

Bridge Culvert Inspection				
Bridge File Number	81732 -1 Bridge Culvert		Form Type	CUL1
Year Built	1991		Lot No.	4
Bridge or Town Name			Inspector Name	Russel Vanderschaaf
Located Over	WATERCOURSE, WATERCRS-NI		Inspector Class	BR CLS B
Located On	717:02 C1 19.998		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Aug-2012
Legal Land Location	NW SEC 10 TWP 84 RGE 12 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:49:11, 56:16:06		Data Entry Date	25-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	24-Sep-2012
Clear Roadway/Skew	11.3 /		Dept. Reviewer Name	Steve Pasquan
AADT/Year	160 / 2011 (A)		Dept. Review Date	07-Jan-2013
Road Classification	RCU-209G-90		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1200	MP	35	65X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	East r/w 15m from c/l.		Gas	Gas pipeline crosses road 25m North.
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Field approaches NE & SW.
Vertical Alignment		8	8	
Roadway Width (m)	11.300			
Embankment		8	4	NE ditch has eroded 35 long x 1 wide x 0.5m deep. Vegetated.
Sideslope (_ :1)	5.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		8	8	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Minor drift
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	5	2-3 rocks have washed into barrel.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1200 , Type: MP)				
Barrel Last Accessible Date	26-Aug-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	4	100mm deep dent near D/S end likely construction damage.
Measured Rise (mm)	1099			Near c/l.
Measured At Ring No.				
Sag (mm)	101			8.4%
Percent Sag	8			
Sidewall		4	4	
Measured Span (mm)	1291			Near c/l.
Measured At Ring No.				
Deflection (mm)	91			7.6%
Percent Deflection	8			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	75			
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		6	6	Lower 1/3.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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): 1200, Type: MP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		4	4	15 long x 5 wide x 1.0m deep scour hole D/S. Eroded 0.5m x 0.5m along sides of bevel.Vegetated
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		4	4	Scour hole D/S.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		4	4	Makes 45 degree bends 10m U/S & D/S.
Bank Stability		4	4	Bank is eroded 2m vertical for 15m D/S.
HWM (m below Top of Culvert)	0.4			Waterline in barrel.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)				
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	53.0/53.0	Est. Repl. Yr	2041	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Assessment completed in 2009.		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	26-Nov-2015		Previous Inspection Date	28-Jul-2009			
Inspection Cycle (Default) (months)	39						
Comment							