

Bridge Culvert Inspection			
Bridge File Number	74903 -1 Bridge Culvert	Form Type	CUL1
Year Built	1958	Lot No.	2
Bridge or Town Name	CHERRY POINT	Inspector Name	Russel Vanderschaaf
Located Over	2ND ORDER TRIBUTARY TO PEACE RIVER, 8.10.95.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	717:02 C1 6.621	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	26-Aug-2012
Legal Land Location	SW SEC 24 TWP 83 RGE 13 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:55:31, 56:12:22	Data Entry Date	25-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	23-Sep-2012
Clear Roadway/Skew	9 / -45 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	160 / 2011 (A)	Dept. Review Date	18-Dec-2012
Road Classification	RCU-209G-90	Follow-Up By	
Detour Length (km)	8		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1724	1901	SPE	39.4	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	10 M W. OF C/L	Gas		
Power	15 M E. OF C/L - 2 wire	Municipal		
Others		Problem (Y/N)	No	
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	In sag limiting sight distances.
Vertical Alignment		6	6	
Roadway Width (m)	9.000			
Embankment		6	6	
Sideslope ( __:1)	3.0			
(Height of Cover(m) : <b>0.5</b> )				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**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		5	5	Damage to sides and bent top of bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	
Beavers (Y/N)	Yes			Beaver cage damaged, sitting atop of bevel. Beaverdam u/s bevel.
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	26-Aug-2012			
<b>Special Features</b>				
Special Feature				Vertical elbow @ u/s end of bevel.
(Type : )				
Special Feature				
(Type : )				
Roof		5	5	2 RINGS WITH A HORIZONTAL CURVE D/S END TO BEVEL END. Roof pushed down 100mm at mid-point of R1.
Measured Rise (mm)	1858			
Measured At Ring No.	4			
Sag (mm)	33			
Percent Sag	2			
Sidewall		6	6	Repairs to sidewall at ring 1 @ 3:00 & 11:00.
Measured Span (mm)	1720			
Measured At Ring No.	4			
Deflection (mm)	4			
Percent Deflection	1			
Floor		4	4	1.2m long crease bulge in floor, rings 3 & 4.
Bulge (mm)	50			
Measured At Ring No.	3			
Abrasion (Y/N)	No			
Circumferential Seams		7	4	ONE SEAM 2 NUTS MISSING IN SIDE.
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				1N Stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Pitting & Scaling rust on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): 1724, Rise (mm): 1901, Type: SPE)				
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			Beaver dam and drift u/s bevel.-photo
Silting (Y/N)	No			
Drift (Y/N)	Yes			
<b>Barrel General Rating</b>		<b>5</b>	<b>5</b>	
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		4	4	1.8m (unsupported)
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		4	4	Erosion around end of pipe.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	Scour hole 8m x 10m.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	6	Sloughing d/s
Bank Stability		5	5	
HWM (m below Top of Culvert)	0.6			HWM not visible.
Drift (Y/N)	Yes			Drift in trees, d/s.
Channel Bottom Degrading/Aggrading	DEGRADING			Dam d/s 30m + bevel
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	Beaverdam from u/s bevel.					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.4/65.4</b>	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor erosion. Monitor bulge in floor.		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	Jordan Evans			
Next Inspection Date	26-Nov-2015		Previous Inspection Date	07-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							