

Bridge Culvert Inspection			
Bridge File Number	77904 -1 Bridge Culvert	Form Type	CUL1
Year Built	1975	Lot No.	4
Bridge or Town Name	PEERS	Inspector Name	Eric Carcoux
Located Over	TRIBUTARY TO MCLEOD RIVER, 8.11.107.13, WATERCRS-ST	Inspector Class	BR CLS A
Located On	32:08 C1 29.001	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	14-Oct-2012
Legal Land Location	SE SEC 23 TWP 56 RGE 14 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:57:52, 53:51:00	Data Entry Date	19-Dec-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Stew Hagan
Contract Main. Area	CMA12	Review Date	12-Dec-2012
Clear Roadway/Skew	10 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,380 / 2011 (A)	Dept. Review Date	21-Dec-2012
Road Classification	RAU-210-110	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	3510	3890	SPE	107.9	152X51	4.2	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	West r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Curve 150 m south, slight sag, limited sight distance.
Vertical Alignment	6	6	
Roadway Width (m)	10.000		
Embankment	N	7	
Sideslope ( __:1)	2.5		
(Height of Cover(m) : <b>20</b> )			
Guardrail (Y/N)	Yes		
<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)	CONCRETE		
Headwall	X	X	
Collar	4	4	Concrete undermined, broken & sliding. Medium scaling along culvert edge.
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	5	
(Type : <b>RIP RAP, CONCRETE</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3510, Rise (mm): 3890, Type: SPE)				
Barrel Last Accessible Date	14-Dec-2010			Water to deep to enter - viewed from ends , shape looks good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	N	(3.9%. 1999/01/23) Sag est. (U/S rock on floor. Could not measure rise because of a thick layer of rock on floor. 19/July/2007) Could not measure due to ice. Est. sag similar to deflection.-14-Dec-2010
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	150			
Percent Sag	4			
Sidewall		7	N	(U/S 3443, D/S 3393. Mid span. 3.5%. 19/July/2007)
Measured Span (mm)	3738			
Measured At Ring No.	14			
Deflection (mm)	152			
Percent Deflection	4			
Floor		N	N	(Covered with a rock layer. Abrasion on floor due to layer of rock. 19/July/2007)
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	N	3 seams have roof bolt holes widen, some bolts are distorted. -14-Dec-2010
Separation (mm)	0			
Longitudinal Seams		7	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Superficial rust on floor to sidewall. 17/Oct/2005) Rust stains through bolt holes.-14-Dec-2010
Corrosion By Soil (Y/N)	Yes			
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): 3510, Rise (mm): 3890, Type: SPE)				
Fish Passage Adequacy		7	7	
Baffle		X	N	
(Type : )				
Waterway Adequacy		7	7	(500mm gravel wash throughout barrel. 19/July/2007)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>N</b>	GR was '7' -14-Dec-2010
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		N	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		N	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			D/S
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.0/62.1</b>	Est. Repl. Yr	2021	Maint. Req. (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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	14-Jul-2014		Previous Inspection Date	14-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							