					Bridg	e Culv	ert Inspecti	on				
Bridge File Nur	mber	76129 S	S-1 Bridge Cu				Form Type		CUL1			
Year Built		1992					Lot No.		4			
Bridge or Towr	n Name	FT MCN	IURRAY				Inspector N	lame	Wade Nannin	ga		
Located Over		2ND OF	DER TRIBU				Inspector (		BR CLS A	-		
HOR			CK, 8.11.40.				Assistant Name					
Located On		63:08 C	1 44.575;63:0	08 L1 PROP	OSE	)	Assistant C	Class				
Water Body Cl	./Year						Inspection		14-Nov-2011			
Navigabil. Cl./\	Year						Data Entry		Theresa Lacu	ısta		
Legal Land Location SE SEC 25			25 TWP 84 RGE 11 W4M				Data Entry Date		23-Nov-2011			
Longitude, Lati	itude	-111:35:	35:36, 56:18:17				Reviewer Name		Eric Carcoux			
Road Authority Alberta Transportat			Transportatio	n (AIT)			Review Date		23-Nov-2011			
Contract Main.	Area	CMA07	7									
Clear Roadway	y/Skew	15.2 / -4	3 deg. (LHF)				Dept. Revi		15-Dec-2011			
AADT/Year							Follow-Up		10 Dec 2011			
Road Classifica	ation	RAU-21	3.4-120				I ollow op	Dy .				
Detour Length	(km)	250										
Bridge Culver	t Inform	ation										
Number of Cul	verts		1									
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре	Lei	ngth	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2610	2877		SPE	119	5.8	152X51	4.0	ELLIPSE	
Special Feature	es											
Utility Attachmo		ed in East	t ditch over cu	ulvert.	Uti	lities (l	Gas					
Power	3 wire	s 50m E	ast r/w.				Municipal					
Others							Problem (Y	′/N) No				
Remarks												
				Ар	proac	ch Roa	d / Embank	ment				
				l	Last	Now	Explanation	n of Cond	ition			
Horizontal Alig	nment				9	9			es SB. No pass	sing.		
Vertical Alignm	nent				6	6	Near km 1	90				
Roadway Widt	h (m)		13.200									
Embankment					5	5	Ditch gully	@ NE (30r	n x 3m x 3m) a	nd SE (100m >	( 1.0 x 1m).	
Sideslope (_	_:1)		2.5			Armoured with riprap. Springs in area make embankment soft & wet constantly. Tension				antly Tension		
(Height of Co	over(m) :	10.3)					cracks on i	oad ACP.	SHIDGHKINGHE SI	on a wer ourst	anity. 161131UH	
Guardrail (Y/N)	)		Yes									
Approach Roa	ad / Eml	bankmer	nt General Ra	ating	6	6						
							am End					
Culvert Comp	onent					Now	Explanation	on of Cond	ition			
Disastias					E		-					
			OTEEL									
Direction End Treatment Others, None)	t (Concre	ete, Stee	I, STEEL			1						
End Treatment Others, None) Headwall	t (Concre	ete, Stee	I, STEEL		X	X						
End Treatment Others, None) Headwall Collar	t (Concre	ete, Stee	STEEL		X	X						
End Treatment Others, None) Headwall Collar Wingwalls	t (Concre	ete, Stee	I, STEEL									
End Treatment	t (Concre	ete, Stee	I, STEEL		X	X						

			Unetro	am End
Culvert Component		Last		Explanation of Condition
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	100			
Scour Protection	100	6	5	Erosion along bevel- filled with rock
(Type : RIP RAP)				Liosion diong bever lined with rook
(Avg. Rock Size(mm) : <b>350</b> )				
Scour/Erosion		6	5	
00001/21001011				
Beavers (Y/N)	No			
Unatura on End Consuel Bating				
Upstream End General Rating		6	5	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm	): 2610	, Rise (mm): 2877, Type: SPE)
Barrel Last Accessible Date	10-Mar-2010			(2825 x 2620 @ 3/5 L. 01/07/11). Barrel 1/3 full with ice.
				Viewed from ends-no change.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag	5			Estimated.
Sidewall		4	4	
Measured Span (mm)	2825			
Measured At Ring No.	18			est
Deflection (mm)				
Percent Deflection	8			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Lower seams not visible.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				2N stagger.
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	(Minor superficial rust, lower third. 17/Aug/2006)
Corrosion By Soil (Y/N)	Yes			]
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid		vert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2610	, Rise (mm): 2877, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type:)				
Waterway Adequacy		7	7	(Within 600 mm of crown. 2003/03/13)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried fwd from March 2010.
		D		eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		X	X	
(Shape: )			_	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	7	
		S	Structu	e Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Turn North D/S.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

76129 S-1 Bridge Culvert

	Structu	re Usage
Last	Now	Explanation of Condition

Inspector Recommendations Year Inspector Comments Department Comments Target Year Est. SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION INSTALL CONCRETE/STEEL LINING INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION  Structural Condition Rating (Last/Now) (%) Special Comments for Next Inspection Maintenance Reviewed By  Date  Estimated Total 0  Estimated Total 0	
PLACE ADDITIONAL RIP RAP  REMOVE DRIFT ACCUMULATION  INSTALL CONCRETE/STEEL LINING  INSTALL STRUTS  INSTALL CONCRETE COLLAR/CUTOFF  REPAIR SEAMS  OTHER ACTION  OTHER ACTION  OTHER ACTION  OTHER ACTION  OTHER ACTION  Structural Condition Rating (Last/Now)  Special  Comments for Next Inspection  Maintenance Reviewed By  Date  Estimated Total  0	'N) No
REMOVE DRIFT ACCUMULATION INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION Structural Condition Rating (Last/Now) (%) Special Comments for Next Inspection Maintenance Reviewed By  Date  Estimated Total  0	/N) No
INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION  Structural Condition Rating (Last/Now) (%)  Special Comments for Next Inspection  Maintenance Reviewed By  Date  Estimated Total  0	'N) No
INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION  Structural Condition Rating (Last/Now) 44.4/44.4 Sufficiency Rating (Last/Now) (%)  Special Comments for Next Inspection  Maintenance Reviewed By  Date  Estimated Total 0	'N) No
INSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION  Structural Condition Rating (Last/Now) 44.4/44.4 Sufficiency Rating (Last/Now) 57.8/54.9 Est. Repl. Yr 2038 Maint. Reqd. (Y/(%))  Special Comments for Next Inspection  Maintenance Reviewed By  Date  Estimated Total 0	'N) No
REPAIR SEAMS OTHER ACTION  Structural Condition Rating (Last/Now) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%	'N) No
OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION  Structural Condition Rating (Last/Now) (%)  Special Comments for Next Inspection  Maintenance Reviewed By  Date  Est. Repl. Yr 2038 Maint. Reqd. (Y/	'N) No
OTHER ACTION OTHER ACTION OTHER ACTION OTHER ACTION  Structural Condition Rating (Last/Now) (%)  Special Comments for Next Inspection  Maintenance Reviewed By  Est. Repl. Yr 2038 Maint. Reqd. (Y/ Comments  Department Comments Comments Comments Comments Department Comments	'N) No
OTHER ACTION OTHER ACTION  Structural Condition Rating (Last/Now) (%)  Special Comments for Next Inspection  Maintenance Reviewed By  Sufficiency Rating (Last/Now) (%)  Sufficiency Rating (Last/Now) (%)  Department Comments Comments  Department Comments	/N) No
Structural Condition Rating (Last/Now) 44.4/44.4 Sufficiency Rating (Last/Now) 57.8/54.9 Est. Repl. Yr 2038 Maint. Reqd. (Y/(%))  Special Comments for Next Inspection  Maintenance Reviewed By  Date  Est. Repl. Yr 2038 Maint. Reqd. (Y/(%))  Department Comments  Department Comments  Date  Estimated Total 0	/N) No
Structural Condition Rating (Last/Now) 44.4/44.4 Sufficiency Rating (Last/Now) 57.8/54.9 Est. Repl. Yr 2038 Maint. Reqd. (Y/(%))  Special Comments for Next Inspection  Maintenance Reviewed By  Date  Est. Repl. Yr 2038 Maint. Reqd. (Y/(%))  Department Comments  Department Comments  Date  Estimated Total 0	(N) No
(%)     (%)       Special Comments for Next Inspection     Monitor erosion around inlet.       Maintenance Reviewed By     Date       Estimated Total     0	/N) No
Comments for Next Inspection  Maintenance Reviewed By  Date  Estimated Total 0	
Proposed Long-Term Strategy	
On 3-Year Program (Y/N)	
Proposed Action Proposed Action	
Previous Inspector's Name Wade Nanninga Previous Assistant's Name	
Next Inspection Date 14-Aug-2013 Previous Inspection Date 10-Mar-2010	
Inspection Cycle (Default) (months) 21	
Comment	