Bridge Culvert Inspection													
Bridge File Number 77469 -1			3 -1 Bridge Culvert					уре	Cl	CUL1			
Year Built 1975							Lot No.			1			
Bridge or Town	Name	SLAVE L	E LAKE					tor Name	W	Wade Nanninga			
Located Over		LILY CR	EEK, 8.11.80.	29, WATE	RCRS	S-ST	Inspector Class BR CLS A						
Located On 88:02 C1 Water Body CI./Year Navigabil. CI./Year Legal Land Location SW SEC 2 Longitude, Latitude -114:47:4 Road Authority Alberta Tr Contract Main. Area CMA06 Clear Roadway/Skew 9.4 / AADT/Year 2,640 / 20 Road Classification RAU-210- Detour Length (km) 15 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Si 1 MAIN 42 Special Features Special Features Comment			19.302				Assista	int Name					
Water Body Cl.	/Year						Assistant Class						
Navigabil. Cl./Y	'ear							Inspection Date 27-Mar-2013					
Legal Land Location SW SEC		24 TWP 74 RGE 6 W5M				Data Entry By			Theresa Lacusta				
Longitude, Latitude -114:47:4		47, 55:25:11					ntry Date	16	16-Apr-2013				
Road Authority Alberta		Transportation (AIT)					ver Name	Er	Eric Carcoux				
Contract Main. Area CMA06				Review Date			11-Apr-2013						
Clear Roadway/Skew 9.4 /				Dept. Reviewer Name		ne Br	Brent Herrick						
AADT/Year 2,640 / 2		2,640 / 2	/ 2012 (A)					Review Date	23	23-Apr-2013			
Road Classifica	ation	RAU-210	0-110				Follow-Up By						
Detour Length ((km)	15											
Bridge Culvert Information													
Number of Culv	/erts	1									1		
Pipe #	Barrel	S	Span Rise (or I		Dia.) Type			Length		orr. Profile	PI./Slab Thickness	Shape	
1	MAIN	4	369	2870		RPP		42.7	15	52X51	2.8	PIPE ARCH	
Special Feature	es												
Special Feature	es Com	ment											
					1.143	1112 /1		- ()					
	anto				Uti	lities (L		at)					
		-					Caa						
Dewer	west	I/W.					Gas						
Othere							Problem (Y/N) No						
Demorte					Probler								
Kemarks													
					Last	Now	Explanation of Condition						
Horizontal Alignment				7	7	Curve	300 m north.		-				
Vertical Alignment				8	8								
Roadway Width	Roadway Width (m)		9.400										
Embankment					7	7							
Sideslope (:1)		3.0										
(Height of Co	ver(m)	3)	0.0		1								
Guardrail (Y/N)			No										
Approach Roa	d / Eml	bankmen	t General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	Explanation of Condition					
Direction					E					-			
End Treatment	(Concr	ete, Steel,					-						
Headwall					Х	Х							
Collar					4 N		Wide cracks in collar approx every 1mJun, 2011						
Wingwalls					Х	X							
(Shape :)													
Cutoff Wall				N	N	Concre 2011	te apron pou	red or	nto bevel floo	or has now sep	paratedJun-		

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		6	6							
Heaving (mm)	150									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm)	300		1							
Scour Protection		6 5		Concrete slab in streambed in front of bevel is 300 mm higher than						
(Type : NATURAL)				bevel floorJun, 2011						
(Avg. Rock Size(mm) :)			1							
Scour/Erosion		6	5							
Beavers (Y/N)	No									
Upstream End General Rating	- -	4	4	GR carried fwd.						
		Bric	lge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4369, Rise (mm): 2870, Type: RPP)										
Barrel Last Accessible Date	27-Mar-2013			0.6m ice on floor						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Туре :)			-							
Roof		5	5	(Nesting of plates at 7th ring is poor. Ring 4 rise measurement not						
Measured Rise (mm)				possible due to rocks on floor.						
Measured At Ring No.	6			1						
Sag (mm)				est						
Percent Sag	8									
Sidewall		3	2	Cracks in sidewall in rings 4.5.6.7.and 8 with only 48mm remaining						
Measured Span (mm)	4505			steel.						
Measured At Ring No.	4									
Deflection (mm)	136									
Percent Deflection	3									
Floor		5	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		5	5							
Separation (mm)	0		-	1						
			2	Rings 4.5.6.7 and 8 are cracked @ 4.00 position Rings 4 & 5 are						
Total No. of Cracked Rings	5		· · ·	cracked for full length of plate. Rings 6,7 and 8 are intermittently						
Total No. of Rings with Two Cracked Seams	0			R4 with 48mm steelphoto						
Min. Remaining Steel Between Cracks (mm)	48									
Proper Lap (Y/N) No				1						
Longitudinal Stagger (Y/N)	No			1						
			4	Pitting rust & severe scaling in bottom 1/4 Rust stains through						
Corrosion By Soil (Y/N)	Yes	·	· ·	seams & bolts in lower 1/2. Superficial corrosion above waterline.						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
	INU									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Culvert Company		Brid	ige Cu	Vert Barrel							
(Dipo # : 1 Primary Span Lass)	tion Code: MAINL Sta	Last	NOW								
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm): 4369								
Fish Passage Adequacy		4	4	OK during high water. No passage at upstream end during normal flows-Jun-2011							
Baffle		X	Х								
(Туре :)											
Waterway Adequacy		8	8	(Spring U/S. 17/Mar/2006) Not visible.							
Icing (Y/N)	Icing (Y/N) Yes										
Silting (Y/N)	No										
Drift (Y/N)	Drift (Y/N) No										
Barrel General Rating	Barrel General Rating										
3											
Downstream End											
Culvert Component			Now	Explanation of Condition							
Direction	1	W									
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall	1	N	X								
Collar			Х								
Wingwalls		N	X								
(Shape:)											
Cutoff Wall		X	X								
Bevel End			6								
Heaving (mm)	200										
Invert Above/Below Stream Bed BELOW											
Above/Below (mm)	300										
Scour Protection		5	5	Likely rock covered by dirt/vegetation							
(Type : NATURAL)											
(Avg. Rock Size(mm) :)											
Scour/Erosion			5								
Beavers (Y/N)	No		-								
Downstream End General Ration	ng	6	5								
		9	structu								
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)											
Alignment			6								
Bank Stability			5	Typical forest creek with near vertical banks on outside bends.							
HWM (m below Top of Culvert)				HWM not visible.							
Drift (Y/N) Yes											
Channel Bottom Degrading/Aggrading											
Beavers (Y/N) No											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating			6								

Maintenance Recommendations											
Inspector Recommendations	Yea	ar	Inspector Comments		Department Comr	nents		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	201	13 /	Assessment, if not already done.								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No	ow) 33.3	3/22.2	Sufficiency Rating (Last/Now) (%)) 43	43.7/37.7 Est. Repl. Yr 2016		2016	Maint. Reqd. (Y/N)		Yes	
Special Comments for Next Inspection	deflection. y sent to Jef cycle to 12 n	ff Zhar months	ng 05-Apr-2013. s.		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	Shane Hall	hane Hall Previo			is Assistant's Name						
Next Inspection Date 27-D		27-Dec-2014			spection Date	09-Jun-2011					
Inspection Cycle (Default) (months) 21											
Comment											