Bridge Culvert Inspection														
Bridge File Num	Town Name SLAVE LAKE TRIBUTARY TO MARTEN CRI 8.11.80.34.1, WATERCRS-ST On 88:02 C1 30.428 dy Cl./Year Cl./Year d Location SW SEC 21 TWP 75 RGE 6 W 4, Latitude -114:52:40, 55:30:22 Individual Alberta Transportation (AIT) Main. Area CMA06 Individual Alberta Transportation (AIT) Individual Alberta Transportation			rt			Form Type			CUL1				
Year Built							Lot No.			2				
Bridge or Town Name SLAVE LAKE						Inspector Name			Wade Nanninga					
Located Over	-	TRIBU	TARY TO MAR	TEN CRE	EN CREEK, CRS-ST			tor Class		BR CLS A				
Located On				3110-01			Assistant Name							
		00.02) 1 30. 4 20					ant Class						
Water Body CI./Year Navigabil CI./Year							tion Date		27-Mar-2013					
		S/W SE	C 21 TWD 75 D	PGE 6 WE				ntry By		Theresa Lacusta				
				GL 0 W	IVI			ntry Date		16-Apr-2013				
Longitude, Latitude -114:52:40, 55:30:22							Reviev	ver Name		Eric Carcoux				
Road Authority Alberta Transportation (AIT)								Review Date 11-Apr-2013						
										Brent Herrick				
					Dept. Re			Review Da	ate	23-Apr-2013				
			` '											
Detour Length (I														
		ation												
Number of Culve	erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		4095	4515		SPE		50.6		152X51	4.0	ELLIPSE		
Special Features	Vater Body CI./Year avigabil. CI./Yea avigabil. Ci./Ali avigabil. CI./Yea avigabil. CI./Yea avigabil. CI./Yea avigabil. Ci./Ali avigabil. CI./Yea avigabil. Ci./Ali avigabil. CI./Yea avigabil. Ci./Ali avigabil. Ci.							1						
		nent												
Litility Attackers	-4-				Ut	ilities (L	ocated	at)						
	· ·	Loot					Gas							
	vvest &	c ⊏asi.						nal						
Power Others							Munici		No					
Others Problem (Y/N) No														
Remarks Approach Road / Embankment														
					Last			ation of	Condi	tion				
Horizontal Alignment			7	7	Park entrance 200 m south. No passing.									
Vertical Alignment			7	7	, , , , , , , , , , , , , , , , , , , ,									
Embankment			7	7										
. `		4.5)												
Guardrail (Y/N)		,	No											
Approach Road	d / Emba	ankme	nt General Rat	ing	7	7								
						The state of								
Culvert Compo	nont				Last	Upstre:		nation of	Candi	tion				
Direction	116111				E	IAOM	LAPIAI	iauon of	Sonal					
End Treatment (Concret	te, Stee	el, CONCRETE		_									
Others, None) Headwall		X	X											
Collar			4	N	Wide cracks approx every 1m in collar.Jan-2011									
Wingwalls			N	N										
(Shape:)						.,	1							
Cutoff Wall					Х	X								
							1							

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	100			1
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection	1.00	5	4	Scour/erosion hole 5m x 1.5m deep @ SE corner - not affecting
(Type : RIP RAP)				culverts yet.
(Avg. Rock Size(mm) : 150)				_
Scour/Erosion		5	5	
Scoul/E103i0i1		3		
Beavers (Y/N)	Yes			2m high beaver dam 5m from upstream end.
Upstream End General Rating		4	4	
		Brid	dae Cu	llvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			-
Barrel Last Accessible Date	27-Mar-2013	- 1941.1 (11111	.,. 1000	, (). 10.10; 1 .)
Danti Lasi Accessible Dale	21-IVIAI-2013			
Special Features				
Special Feature				
(Type:)				1
Special Feature				
(Type:)				-
Roof		N	6	
Measured Rise (mm)		IN	0	
` ,				est
Measured At Ring No.				
Sag (mm) Percent Sag	1			
Sidewall	1	N	6	
Measured Span (mm)	4130			
Measured At Ring No.	6			
Deflection (mm)	35			
Percent Deflection	15		_	
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	
Separation (mm)	0			
Longitudinal Seams		N	7	
Total No. of Cracked Rings				
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		5	5	Superficial lower 1/2. Based on visible portions
Corrosion By Soil (Y/N)		J		
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Samper FOS/ZERO/NEG	INEG			
Ponding (Y/N)	No			

77470 -1 Bridge Culvert

Bridge Culvert Barrel							
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 4095	, Rise (mm): 4515, Type: SPE)			
Fish Passage Adequacy		7	7				
Baffle		N	N	(Iced over. 14/Dec/2007)			
(Type:)							
Waterway Adequacy		7	7				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		N	6				
		D	ownstr	eam End			
Culvert Component		Last	Now	Explanation of Condition			
Direction		W					
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		X	X				
Collar		N	N				
Wingwalls		N	N				
(Shape:)							
Cutoff Wall		Х	Х				
Bevel End		N	N	Bevel under water/ice			
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	700						
Scour Protection		N	N				
(Type : NATURAL)							
(Avg. Rock Size(mm):)							
Scour/Erosion		N	N				
Beavers (Y/N) Yes				Dam 25m downstream			
Downstream End General Ratio	ng	6	6	Gen rating carried over			
		S	tructur	re Usage			
				Explanation of Condition			
Channel (U/S and D/S)							
Alignment		7	7				
Bank Stability		4	4	Vertical cut bank @ NE.			
HWM (m below Top of Culvert)				HWM not visible.			
Drift (Y/N)	Yes			0.3m leg on inlet.			
Channel Bottom Degrading/Aggrading							
Beavers (Y/N)	Yes						
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating		4	4				

		Maintenance Re	commend	lations					
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	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Beaver dam removal.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/66	.7 Sufficiency Rating (Last/N	Now)	56.8/62.1	Est. Repl. Yr	2024 Maint. Re		qd. (Y/N)	Yes
Special Monitor erosion at S Comments for Next Inspection	SE corner.			Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Shane Hall		Assistant's Name						
Next Inspection Date	27-Dec-2014		Inspection Date 09-Jun-2011						
Inspection Cycle (Default) (months)	21								
Comment									