

Bridge Culvert Inspection				
Bridge File Number	09223 -1 Bridge Culvert		Form Type	CUL1
Year Built	1974		Lot No.	4
Bridge or Town Name	COOKING LAKE		Inspector Name	Kris Bosters
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	14:06 C1 7.635		Assistant Name	Brian Cote
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	09-Jan-2013
Legal Land Location	SW SEC 23 TWP 51 RGE 22 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:08:39, 53:24:59		Data Entry Date	16-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA09		Review Date	09-Jan-2013
Clear Roadway/Skew	13.4 /		Dept. Reviewer Name	Paul Catt
AADT/Year	5,840 / 2011 (A)		Dept. Review Date	18-Jan-2013
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	6			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2010	2240	SPE	34.1	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment	BF tag on N end.							

Posting Information

Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)	No											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks												

Utilities (Located at)

Utility Attachments												
Telephone						Gas						
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Slight curve to east. Divided hwy begins 200m West.
Vertical Alignment		8	8	
Roadway Width (m)	13.400			
Embankment		8	8	
Sideslope (__:1)	5.0			
(Height of Cover(m) : 1.4)				
Guardrail (Y/N)	Yes			Minor strike damage.
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		Thickly vegetated.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	Gate installed at opening.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Covered with silt.
Above/Below (mm)	200			
Scour Protection		N	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	GR carried fwd.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2010, Rise (mm): 2240, Type: SPE)				
Barrel Last Accessible Date				
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	2135			(Dim and sag from 17/Nov/2005)
Measured At Ring No.	5			In good condition. No visible sagging.
Sag (mm)	105			Silt on floor, could not measure rise.
Percent Sag	5			
Sidewall		5	5	Loose bolts on rings 1 & 2.(not major concern)
Measured Span (mm)	2095			
Measured At Ring No.	6			
Deflection (mm)	85			
Percent Deflection	4			
Floor		N	N	200mm Silt on floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	1 bolt missing circumferential seam R6/7.
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2010, Rise (mm): 2240, Type: SPE)				
Coating		6	6	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	5	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	Gate installed at opening.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	Snow covered
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR carried fwd.

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Roadway Surface		8	8	
(Type : SOIL)				
Icing (Y/N)	No			dirt
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	Yes			Lower seams
Drainage		8	8	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		8	8	

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) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	80.5/68.5	Est. Repl. Yr	2040	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			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	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	09-Oct-2014		Previous Inspection Date	09-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							