					Rrida	e Culve	ert Inspect	tion							
Bridge File Numb	per	76171 -	1 Bridge Culve		71 C G	o ourv	Form Typ			CULM					
Year Built		1965					Lot No.			2					
Bridge or Town N	Name		GG				Inspector	· Name		Owen Salava					
Located Over			TARY TO NOR	TH SASKA	TCHI	EWAN	Inspector Class			BR CLS A					
		RIVER,	6.186, WATER	CRS-ST			Assistant Name			DI SEO //					
Located On		11:02 C	1 18.324				Assistant Class								
Water Body CI./Y	ear/						Inspection Date			08-Feb-2012					
Navigabil. Cl./Yea	ar						Data Entr			Marcia Chavez					
Legal Land Locat	tion	NW SE	C 19 TWP 35 F	RGE 17 W5	M		Data Entry Date			06-Mar-2012					
Longitude, Latitud	de	-116:25	:42, 52:01:39				Reviewer Name			John O'Brien					
Road Authority		Alberta	Transportation	(AIT)			Review Date			22-Feb-2012					
Contract Main. A	rea	CMA18						Name	e Andrew Smikles						
Clear Roadway/S	Skew	12.2 / -3	30 deg. (LHF)				Dept. Rev			09-Mar-2012					
AADT/Year		360 / 20	)10 (A)				Follow-U								
Road Classification	on	RAU-21	3.4-120				I onow of	p Dy							
Detour Length (k	m)	300													
Bridge Culvert I	nform	ation													
Number of Culve															
Pipe #	Barrel		Span	Rise (or D	ia.)	Туре	L	ength		Corr. Profile	Pl./Slab Thickness	Shape			
1 N	ΛΑΙΝ	2489 1753				RP	4:	2.7		152X51	3.5	PIPE ARCH			
2 N	ΛΑΙΝ					SPE	4:	2.7		152X51 3.5		ELLIPSE			
Special Features CONC FLOOR															
Special Features Comment															
Power Others	East r	t r/w.					Gas           Municipal           Problem (Y/N)         No								
Remarks							1/5-1								
				Ī.		Now	d / Emban Explanat		`andi	tion					
Horizontal Alignm	nont				Last 7	7				h limiting sight	distance No.r	assing SB			
Vertical Alignmer					6	6	Olest car	ve to the	5 30ui	ir iliriitiirig sigrit	distance. No p	assing ob.			
Roadway Width (			12.200			0									
Embankment					7	7									
Sideslope (:1	1)		4.0				1								
(Height of Cove	•	0.7)													
Guardrail (Y/N)	- ( )		No												
Approach Road	/ Emb	ankme	nt General Rat	ing	6	6									
						Upstre	am End								
<b>Culvert Compon</b>	nent			I	Last	Now	Explanat	ion of C	Condi	tion					
(Pipe # : <b>1, Spar</b>	n Type	: Prima	ry Span)												
				١	W		South ba	rrel.							
Direction		_	OTEEL												
End Treatment (COthers, None)	Concre	ete, Stee	SIEEL			1									
End Treatment (0	Concre	ete, Stee	STEEL		X	X									
End Treatment (COthers, None)	Concre	ete, Stee	II, STEEL		X	X									
End Treatment (0 Others, None) Headwall	Concre	ete, Stee	II, STEEL												

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			At streambed. Silted 150mm.
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brio	dge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2489	, Rise (mm): 1753, Type: RP)
Barrel Last Accessible Date	08-Feb-2012			
Special Features				
Special Feature		5	5	Abraded 25mm on top.
(Type : CONC FLOOR)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	2500			
Measured At Ring No.	4			
Deflection (mm)	11			
Percent Deflection	0			
Floor		N	N	Concrete covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
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				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Voc			

		Brid	dae Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	No flow, steep.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	D/S 1/3 length silted to within 1.0m of roof at outlet.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	r Span)			
		E		South barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls (Shape: )		X	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		5	5	Minor superficial rust & damage to end, south side.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction	I	W		North barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		X	X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		7	7	
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>200</b> )			_	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
Barrel Last Accessible Date	08-Feb-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2204			
Measured At Ring No.	9			
Sag (mm)	22			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2059			
Measured At Ring No.	9			
Deflection (mm)	40			
Percent Deflection	2			
Floor		7	7	Some cobbles on floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
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				1N.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Superficial corrosion on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Cambon Co/LLINO/INLO				1

			dae Cu	Ivert Barrel					
Culvert Component				Explanation of Condition					
-	ocation Code: MAIN, S			019, Rise (mm): 2226, Type: SPE)					
Ponding (Y/N)	No		•						
Fish Passage Adequacy		4	4	Perched outlet.					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7						
-									
				ream End					
Culvert Component	1	Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)	1_		I					
Direction End Treatment (Concrete, Steel, STEEL		E		North barrel.					
Others, None)	STEEL								
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		X	X						
Bevel End		5	5	Minor superficial rust on sides & superficial rust on floor.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE			End rotated 10 degrees counter clockwise.					
Above/Below (mm)	1000								
Scour Protection		4	4	Perched 0.5m - photo.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : <b>200</b> )									
Scour/Erosion		4	4	Erosion around/below bevel - photo.					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	4	4						
		•	tructu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)		Luot	11011	Explanation of containon					
Alignment		7	7						
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
<b>Channel General Rating</b>		7	7						

		Maintena	Maintenance Recommendations	ations					
Inspector Recommendations	Year	Inspector Comments		Department Comments	ments	L	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2012	Class II, 5m3 D/S bevel at N pipe.	oipe.						
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	(D								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF	OFF								
REPAIR SEAMS									
OTHER ACTION	2012	Remove silt & rock from D/S	from D/S 1/3 primary span.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	low) 77.8/77.8	.8 Sufficiency Rating (Last/Now) (%)		59.0/59.0	Est. Repl. Yr	2024	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Es	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previous	Previous Assistant's Name					
Next Inspection Date	08-Nov-2013		Previous	Previous Inspection Date	05-May-2010				
Inspection Cycle (Default) (months)	21								
Comment									

				Ma	intenance R	ecommen	dations							
Inspector Recommendations	•	Year	Inspecto	r Comments			Department C	comme	nts		Target Ye	ear	Est. Cost	Cat #
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP	2	2012	Class II,	5m3 D/S bev	el at N pipe.		Programmed				2012			
REMOVE DRIFT ACCUMULATION														
INSTALL CONCRETE/STEEL LINING	3													
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUT	OFF													
REPAIR SEAMS														
OTHER ACTION	2	Remove silt & rock from D/S 1/3 primary span.					ary Programmed							
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/N (%)	low)	77.8/77.		Sufficiency (%)	Rating (Last	/Now)	59.0/59.0	Es	t. Repl. Yr	2024	Maint	. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments	DA						
Maintenance Reviewed By	Darron	Ahlsted	t				Date	05-No	v-2012		Estimated <sup>-</sup>	Total	0	
Proposed Long-Term Strategy	2 3.1.011	,	•				720.0	100.10						
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name	Owen S	Salava				Previous	Assistant's Nar	ne						
Next Inspection Date	08-Nov-	-2013				Previous	Inspection Date	Э	05-May-2010	1				
Inspection Cycle (Default) (months)	21													
Comment														