Bridge Culvert Inspection												
Bridge File Numb	er 13814	-1 Bridge Culver	rt			Form Type		CUL1				
Year Built 1949					Lot No.			2				
Bridge or Town N	ER CREE	R CREE			Inspector Name		Jason Rusu					
Located Over TRIBUT		TARY TO KETTLES CREEK,			Inspector Class		BR CLS A					
Located On 6:04 C1		1.4.1, WATERORS-ST				Assistant Name						
Water Body CL/Year					Assistant Class		00.0-1.0044					
Navigabil. Cl./Yea	ar					Inspection Date		30-Oct-2011				
Legal Land Locat	ion SE SE	C 14 TWP 6 RG	E 30 W4N	M		Data Entry By Eri						
Longitude, Latitud	de -113:50	6:01, 49:27:59				Data Entry Date		Carry Poborte				
Road Authority Alberta		Transportation	(AIT)						Garry Roberts			
Contract Main. Area CMA26		3				Dent Reviewer Name						
Clear Roadway/S	Skew 16 /					Dept. Reviewer Name		1 Doc 2011				
AADT/Year 1,170 /		2010 (A)				Follow-I In Ry		01-Dec-2011				
Road Classification	on RAU-2	11.8-110				топом-ор бу						
Detour Length (kr	m) 3											
Bridge Culvert In	nformation											
Number of Culver	rts	1							I	1		
Pipe # B	be # Barrel		Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 M	IAIN	2135	2135		BP		65.5				RECTANGLE	
Special Features DROP STRUCTURE												
Special Features Comment												
				1 14	ilitios (l	ocatod	at)					
Utility Attachment	ts			01	inties (L	ocaleu	atj					
Telephone South ditch.						Gas						
Power 2 lines crossing 60m East					Municip	bal						
Others					Probler	m (Y/N)	No					
Remarks H2O line on floor of box @ South side encased 90 degree in concrete.												
Approach Road / Embankment												
			Last	Now	Explanation of Condition							
Horizontal Alignment			5 5		5	Sharp curve 100 m West Steep grade to East, est grade 7%						
Vertical Alignment			4		4	Also go	Also goes under 5m farm access road @ North.					
Roadway Width (m)		11.000										
Embankment				4	4	Erosion to SW landow		ner constructed barriers to cattle grazing				
Sideslope (:1)		2.0										
(Height of Cover(m) : 8)												
Guardrail (Y/N) Yes		Yes										
Approach Road / Embankment General Rating		ing	4	4								
					Unstre	am End						
Culvert Compon	ent			Last	Now	Explan	ation of	Condi	tion			
Direction				W		South						
End Treatment (Concrete, Steel, CONCRETE				Landowner keeps gat should be removed		os gate ved	at inlet to keep	cattle out. Fend	ce catches drift			
Headwall		6	6									
Collar		Х	Х									
Wingwalls		4	4	Mediur	Medium scaling at corners of wingwall							
(Shape :)					modeling at corners of wingwait							
Cutoff Wall				X	X							

Alberta Transportation

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End	1	X	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm) 100									
Scour Protection			4						
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		4	4	Erosion @ West embankment photo recommended 5m x 3m x 0.5m of class 2 rip rap					
Beavers (Y/N)	No								
Upstream End General Rating		4	4						
		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2135	, Rise (mm): 2135, Type: BP)					
Barrel Last Accessible Date	30-Oct-2009								
Special Features									
Special Feature			6	A 1m drop structure and large concrete plunge pool has been					
(Type : DROP STRUCTURE)			1	constructed d/s of structure for irrigation					
Special Feature									
(Type:)									
Roof		3	3	Leaching with corrosion staining through wide crack @ U/S end from					
Measured Rise (mm)	2135			roof @ joint.					
Measured At Ring No	1			 Longitudinal cracking in 90% of the pipe. Longitudinal, transverse cracks in middle area of roof 5 mm wide - 26 m from u/s end - no change 					
Sag (mm)	0								
Barcent Sag	0			Iviap cracking. Twin longitudinal cracks in roof area 3 & 5mm width in same section					
Percent Sag				8m from U/S bend. Waterline exposed in South floor area.					
Sidewall		4	4	Spalls @ lower North sidewall - 50mm deep abrasion @ floor.					
Measured Span (mm)	2135		-						
Measured At Ring No.	1								
Deflection (mm)	0								
Percent Deflection									
Floor		4	4	Concrete on floor @ East side broken - exposing waterline, -					
Bulge (mm)	0		. ·						
Measured At Ring No.	1								
Abrasion (Y/N)	Yes								
Circumferential Seams		5	5						
Separation (mm)	10		-						
Longitudinal Seams		X	X						
Total No. of Cracked Rings	0		~						
Total No. of Rings with Two	0								
Cracked Seams	-								
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		X	Х						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last	st Now Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2135	, Rise (mm): 2135, Type: BP)				
Ponding (Y/N)	No							
Fish Passage Adequacy			4					
Baffle			Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
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	1	E		North				
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		5	5	Vertical cracks.				
Collar			Х					
Wingwalls			4	Some cracks and spalling on N wall.				
(Shape:)								
Cutoff Wall			5					
Bevel End		Х	Х					
Heaving (mm)								
Invert Above/Below Stream Bed	ABOVE			1m vertical drop at end of apron.				
Above/Below (mm)	1100							
Scour Protection		5	5	(12m area East of apron & cutoff wall is concrete-some cracking.)				
(Type : CONCRETE)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		5	5	457mm drainage culvert above SE wingwall drains ditch between farm access and Hwy 6.				
Beavers (Y/N)	No							
Downstream End General Ration	ng	4	4					
		s	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		5	5	Water enters structure @ 70 degree.				
Bank Stability		4	4	Vertical banks to SW& SE u/s 10m-50m				
HW/M (m below Top of Culvert)	10			Pine has flowed full, grass and drift accum @ SW foncing and				
Drift (Y/N) Yes				wingwall				
Channel Bottom DEGRADING				This drift and fencing will require removal to accomidate rip rap repair @ SW of inlet				
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		4	4					

Alberta Transportation

		Maintenance Recomm	endations						
Inspector Recommendations	Year	Inspector Comments	Department Comr	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2012	place 5m x 3m x 0.5m class 2@ SW corner behind and beside wingwall							
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	FF								
REPAIR SEAMS									
OTHER ACTION	2012	Remove U/S fence gate							
OTHER ACTION	2012	Request landowner to keep U/S area free of fencing							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No (%)	w) 33.3/33	.3 Sufficiency Rating (Last/Now) (%)	33.7/33.7	Est. Repl. Yr 2018	Maint. Re	qd. (Y/N)	Yes		
Special Comments for Next Inspection			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 Rusu	Previo	us Assistant's Name	Assistant's Name					
Next Inspection Date		Dravia	us Increation Date	29-Nov-2009					
	30-Jul-2013	Previo	us inspection Date	23-1107-2003					
Inspection Cycle (Default) (months)	30-Jul-2013 21	Previo	us inspection Date	29-1100-2009					