					Brida	o Culvo	rt Inch	nction						
Bridge File Nu					Billag	e Cuive	Form Type		CUL1					
Bridge File Number 01674 -1 Bridge Culvert  Year Built 1973						Lot No	• •		2					
			EOD VALLE			Inspector Name			Eric Carcoux					
Located Over	TName	TRIBUTARY TO MCLEOD RIVER,					Inspector Class			BR CLS A				
Localed Over		8.11.107	8 11 107 10 MATERCRS_ST					ant Name		DIX OLO /X				
Located On 32:10 C1 6.353							Assistant Class							
Water Body Cl	./Year					Inspection Date				14-Oct-2012				
Navigabil. Cl./	⁄ear						Data Entry By		Theresa Lacusta					
Legal Land Location NW		NW SEC	.I\M SEC 20 T\MD 57 DGE 13 \M5M					Data Entry Date		06-Jan-2013				
		1_115·54·23 53·56·50					Reviewer Name			Stew Hagan				
		Alberta Transportation (AIT)					Review Date		12-Dec-2012					
Contract Main. Area CMA12		CMA12						Dept. Reviewer Name						
Clear Roadway	//Skew	8.3 / 7 d	.3 / 7 deg. (RHF)					Dept. Review Date		18-Jan-2013				
AADT/Year		1,950 / 2	2011 (A)				Follow-Up By		10 0011 2010					
Road Classific	ation	RAU-20	9-110				- Click Op by							
Detour Length	` '	3												
Bridge Culver														
Number of Cul			1	I		T		I		I				
Pipe #	Barrel	5	Span	Rise (or I	Dia.)	Type		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		2019	2226		SPE		118.3		152X51	3.0	ELLIPSE		
Special Featur			2010	2220		01 L		110.0		102/101	0.0	LLLII OL		
Special Featur		ment	Tagged on u/s	end										
Opeoidi i edidi	00 00111	mont	ragged on a/e	Oria.										
					Ut	ilities (L	ocated	at)						
Utility Attachm	ents													
Telephone Both sides.						Gas								
Power					Munici									
Others						Proble	m (Y/N)	No						
Remarks								_						
				_				ankment	Samali.	· ·				
Horizontal Alig	nmont				<b>Last</b> 6	NOW 6	In sag. Horizontal curve North & South.							
					6	6	III Say. Horizoniai curve North & South.							
Vertical Alignment			8.300		- 0	0								
Roadway Width (m) 8.300			8.300											
Embankment				N 5										
Sideslope (_	_:1)		3.0											
(Height of Co	ver(m)	: 10)												
Guardrail (Y/N)	)		Yes					ide only.						
Annyasah Da	ad / Emal	hankman	t Canaral Bat	ina										
Approach Roa	ad / Emi	bankmen	it General Kat	ing	6	6								
						Upstre	am Enc							
<b>Culvert Comp</b>	onent				Last	Now	Explar	ation of C	Condi	tion				
Direction					W									
End Treatment Others, None)	(Concr	ete, Steel	I, STEEL											
Headwall					Х	X								
Collar	Collar				Х	Х								
Wingwalls			Х	Х										
(Shape: )														
Cutoff Wall				Х	Х									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		3	3	Bevel end has been bent up and tornphoto
Heaving (mm)	1300			· · ·
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>800</b> )				
Scour/Erosion		4	5	
Goodi/Erodion		'		
Beavers (Y/N)	No			
			_	
Upstream End General Rating		3	3	
		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			·
Barrel Last Accessible Date	15-Dec-2010	(	,	
	13 233 2310			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		3	3	
Measured Rise (mm)	2052			
Measured At Ring No.	15			
Sag (mm)	174			
Percent Sag	8			
Sidewall		3	3	Small isolated perforation South sidewall @ R30.
Measured Span (mm)	2218			
Measured At Ring No.	10			
Deflection (mm)	199			
Percent Deflection	10			
Floor	1.0	N	5	
Bulge (mm)	0	- 1		
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0	O	U	
	V	5		Togr in ping from odge of structural plate to halt hale @ D24 (Courth
Longitudinal Seams Total No. of Cracked Pings	0	5	5	Tear in pipe from edge of structural plate to bolt hole @ R31 (South side upper seam).
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		6	6	Superficial rust along floor. Rust stains through bolt holes.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

01674 -1 Bridge Culvert

		Brio	dge Cul	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm	): 2019	, Rise (mm): 2226, Type: SPE)					
Fish Passage Adequacy		3	3	Hanging outlet.					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		4	4	Inlet bent up.					
Icing (Y/N)	Yes			Within 500 mm of crown at outlet.					
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		3	3						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End		4	4	Bevel is cantilevered 1.2m.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	1500								
Scour Protection		N	5	Class III placed in attempt to prevent further damage.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 800)			1						
Scour/Erosion		N	5						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	4	4						
		s	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment		6	6						
Bank Stability		5	5						
HWM (m below Top of Culvert)				Silt has been deposited on banks to height of crown.(photo)					
Drift (Y/N)	No			Would be partially due to reduced capacity at inlet.					
Channel Bottom Degrading/Aggrading  DEGRADING									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	6						

		Maintenance I	Recommend	lations					
Inspector Recommendations	Year	Inspector Comments	<b>TCCO</b> IIIIICIIC	Department Comr	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS	7.00.			2 oparument com			raiget rear	2011 0001	- Cut II
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2013	At u/s end.							
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Cut off u/s bevel.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 33.3/33	Sufficiency Rating (Las	y Rating (Last/Now)		Est. Repl. Yr	2013 Maint. Re		qd. (Y/N)	Yes
Special Culvert is schedule Next Inspection	d for replaceme	nt in conjunction with hwy 32 likely 20	012 or 2013.	Department Comments					
Maintenance Reviewed By				Date		E	stimated Total	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Kris Bosters Previo			s Assistant's Name					
Next Inspection Date	14-Jul-2014		Previous	Inspection Date 15-Dec-2010					
Inspection Cycle (Default) (months)	21								
Comment									