

Bridge Inspection									
Bridge File Number	07979 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1960/1971				Lot No.	1			
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	684:02 C1 18.223				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Dec-2012			
Legal Land Location	SW SEC 4 TWP 83 RGE 22 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:25:29, 56:09:45				Data Entry Date	23-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA04				Review Date	08-Jan-2013			
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name	David Morrison			
AADT/Year	1,860 / 2011 (A)				Dept. Review Date	20-Feb-2013			
Road Classification	RCU-208-110				Follow-Up By				
Detour Length (km)	25								
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	---> On Critical Spans --->Critical Member		
Design Loading:	HS20						---> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi				Truck Train
Posted Loading (t)	Single				Semi				Truck Train
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	15m east				Gas	60m South			
Power					Municipal				
Others	Fiber optics west ditch.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Approaches SE & NE of bridge steep grade to S & curve to North limits visability.				
Vertical Alignment			5	5					
Roadway Width (m)	9.500				Only 3 sections of rail @ SE corner due to approach. Snow covered.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	N					
Length (m)	20.000								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN								
Drainage			4	N	5x0.3x0.3m (lwd) erosion gullies NW corner.-08-Oct-2009 Snow covered				
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Ice covered
<b>Last</b>					
<b>Now</b>	100.0				
Wearing Surface			5	N	Thickness 100 Longitudinal cracks in asphalt along piers - all 3 spans.-08-oct-2009
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Covered by acp. - Cannot view.
Bump (Y/N)		No			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	Snow covered
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		3			
Bridge Rail			6	N	Snow covered Missing bolt NW corner.-08-Oct-2009
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			3	N	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	N	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	3	
<b>Now</b>				2	
Girders			3	3	WC AZ 2 legs unsound concrete, SP3G1,11,12 SP2G1, SP1G1,G2 - photo WC AZ 1 leg SP3G2,3 4,5,6,8,9 SP2G1,4,6,7,8,12, SP1G4,5,8,9,11,12
Last Complete Inspection Date		14-Dec-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		4			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>36</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	

Substructure							
Bridge Component			Last	Now	Explanation of Condition		
<b>Abutments</b>							
(Extended Backwall Piles (Y/N) : <b>N</b> )							
(Extended Backwall Piles Spacing(mm) : )							
(Total Number of Caps/Corbels : <b>1:1</b> )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>					Heavy scaling rust - loss of section.		
<b>Now</b>							
Bearing Seats/Caps/Corbels				5	4		
(Type : <b>STEEL</b> )							
(Depth(mm) : <b>350</b> )							
(Width(mm) : <b>375</b> )							
Backwalls/Breastwalls			4	4	Top planks pushed in due to capitals 20mm gap & loosing fill.		
Greatest Height (m)		3.10					
Wingwalls			4	N	NE wingwall top board broken causing road to erode.-08-Oct-2009		
(Total Number of Bearing Piles : <b>10:10</b> )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>					Abut 1, Pile 9, H-Beam missing planking SE corner. Cap & abutment rolling back 5 degree. All abutment piles have capitals. Cored 2008 Pile 4 abut. 2 vert crack (10mm)		
<b>Now</b>							
Piles				5	5		
Paint/Coating				X	X		
Abutment Stability			5	4	Abut 1 rotating in due to high backwall pressure.		
Scour/Erosion			5	4	NE abut. scouring out & losing rock.		
<b>Piers/Bents</b>							
(Type : <b>PIER-COLUMN</b> )							
(Total Number of Caps/Corbels : <b>1:1</b> )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>					Heavy scaling rust-loss of section.		
<b>Now</b>							
Bearing Seats/Caps/Corbels				5	4	2 leaning piles @ pier 1 (piled 1&7)	
(Type : <b>STEEL</b> )							
(Depth(mm) : <b>350</b> )							
(Width(mm) : <b>375</b> )							
(Total Number of Bearing Piles : <b>10:10</b> )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	1	All pier piles have capitals. Cored 2008 Pier 1, Pile 10, Pier 2 pile 7,8,9,10 H-Beam. Pile 8, pier 2 30mm split (not banded)		
<b>Now</b>				1			
Pier Shaft/Piles				3	3	Pier 1 pile 6 rotten & split at base. Pier 1 out of plumb. Pier piles out of plumb.	
Greatest Height (m)		4.50					
Bracing/Struts/Sheathing			5	5			
Nose Plate			5	5			
Paint/Coating			4	3	Loss of section due to rust on steel piles-not painted.		
(Colour Description : )							
(Colour Code : )							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	4	Pier 1 out of plumb approx. 150mm.
Scour		5	5	
Debris (Y/N)	Yes			A few 200mm dia. logs on pier1.
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		5	5	
Bank Stability		4	3	Steep eroding channel banks.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection (Type : )		4	4	Abutment eroding & loosing rock NE corner. (3m x 3m x 0.5m)
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>3</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Replace bridge.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.5/44.8</b>	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor erosion on sideslopes. Monitor cracking in girders. Monitor channel scour/erosion.		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							