

Bridge Culvert Inspection			
Bridge File Number	07809 -2 Bridge Culvert	Form Type	CUL1
Year Built	2006	Lot No.	4
Bridge or Town Name	GRIMSHAW	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO PEACE RIVER, 8.10.62, WATERCRS-ST	Inspector Class	BR CLS A
Located On	740:02 C1 50.650	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	14-Dec-2012
Legal Land Location	NE SEC 8 TWP 82 RGE 23 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:33:37, 56:05:59	Data Entry Date	13-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	08-Jan-2013
Clear Roadway/Skew	9 / 0 deg.	Dept. Reviewer Name	David Morrison
AADT/Year	330 / 2011 (A)	Dept. Review Date	19-Mar-2013
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	20		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	4300	SP	42.06	152X51		ROUND
Special Features	CONC FLOOR							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	10m East	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	5	5	Farm entrances to the west, vertical & horizontal curves to the east. Road posted to 80km/hr.
Vertical Alignment	7	7	
Roadway Width (m)	9.000		
Embankment	8	8	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 2.8)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	5	5	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		9	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		9	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		9	9	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 4300 , Type: SP)				
Barrel Last Accessible Date	14-Dec-2012			
Special Features				
Special Feature		N	N	Floor lined with concrete on 2006/12/05&06, with new installation
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		9	9	Rise measured on 2006/11/11 prior to concrete floor pour.(2007-05-25)
Measured Rise (mm)	4317			
Measured At Ring No.	6			Sag estimated to similar to rise.
Sag (mm)	17			
Percent Sag	0			
Sidewall		9	9	
Measured Span (mm)	4308			
Measured At Ring No.	6			
Deflection (mm)	8			
Percent Deflection	0			
Floor		N	N	Culvert filled in with gravel during 2007 spring run-off, to above concrete floor lining.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		9	9	
Separation (mm)	0			
Longitudinal Seams		9	9	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			2N stagger
Longitudinal Stagger (Y/N)	Yes			
Coating		9	9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	POS			
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): 4300, Type: SP)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		9	9	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	N	Snow covered.
Collar		9	N	Snow covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	4	Erosion scar NE bank adjacent to outlet.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		8	4	
Beavers (Y/N)	No			
Downstream End General Rating		8	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Cut slopes d/s
Bank Stability		5	5	
HWM (m below Top of Culvert)	1.0			(08-Oct-2009)
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(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) (%)	100.0/100.0	Sufficiency Rating (Last/Now) (%)	92.1/87.6	Est. Repl. Yr	2047	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor erosion at d/s NE bank.		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	14-Mar-2016		Previous Inspection Date	08-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							