

Bridge Culvert Inspection			
Bridge File Number	76878 -1 Bridge Culvert	Form Type	CUL1
Year Built	1968	Lot No.	4
Bridge or Town Name	LAC LA BICHE	Inspector Name	Eric Carcoux
Located Over	TRIBUTARY TO LAC LA BICHE, 8.11.55.9.7, WATERCRS-ST	Inspector Class	BR CLS A
Located On	55:12 C1 39.545	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	12-Apr-2012
Legal Land Location	SE SEC 1 TWP 67 RGE 14 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-111:59:48, 54:45:47	Data Entry Date	01-May-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA08	Review Date	16-Apr-2012
Clear Roadway/Skew	11.3 / -10 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	5,500 / 2011 (A)	Dept. Review Date	04-May-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2019	2226	SPE	25	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North r/w.	Gas	
Power		Municipal	
Others	Fibre optic South r/w.	Problem (Y/N)	No
Remarks	BF tag installed @ top of South roof.		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Horizontal curve over structure and superelevated roadway. No passing both directions.
Vertical Alignment		7	7	
Roadway Width (m)	11.300			Wide transverse crack in ACP over pipe, full width.
Embankment		6	6	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		Water 1m deep.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		N	N	Pitted rust. Moderate section loss/corrosion lower half.-07-Aug-08
Heaving (mm)	100			Under water.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		N	N	GR was '5' at 07-Aug-08 inspection.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2019, Rise (mm): 2226, Type: SPE)				
Barrel Last Accessible Date	07-Aug-2008			Water 1m deep-viewed from ends. Shape appears adequate or better.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	0.5m water/silt, no measurement taken.-07-Aug-2008
Measured Rise (mm)				Estimate.-07-Aug-2008
Measured At Ring No.				
Sag (mm)	70			
Percent Sag	4			
Sidewall		N	N	Moderate scaling lower half, loss of section.-07-Aug-2008
Measured Span (mm)	2059			
Measured At Ring No.	8			
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	0.5m water/silt.-07-Aug-2008
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	1 bolt missing @ seams 1 & 6.-07-Aug-2008
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			1N Stagger
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	Lower 2/3 scaling rust & pitting, moderate section loss. -07-Aug-2008
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2019, Rise (mm): 2226, Type: SPE)				
Ponding (Y/N)	Yes			1.0m standing water/silt.
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	GR was '6' @ 07-Aug-2008 inspection.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		Lac La Biche (Lake) located about 500m North.
End Treatment (Concrete, Steel, Others, None)	STEEL			No evident problem. Water 1m deep.
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Moderate section loss lower half.-07-Aug-2008
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		N	N	GR was '5' @ 07-Aug-2008 inspection.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible. (Pipe has flowed full. 24/Mar/2005)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	54.5/54.5	Est. Repl. Yr	2018	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	Pipe inaccessible after two inspections but shape looks good. A Level 2 inspection would not be recommended (as per Bim manual) at this time.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	12-Jan-2014		Previous Inspection Date	31-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							