

Bridge Culvert Inspection				
Bridge File Number	09873 -1 Bridge Culvert		Form Type	CULE
Year Built	1990		Lot No.	4
Bridge or Town Name	PEACE RIVER		Inspector Name	Brian Pientsch
Located Over	STRONG CREEK, 8.10.59, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:62 C1 9.722		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	06-Dec-2011
Legal Land Location	NE SEC 30 TWP 83 RGE 22 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:27:13, 56:13:59		Data Entry Date	06-Feb-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	29-Jan-2012
Clear Roadway/Skew	13 / -25 deg. (LHF)		Dept. Reviewer Name	David Morrison
AADT/Year	4,440 / 2011 (A)		Dept. Review Date	05-Apr-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	2120	SSP	88.2		19.1	ROUND
1	D/S	-	2430	MP	7	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Buried cable in South	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach both sides, 50m E and 50m W.
Vertical Alignment		7	7	
Roadway Width (m)	12.200			
Embankment		3	4	45m x 4m x 2m South East ditch erosion.
Sideslope (:1)	3.5			
(Height of Cover(m) : 10)				
Guardrail (Y/N)	Yes			1 bolt missing North gaurdrail.
Approach Road / Embankment General Rating		7	7	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		X	X	Covered with snow and ice.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		3	4	Erosion/scour on West side of u/s end.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		3	4	2 x 4 x 2.5m erosion scour to West of U/S end.
Beavers (Y/N)	Yes			Beaver dam 2m u/s.
Upstream End General Rating		3	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2120, Type: SSP)				
Barrel Last Accessible Date	08-Feb-2010			Not able to enter, only 950mm clearance @ u/s end.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	4	(Sag est - 2003/01/14)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	160			
Percent Sag	8			
Sidewall		4	4	30m from U/S end.-08-Feb-2010 Pitting rust on sidewalls, caired fwd from 08-Feb-2010
Measured Span (mm)	2282			
Measured At Ring No.				
Deflection (mm)	162			
Percent Deflection	8			
Floor		N	N	1m of gravel/silt in bottom of pipes for25m from U/S end.-08-Feb-2010
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	(All visible weld good)
Separation (mm)	0			
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		X	X	Pitting rust. No coating.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2120, Type: SSP)				
Ponding (Y/N)	Yes			From 600mm to 1.2 m ponding.(03-01-14)
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	1m of silt and gravel for 25m from U/S end.-08-Feb-2010
Icing (Y/N)	Yes			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried over from 08-Feb-2010

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 2430, Type: MP)				
Barrel Last Accessible Date	08-Feb-2010			
Special Features				
Special Feature				Spacing between connections.-08-Feb-2010 Grouted connection between WSP and CSP.
(Type :)				
Special Feature				
(Type :)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			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			N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 2430, Type: MP)				
Ponding (Y/N)	Yes			0.5m available space to culvert crown.
Fish Passage Adequacy			7	
Baffle			X	
(Type :)				
Waterway Adequacy			5	
Icing (Y/N)	Yes			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel Extension General Rating			4	GR carried over from 08-Feb-2010
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Minor spall on headwall.
Collar		7	7	Spall on SE corner.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Covered with ice.
Bevel End		X	X	Covered with snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		4	4	Scour at sides of headwall.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	Scour at sides of headwall.
Beavers (Y/N)	No			
Downstream End General Rating			4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		4	5	U/S channel misaligned 2m West by beaver dam.
Bank Stability		4	4	Erosion along banks U/S caused by beaver dam.(6m x 2m x 1.5m on West bank)(10m x 2m x 2m on East bank).
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Beaverdam 2m upstream.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
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) (%)	42.9/43.8	Est. Repl. Yr	2026	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	06-Sep-2013		Previous Inspection Date	08-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							