

Bridge Culvert Inspection				
Bridge File Number	76043 -1 Bridge Culvert		Form Type	CUL1
Year Built	1998		Lot No.	1
Bridge or Town Name	KINUSO		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO CHALMERS CK, 8.11.80.39.15.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	33:14 C1 4.315		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	11-Feb-2013
Legal Land Location	NW SEC 14 TWP 69 RGE 9 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:15:37, 54:58:34		Data Entry Date	13-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA06		Review Date	07-Apr-2013
Clear Roadway/Skew	10.7 /		Dept. Reviewer Name	
AADT/Year	770 / 2012 (A)		Dept. Review Date	
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	99			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3000	MP	35	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	O/H 3 line East R/W.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Local road intersection 30 m south crest curve located 50 m north.
Vertical Alignment	7	7	
Roadway Width (m)	10.700		
Embankment	7	7	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 2)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	7	7	
Collar	N	N	Under snow
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		6	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	GR carried over 06-Apr-2011
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Barrel Last Accessible Date	24-Jul-2009			Ice 0.5m to crown. Viewed from ends. Shape looks good.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	EST/No rise measurement due to silt - 23-Jul-2009 shape of barrel is very good.-06-Apr-2011
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag	2			
Sidewall		7	N	C.L.-24-Jul-2009
Measured Span (mm)	3050			
Measured At Ring No.				
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	50			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	About 800mm buildup.-24-Jul-2009
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	GR 7-24-Jul-2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Only 3% visible
Heaving (mm)	0			
Invert Above/Below Stream Bed		BELOW		Couldn't tell due to snow cover.
Above/Below (mm)	600			
Scour Protection		7	N	Grassed over.-24-Jul-2009 Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)		No		
Downstream End General Rating		7	7	GR carried fwd.-06-Apr-2011
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		8	8	
HWM (m below Top of Culvert)				No hwm visible
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading				Couldn't tell due to snow cover. Small drift D/S.-14-Jul-2009
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		9	9	

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	2013	Level 2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	67.6/67.6	Est. Repl. Yr	2042	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Barrel inaccessible las 2 inspections, recommend Leve 2 as per Bim manual.		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-Nov-2014		Previous Inspection Date	06-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							