
Year Built 1974					Lot N				4					
Bridge or Town Name COOKING LAKE						Inspector Name			Kris Bosters					
Located Over		TRIBUTARY TO COOKING LAKE, 72.3,				Inspector Class			BR CLS A					
		WATER	WATERCRS-ST					ant Name		Brian Cote				
Located On 14:06 C1 15.937							Assistant Class		Shari Gold					
Water Body CI	./Year				Inspection [					09-Jan-2013				
Navigabil. Cl./	Year						Data Entry By			Theresa Lacusta				
Legal Land Lo	cation	SE SEC	16 TWP 51 RGE 21 W4M				Data Entry Date		16-Jan-2013					
		50, 53:23:45				Reviewer Name		Eric Carcoux						
Road Authority Alberta		Transportation (AIT)					Review Date		09-Jan-2013					
Contract Main.	Area	CMA09			Dept. Reviewer Name									
Clear Roadway	y/Skew	13.3 / -3	0 deg. (LHF)		Dept. Review Date		18-Jan-2013							
AADT/Year		5,840 / 2	340 / 2011 (A)				Follow-Up By							
Road Classific	ation	RAU-21	RAU-213.4-120				- Ollow-Op By							
Detour Length	(km)	6												
Bridge Culver		nation												
Number of Cul	verts		1	I		I				I				
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1724	1901		SPE		41.5		152X51	2.8	ELLIPSE		
Special Featur										1	1-10	,		
Special Featur		ment E	BF tag on S en	d.										
Ороский			g											
					Uti	ilities (L	ocated.	at)						
Utility Attachm														
Telephone N ROW							Gas							
Power						Municipal								
Others							Proble	Problem (Y/N) No						
Remarks														
							/ Embankment							
Llawina mtal Alia	Horizontal Alignment						Approaches east & west of pipe approx 50 m each way. Crest curve							
					7	7	to east.					way. Crest curve		
Vertical Alignment  Roadway Width (m) 13.300					/									
Roadway Widt	.11 (111)		13.300											
Embankment					8	8								
Sideslope (_	_:1)		5.0											
(Height of Co	over(m)	: 0.8)												
Guardrail (Y/N)	)		No											
Approach Roa	Approach Road / Embankment General Rating			ina	7	7								
	,			9										
						Upstre								
Culvert Component					Now	Explar	ation of (	Condi	tion					
End Treatment (Concrete, Steel, STEEL			S											
End Treatment Others, None)	t (Concr	ete, Steel	, SIEEL											
Headwall			Х	Х										
Collar	Collar				X	X								
Wingwalle				X	X									
Wingwalls (Shape: )			^	^	-									
(Shape: ) Cutoff Wall			X	X										
Outon vvan					^	^								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	-	6	6	Minor damage4 to top of bevel from equipment.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection	10	N	N	Snow covered
(Type: NATURAL)			11	Onow covered
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
GCOUI/E103I0I1		14	11	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Rri	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			·
Barrel Last Accessible Date	07-Jan-2013	Span (IIIII	.,. 1724	, (). 1001; 13po. 01 L)
Dailer Last Accessible Date	01-3411-2013			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		·		
Roof		5	5	Small slash in roof from lawn mower near north invert 25mm x
Measured Rise (mm)	1922			200mmMar, 2003 Not found
Measured At Ring No.	6			Ice in bottom(~100mm)
Sag (mm)	21			
Percent Sag				
Sidewall		5	3	Several loose and over torqued bolts.
Measured Span (mm)	1718			1
Measured At Ring No.	6			- (6mm isolated perforations at 4:00 on R5,11photo (typical)
Deflection (mm)	6			
Percent Deflection				
Floor		4	4	Pitting bottom 1/4 pipe.
Bulge (mm)	0	4	+	Thung souton 1/4 pipe.
Measured At Ring No.				
Abrasion (Y/N)	Yes			
, , ,	1 53			Missing 8 Josepholto on tan siraumfarantial asset DO 7 0 40
Circumferential Seams	15	5	5	Missing & loose bolts on top circumferential seam R2, 7, 9, 10. Estimated 6 bolts missing.
Separation (mm)	15	_	T =	
Longitudinal Seams		5	5	several loose bolts. Several over torqued bolts.
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	3	Pitting rust along floor, and lower seam.
Corrosion By Soil (Y/N)	Yes			Small isolated perforations at 4:00 caused by soilside.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			

07005 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last		Explanation of Condition					
(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)									
Fish Passage Adequacy		7	7						
Baffle			Х	,					
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No			Rock.					
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		5	3						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL		_						
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End		7	7	Small trees growing around bevel.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	100								
Scour Protection		N	N	Snow covered					
(Type : <b>NATURAL</b> )									
(Avg. Rock Size(mm) : )									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	7	7						
		S	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
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		7	7						

		Maintenance R	ecommend	lations					
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	6								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/33	55.6/33.3 Sufficiency Rating (Las (%)		61.4/50.0	Est. Repl. Yr	2024	2024 Maint. Re		No
Special Monitor soil side condens for Next Inspection	rrosion locations	and size.		Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Todd Warshaw	ski	Assistant's Name						
Next Inspection Date	09-Oct-2014		Previous	Inspection Date 09-Feb-2011					
Inspection Cycle (Default) (months)	21								
Comment									