Bridge Culvert Inspection													
Bridge File Number 723		72399 -1 Bridge Culvert					Form Type		CULM				
Year Built 1969		1969	969							4			
Bridge or Town Name MUND			DARE					or Name		Jason Saly			
Located Over TRIBU WATEF			BUTARY TO NORRIS CREEK, 6.62.10.1,					or Class		BR CLS A			
Located On	1	16:22 L	22 1 12 012 16:22 R1 12 013					Assistant Name					
Water Body Cl./	/Year	-						nt Class		40.1.1.0040			
Navigabil. CI./Y	ear		1					ion Date		19-Jul-2012			
Legal Land Location NE SE			EC 12 TWP 53 RGE 19 W4M										
Longitude, Latitude -112:39		·112:39	:41, 53:34:13				Data El	ntry Date		ST-Jul-2012			
Road Authority Albe		Alberta	Transportation			Review			John O'Brien				
Contract Main. Area CM		CMA14	·		Dent Reviewer Name			Andrew Smikles					
Clear Roadway	/Skew 2	25 /					Dept. Reviewer Name				:5		
AADT/Year	1	10,610	/ 2011 (A)				Eollow-			02-Aug-2012			
Road Classifica	ition F	RAD-41	2.4-120				1 0110 00-	ор Бу					
Detour Length ((km) 1	1											
Bridge Culvert	Informa	tion											
Number of Culv	rerts		2			1							
Pipe #	Barrel		Span	Rise (or	Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2134	1549		RPP		70.7		152X51	3.0,3.0,2.8	PIPE ARCH	
2	MAIN		2134	1549		RPP		70.7		152X51	3.0,3.0,2.8	PIPE ARCH	
Special Feature	s												
Special Feature	es Comm	ient											
					1 14	lition /l	opatad	ot)					
Litility Attachme	onte				Οl	inties (L	ocaleu	al)					
Telephone Plowed in North ditch							Gas						
Power	3 wires OH 30m North of W/BL c/l						Municir	nal					
Others				2 0/1.			Probler	n (Y/N)	No				
Remarks													
Approach Road /							l / Emba	ankment					
				Last	Now	Explan	Explanation of Condition						
Horizontal Alignment					7	7	Intersection to SH 834 300 m to East.						
Vertical Alignme	ent				8	8							
Roadway Width	n (m)		25.000										
Embankment					6	6	South side is 5:1 then 3:1, North side is 6:1.						
Sideslope (:1)		3.0										
(Height of Cov	ver(m) : 1	1.8)											
Guardrail (Y/N)			No										
Approach Roa	d / Emba	ankmer	ent General Rating		7	7							
						Upstrea	Jostream End						
Culvert Component			Last	Now	Explan	ation of	Condi	tion					
(Pipe # : 1, Span Type: Primary Span)													
Direction			N		West c	ulvert.							
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				X	Х								
Collar			X	Х									
Wingwalls					X	Х							
(Shape:)													

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		N	5	Heavy scaling rust on floor.
Heaving (mm)	75			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		N	7	Abundance willow and poplar growing around beveled end. Grass
(Type : NATURAL)				well established in riprap.
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	N	5	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2134	, Rise (mm): 1549, Type: RPP)
Barrel Last Accessible Date	19-Jul-2012			West culvert.
Special Features	1			
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	5	Roof is slightly cusped & seams separated 13mm but everything else
Measured Rise (mm)	1555			looks good.
Measured At Ring No.	6			
Sag (mm)	6			
Percent Sag	0			
Sidewall		N	6	
Measured Span (mm)	2170			
Measured At Ring No.	6			
Deflection (mm)	36			
Percent Deflection	1			
Floor		N	N	Covered with 50-100mm silt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	5	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	3	Galvanizing in floor all sacrificed.
Corrosion By Soil (Y/N)	No		-	Heavy scaling.
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2134	, Rise (mm): 1549, Type: RPP)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy		X	6							
Baffle		X	X							
(Туре :)										
Waterway Adequacy		Ν	8							
Icing (Y/N)	No									
Silting (Y/N)	Yes			~100mm - minor.						
Drift (Y/N)	No									
Barrel General Rating		N	5							
				man Find						
Culvert Component		Last	Now	ean End						
(Pipe # : 1 Span Type: Primary	(Span)	Lasi	NOW							
Direction		c		West subject						
End Treatment (Congrete Steel	OTEEI	3								
Others, None)										
Headwall		X	X							
Collar			Х							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		N	6							
Heaving (mm)	75									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		N	7	Well vegetated.						
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Downstream End General Ration	ng	N	6							
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		Ν		East culvert.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	Х							
Collar		X	X							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		X	Х							

Bridge Inspection & Maintenance System (Web 2005)

72399 -1 Bridge Culvert

	Upstream End									
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)		_							
Bevel End		N	5	Heavy scaling rust on floor.						
Heaving (mm)	150									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	150									
Scour Protection		N	7	Abundance willow and poplar growing around beveled ends.						
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Upstream End General Rating		N	5							
		Brid	dge Cu	Ivert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	Cation Code: MA	IN, Span (I	mm): 2	134, RISE (MM): 1549, Type: RPP)						
Barrel Last Accessible Date	19-Jul-2012			E culvert.						
Special Features										
Special Feature										
(Туре :)										
Special Feature										
(Туре :)										
Roof		N	5	Roof is slightly cusped & seams separated 15mm but everything else						
Measured Rise (mm)	1580			looks good.						
Measured At Ring No.	6									
Sag (mm)	31									
Percent Sag	2									
Sidewall		N	6							
Measured Span (mm)	2155									
Measured At Ring No.	6									
Deflection (mm)	21			1 3%						
Percent Deflection	1									
Floor		N	N	Floor not visible due to dirty water.						
Bulge (mm)	0		-1	1 <i>´</i>						
Measured At Ring No.				1						
Abrasion (Y/N)	No									
Circumferential Seams		N	6							
Separation (mm)	0			1						
Longitudinal Seams		N	5							
Total No. of Cracked Rings	0		-	1						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating		N	3	Galvanizing in floor all sacrificed.						
Corrosion By Soil (Y/N)	No			Heavy scaling.						
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	NEG									

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 2 [.]	134, Rise (mm): 1549, Type: RPP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		Х	6							
Baffle		X	X							
(Туре :)										
Waterway Adequacy		N	8							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			5							
		D	ownsti	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		S		East culvert.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar			X							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		N	6	(Beveled end rotated 1 bolt hole from being set level. 05Feb2008) -						
Heaving (mm)	50			Unconfirmed.						
Invert Above/Below Stream Bed	BELOW			(Minor bend @ SW. 15-Mar-2006).						
Above/Below (mm)	250									
Scour Protection			7	Well vegetated.						
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	N	6							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		8	8							
Bank Stability			7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading										
Beavers (Y/N)	Yes									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

Maintenance Recommendations												
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												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow) t	55.6/55.0	6 Sufficiency Rating (Last/No (%)	ow) 6	68.6/66.1 Est. Repl. Yr		2015	Maint. Red	qd. (Y/N)	No		
Special Comments for Next Inspection	ro coatin	ng corros	ion at this time.		Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Owen S	Salava	P	Previous A	Assistant's Name							
Next Inspection Date 19-4		2014	P	Previous I	ious Inspection Date 16-Dec-2010							
Inspection Cycle (Default) (months)	21											
Comment												