

Bridge Culvert Inspection			
Bridge File Number	70010 -1 Bridge Culvert	Form Type	CUL1
Year Built	1997	Lot No.	2
Bridge or Town Name	SLAVE LAKE	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO UTIKUMA RIVER, 8.10.18.22.4.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	88:04 C1 72.858	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-Jun-2012
Legal Land Location	NE SEC 21 TWP 81 RGE 9 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:20:11, 56:02:35	Data Entry Date	14-Oct-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA02	Review Date	08-Oct-2012
Clear Roadway/Skew	10.3 /	Dept. Reviewer Name	David Morrison
AADT/Year	890 / 2011 (A)	Dept. Review Date	18-Dec-2012
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	210		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	6411	3270	RPB	12.2	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	15m East of road c/l.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	On gradual horizontal curve, good sight distance. Passing allowed.
Vertical Alignment	7	7	
Roadway Width (m)	10.100		
Embankment	3	3	Settlement @ SE corner 2m long, 0.6m deep, 0.5m wide - photo. Extending 0.5m into road shoulder. Void @ SW corner 1m long, 0.3m deep 0.5m wide extending 0.5m into road shoulder.
Sideslope (:1)	4.0		
(Height of Cover(m) : 1)			
Guardrail (Y/N)	Yes		3 bolts missing on guardrail. Improper lap North corner.
Approach Road / Embankment General Rating	3	3	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		Water 1.47m from crown.
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	6	6	Horizontal crack @ pour line.
Collar	X	X	
Wingwalls	4	4	SW wing heaved 500mm.
(Shape :)			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		5	5	
(Type : GABION)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6411, Rise (mm): 3270, Type: RPB)				
Barrel Last Accessible Date	15-Jan-2007			Water 1.3m from crown. Viewed from ends. Shape appears to be good.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	N	Rated above water.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Minor superficial rust on sidewall.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6411, Rise (mm): 3270, Type: RPB)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "7" from 15/Jan/2007.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Horizontal crack @ pourline. Honeycombing on headwall.
Collar		X	X	
Wingwalls		4	4	SE wingwall leaning 700mm and heaving 300mm.
(Shape :)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		5	5	
(Type : GABION)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
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)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
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	2012	Repair embankment where settled near the road shoulders.					
OTHER ACTION	2012	Install bolts on guardrail and fix improper lap.					
OTHER ACTION	2012	(Seal concrete.-04-Aug-2010) Could not confirm.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	45.3/45.1	Est. Repl. Yr	2041	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor SE & SW movement.		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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	11-Mar-2014		Previous Inspection Date	04-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							