					Brido	e Culve	ert Inspe	ection					
Bridge File Number 70824 -1 Bridge Culvert							Form T		CUL1				
Year Built		1951						Lot No.					
Bridge or Towr	n Name	TORRIN	IGTON					or Name	Owen Salava	·			
Located Over		TRIBUT	ARY TO SPRI		EK,			or Class	BR CLS A				
		3.46.24.	2, WATERCR	S-ST		Assistant Name				-			
Located On		27:08 C	1 21.173				Assista	nt Class					
Water Body Cl								ion Date	24-Oct-2012				
Navigabil. Cl./	/ear						Data Eı	ntry By	Marcia Chave	z			
Legal Land Lo		SE SEC	2 TWP 33 RG	SE 27 W4N	M			ntry Date	08-Nov-2012				
Longitude, Lati			07, 51:47:40					er Name	John O'Brien				
Road Authority	<u>'</u>	Alberta	Transportation	(AIT)			Review	Date	30-Oct-2012				
Contract Main.		CMA29					Dept. Reviewer Name		ne Andrew Smik				
Clear Roadway	y/Skew	11 /					Dept. Review Date		19-Nov-2012				
AADT/Year		1,320 / 2	2011 (A)				Follow-						
Road Classific		RAU-21	1.8-110				_						
Detour Length		6											
Bridge Culver													
Number of Cul	1		1			_							
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		SP			61	152X51	THICKNOO	ROUND				
1 MAIN - 1500 Special Features						<u> </u>		0.1	102701		11.00112		
Special Features Comment													
opoolal i catal	00 001111	mont											
					Ut	ilities (L	Located	at)					
Utility Attachm	ents												
Telephone	At No	rth & Sou	ıth end.				Gas						
Power	2 wire	s at north	n end.				Municip	oal					
Others							Probler	n (Y/N) No					
Remarks													
A							nkment						
								ation of Cor	dition				
Horizontal Alignment			8	8	In sag o	curve.							
Vertical Alignm					7	7	-						
Roadway Widt	h (m)		11.000										
Embankment					5	5	Slight e	rosion on SV	V corner due to d	tch drainage.			
Sideslope (_:1) 3.0													
(Height of Co		: 6.6)											
Guardrail (Y/N)			Yes										
Approach Roa	ad / Eml	bankmen	nt General Ra	ting	7	7							
						Unstre	am End						
Culvert Comp	onent				Last			ation of Con	dition				
Direction	J., 0111				N		_Apian						
End Treatment	(Concre	ete, Steel	I, STEEL										
Others, None)	(, 2.00	1										
Headwall					Х	X							
Collar					Х	X							
Wingwalls			Х	X									
(Shape:)													
Cutoff Wall					X	X							

70824 -1 Bridge Culvert

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Drift @ bevel.
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	Snow covered.
(Type : CONCRETE)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	Snow covered.
	T			
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Opstream End General Rating		,		
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	24-Oct-2012			Most of pipe is vertically ellipsed with D/S 1/3 being closer to round @ D/S 1490 x 1490.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1580			-80
Measured At Ring No.	12			
Sag (mm)	80			Upwards -5.3%
Percent Sag	5			0.070
Sidewall		6	6	
Measured Span (mm)	1410			
Measured At Ring No.	12			
Deflection (mm)	90			Inwards - 6.0%
Percent Deflection	6			
Floor		N	6	
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	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	5	Scaling & some corrosion pitting on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid	lge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 1500, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	D/S end above streambed.				
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		6	6					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S						
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	Bevel is pushed to the east, minor.				
Heaving (mm)	100			Perched 0.3m.				
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	400							
Scour Protection		N	5					
(Type : CONCRETE)								
(Avg. Rock Size(mm) : 250)								
Scour/Erosion		N	5	3 x 3 scour hole off end of bevel, rock filled.				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	5	5					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		5	5	90 degree bend @ U/S end.				
Bank Stability		8	8					
HWM (m below Top of Culvert)	1.0			(03/11/13)				
Drift (Y/N)	Yes			Dead trees in channel on U/S.				
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		5	5					

			Maintenance Recommendations	dations					
Inspector Recommendations	Year	Inspector Comments	omments	Department Comments	ments	<u> </u>	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	(D								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Assess fish passag	passage.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	low) 66.7/66.7		Sufficiency Rating (Last/Now) (%)	57.7/57.7	Est. Repl. Yr	2020	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Est	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	24-Jul-2014		Previous	Previous Inspection Date	08-Feb-2011				
Inspection Cycle (Default) (months)	21								
Comment									

			Maintenance Rec	ommend	lations					
Inspector Recommendations		Year	Inspector Comments		Department C	comments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		2013	Assess fish passage.		Defer					
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		66.7/66.7 Sufficiency Rating (%)		low)	57.7/57.7	Est. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments	Current regional r	eed year is	2020		
Maintenance Reviewed By	Andrew	v Smikle	es		Date	07-Jan-2013		Estimated Tota	u 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Owe		Salava	F	Previous	ous Assistant's Name					
		2014	F	Previous	Inspection Date	e 08-Feb-20	11			
Inspection Cycle (Default) (months)	21									
Comment										