Bridge Culvert Inspection														
Bridge File Number 77573		77573 -	1 Bridge Culve			Form Type		CUL1						
Year Built 1974						Lot No.		4						
Bridge or Town Name BAWLF						Inspector Name		Owen Salava						
Located Over 21		2ND OF	/ERMILION		Inspector Class		BR CLS A							
RIV			6.5.44.1, WA		Assistant Name									
Located Un 26:10 C1			;1 30.817				Assistant Class							
Navigabil CL/Vg					Inspection Date			06-Nov-2012						
					Data Entry By			Marcia Chavez						
Legal Land Location SW SEC			.52 52:01:04		FIVI		Data Entry Date			21-Nov-2012				
Road Authority Alborta			Transportation				Reviewer Name			John O'Brien				
Contract Main Area CMA1		CMA16	Папэропацоі			Review Date		15-Nov-2012						
Clear Roadway/Skew 9.4./		94/			Dept. Reviewer Name			Andrew Smikles						
AADT/Year		1.510/3	2011 (A)			Dept. Review Date		26-Nov-2012						
Road Classificat	ion	RAU-20	9-110				Follow-Up By							
Detour Length (k	(m)	6					-							
Bridge Culvert Information														
Number of Culverts 1														
Pipe # E	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1524		MP		34.1		68X13	3.5	ROUND		
Special Features	5													
Special Features	s Comn	nent												
Utilities (Located at)														
Telephone			Gas		Cross	es 100m West.								
Power	2 wires	es OH 25m North of c/l					Municipal							
Others							Problem (Y/N) No							
Remarks					-									
Approach Road / Embankment														
						Now	Explan	Explanation of Condition						
Horizontal Alignment			8	8	-									
Vertical Alignment														
Roadway Width (m)			9.400											
Embankment					8	8								
Sideslope (:	1)		3.0				_							
(Height of Cover(m) : 3.4)														
Guardrail (Y/N)			No											
Approach Road	l / Emb	ankmei	nt General Ra	ting	8	8								
						Upstre	am End							
Culvert Component			Last	ast Now Explanation of Condition										
Direction			S		_									
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall			X	X										
Collar			Х	Х										
Wingwalls			X	X										
(Shape : )														
Cutoff Wall				X	Х									

Alberta Transportation

	1		Upstre	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		7	6							
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW			-						
Above/Below (mm)	100									
Scour Protection		7	6	Well grassed over visible rock.						
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	6							
Beavers (Y/N)	No									
Upstream End General Rating		7	6							
		Brid	dae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1524, Type: MP)						
Barrel Last Accessible Date	06-Nov-2012									
Special Features										
Special Feature				-						
(Type:)			-	-						
Special Feature										
(Туре : )										
Roof		7	6	At mid span.						
Measured Rise (mm)	1510									
Measured At Ring No.										
Sag (mm)	14									
Percent Sag	1									
Sidewall		6	6							
Measured Span (mm)	1500			@ mid span.						
Measured At Ring No.										
Deflection (mm)	24			1.6%						
Percent Deflection	1									
Floor		4	4	Scaling rust lower 1/4. Loss of section - no action.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		4	4	Couplers scaled along floor - no action.						
Separation (mm)	175		_	At N end circular seam (photo).						
Longitudinal Seams			6	Riveted. Superficial corrosion.						
Total No. of Cracked Rings	0			1 .						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
Coating		1	Λ	Lower 1/3 is heavily scaled with deep pitting. Alkaline stains, Hoovy						
	Yes	+	+	rusting on some rivets & seams. Loss of section on floor - no action.						
Corrosion By Water (V/N)	Yes									
	NEC									
Camber POS/ZEKU/NEG										
Ponding (Y/N)	No									

Alberta Transportation

	Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	):	, Rise (mm): 1524, Type: MP)						
Fish Passage Adequacy		7	7							
Baffle		X	Х							
(Туре : )										
Waterway Adequacy		8	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		6	6							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		N		-						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		X	X							
(Shape : )										
Cutoff Wall		X	X							
Bevel End		7	6							
Heaving (mm)	150									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		4	6							
(Type : <b>RIP RAP</b> )				_						
(Avg. Rock Size(mm) : 300)			-							
Scour/Erosion			6	Excavated area 10m d/s, not typical scour shape.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	6							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)			-							
Alignment		8	8	Man made channel.						
Bank Stability		5	5	Sloughing at NE bank ~20m d/s, no problem yet.						
HWM (m below Top of Culvert)				HWM not visible.						
rift (Y/N) No										
Channel Bottom Degrading/Aggrading				Unknown.						
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

Maintenance Recommendations													
Inspector Recommendations			Year	ear Inspector Comments			Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS													
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										_			
Structural Condition Rating (Last/Now) (%)			66.7/66.	6.7 Sufficiency Rat (%)		ing (Last/Now)	70.8/65.5		. Repl. Yr	2020	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection No maintenance recommended at this time, however pipe should be replaced or Monitor floor, consider concrete floor if steel softens or perforates.					Department Comments								
Maintenance Reviewed By							Date			E	Estimated Tota	0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Day		Dave Lam			Previou	Previous Assistant's Name							
Next Inspection Date 06		06-Aug-2014 Previo					s Inspection Date	s Inspection Date 10-Dec-2010					
Inspection Cycle (Default) (months) 21		21											
Comment													