					Brida	e Culve	ert Insp	ection					
Bridge File Nur	nber	74163 -1	Bridge Culver	rt .	Dirag	o ourve	Form 1			CUL1			
Year Built 1985			-			Lot No.		4					
Bridge or Town	Name	LUNDBF	RECK				Inspector Name		Garry Roberts				
Located Over			N CREEK, 2.12	2.48.11, V	WATERCRS-		Inspector Class		BR CLS A				
		ST	·				Assistant Name						
Located On		22:08 C	1 20.107				Assistant Class						
Water Body Cl.	/Year						Inspection Date		16-Jun-2012				
Navigabil. Cl./Y	'ear						Data Entry By		Erin Roberts				
Legal Land Loc		SE SEC	6 TWP 12 RGE 1 W5M			Data Entry Date		17-Jul-2012					
Road Authority Alberta T		22, 49:58:00				Reviewer Name		Joel Wozney					
Road Authority Alberta Tr. Contract Main. Area CMA26		ransportation (AIT)				Review Date		27-Jun-2012					
								Tim Davies					
Clear Roadway/Skew 12.6 / -3 (deg. (LHF)				Dept. Review Date		17-Jul-2012					
AADT/Year		1,980 / 2					Follow	·Up By					
Road Classifica	ation	RAU-21	11.8-110				. 5.1511 SP By						
Detour Length		18											
Bridge Culvert													
Number of Culv	/erts	1						I		I	1		
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Type	Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	_		1800		SP	125.6			152X51	3.0,4.0	ROUND	
Special Feature				1000		OI	125.6			102/101	3.0,7.0	INCOND	
Special Feature		ment											
Opecial i catalo	33 001111	ment											
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone West ditch.						Gas 100m I			North.				
Power	1 wire	e 100m to North & 2 wire 100m N			W.		Municipal						
Others	Fibre optics @ East r/w.					Problem (Y/N) No							
Remarks													
				A				ankment					
							Explanation of Condition						
Horizontal Alignment			6	6	_								
	Vertical Alignment				6	6							
Roadway Width	Roadway Width (m)		11.500										
Embankment			_	6	6	Ditch armoured @ SE & NE.							
Sideslope (·1)		3.0			Dich difficulty & CE & IVE.							
(Height of Co	· ·	18)	0.0										
Guardrail (Y/N)		,	Yes										
200.01011 (1714)													
Approach Roa	d / Eml	bankmen	t General Rati	ing	6	6							
						Unetre	am End						
Culvert Compo	onent				Last	Upstre Now		ation of	Condi	tion			
Direction	JIIGIIL				E	14044	East.	anon or	Jonal				
End Treatment (Concrete, Steel, STEEL		STEEL		_		Last.							
Others, None)	(501101)		, 0.222										
Headwall					Х	X							
Collar	Collar			Х	Х								
Wingwalls				X	X								
							-						
(Shape :) Cutoff Wall					Х	X							
Cuton Wan						_ ^							

			Unctro	om End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		Last	NOW 5	Steep slope into bevel
	400	3	<u> </u>	Steep slope into bever
Heaving (mm) Invert Above/Below Stream Bed	400			
	0			
Above/Below (mm)	0		1	
Scour Protection		5	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			Ι.	
Scour/Erosion		5	4	Water eroding both sides of bevel.
Beavers (Y/N)	No			
Upstream End General Rating		5	4	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S			, Rise (mm): 1800, Type: SP)
Barrel Last Accessible Date	16-Jun-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof	I	7	7	
Measured Rise (mm)	1735			
Measured At Ring No. 18				
Sag (mm)	65			
Percent Sag	3		_	
Sidewall	I	7	7	Water piping through isolated rings
Measured Span (mm)	1860			
Measured At Ring No.	16			
Deflection (mm)	60			
Percent Deflection	3			
Floor		4	4	Corrosion Holes 20-40mm dia @ floor rings 18 + 19.
Bulge (mm)	0			Isolated perforations throughout middle rings starting at Ring 18
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	Total No. of Rings with Two 0			
Min. Remaining Steel Between Cracks (mm)				3N stagger
Proper Lap (Y/N) Yes				
Longitudinal Stagger (Y/N)	Yes			
	. 55	4	4	Corrosion holes @ floor @ rings 20 + 21 - 20-40mm dia
Coating Corresion By Soil (V/N) Ves		4	-	Corrosion staining through longitudinal seams @ lower haunches
Corrosion By Soil (Y/N) Yes Corrosion By Water (Y/N) Yes				rings 20 to 25.
				Isolated perforations to floor throughout middle rings.
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1800, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		5	5	First 2 rings drop 1m steep fast flow					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	5	Some flow pooling on either side of U/S bevel, traveling under bevel.					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		Х	Х						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	150								
Scour Protection		5	5						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		5	5	Bevel projects 600mm above slope @ North side - from cattle action.					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S) Alignment		7	7						
Bank Stability		5	5						
HWM (m below Top of Culvert)				No visible HWM					
Drift (Y/N)	Yes			Minor drift in channel					
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

			Mainten	ance Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 77.8/	77.8	Sufficiency Ratin	Sufficiency Rating (Last/Now) (%)		Est. Repl. Yr	2035 Maint. Re		qd. (Y/N)	No
Special Comments for Next Inspection					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	Garry Rober	ts		Previous	ious Assistant's Name					
Next Inspection Date	16-Mar-2014			Previous	Inspection Date	07-Oct-2010				
Inspection Cycle (Default) (months)	21									
Comment										