

Bridge Culvert Inspection			
Bridge File Number	71147 -2 Bridge Culvert	Form Type	CUL1
Year Built	2005	Lot No.	4
Bridge or Town Name	MORINVILLE	Inspector Name	Melanie Johnson
Located Over	TRIBUTARY TO RIVIERE QUI BARRE, 6.65.14.4, WATERCRS-ST	Inspector Class	BR CLS B
Located On	642:02 C1 17.976	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	28-Jun-2011
Legal Land Location	SW SEC 2 TWP 56 RGE 27 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:54:50, 53:48:12	Data Entry Date	05-Jul-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA09	Review Date	29-Jun-2011
Clear Roadway/Skew	11 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,390 / 2010 (A)	Dept. Review Date	18-Jul-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	10		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3990	SP	59.74	152X51	3.0,3.0,3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South Ditch	Gas	40m west
Power	4 OH lines 22m Noth c/l.	Municipal	
Others	Fibre optic North r/w (AB Supernet).	Problem (Y/N)	No
Remarks	Small bridge plaque installed on top of North headwall.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection ~ 75m west of crossing, crest curve to east. No passing in either direction, 50km/hr. Entering reserve to East.
Vertical Alignment	6	6	
Roadway Width (m)	11.000		1.2m berm on North embankment, spurs. North pavement shoulder is cracking longitudinally - sealed.
Embankment	4	5	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 4)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	5	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	9	7	
Wingwalls (Shape :)	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		9	7	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		9	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3990, Type: SP)				
Barrel Last Accessible Date	10-Mar-2008			Pipe view from ends shape and condition look good. Water 1.8m deep.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	N	(18/Nov/2005)
Measured Rise (mm)	3980			
Measured At Ring No.	12			
Sag (mm)	10			
Percent Sag	0			
Sidewall		9	N	10-Mar-2008
Measured Span (mm)	4000			
Measured At Ring No.	8			
Deflection (mm)	10			
Percent Deflection	0			
Floor		N	N	Iced over.-10-Mar-2008
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)	0			
Longitudinal Seams		9	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		9	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3990, Type: SP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	7	
Baffle		N	N	(15 sets. 18/Nov/2005) Iced over.
(Type : WEIR)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		9	N	GR was 9 on 10-Mar-2008 inspection.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	(Beaver dam 200m U/S. 18/Nov/2005) Snow covered.
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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) (%)	100.0/55.6	Sufficiency Rating (Last/Now) (%)	97.0/69.2	Est. Repl. Yr	2055	Maint. Req'd. (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	Dave Lam		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	28-Sep-2014		Previous Inspection Date	10-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							