

Bridge Inspection							
Bridge File Number	76223 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1966/1966			Lot No.	2		
Bridge or Town Name	WHITECOURT			Inspector Name	Eric Carcoux		
Located Over	SAKWATAMAU RIVER, 8.11.108, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	32:12 C1 1.699			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	14-Oct-2012		
Legal Land Location	SE SEC 19 TWP 60 RGE 12 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-115:46:45, 54:12:05			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	9.1 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	2,050 / 2011 (A)			Dept. Review Date	21-Dec-2012		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	20						
Allowable Load (t):	Single	CS1 39 GIRDER	Semi	CS2 49	Train	CS3 61 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span	

Posting Information								
Required Load Posting (t)	Single				Semi		Truck Train	62
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								
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Not required.							
Other Sign Types	"Sakwatamau River" at SE & NW corners.							

Utilities (Located at)				
Utility Attachments				
Telephone	West r/w.		Gas	
Power			Municipal	
Others	WSC shack NE.		Problem (Y/N)	Yes
Remarks	Telephone cable strung along West curb.			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Long sag curve, approach to SE.
Vertical Alignment		6	6	Limited sight distance to South.
Roadway Width (m)	9.200			Wide transverse crack in ACP at ends of approach slabs.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Not standard post spacing at NW & SE corners, not thrie beam.
Guardrail		7	7	
Length (m)	26.200			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 12.2-25.9-12.2, A-Ident Number:)					
Special Features					
Special Feature		8	8	Underslung beams. Bolts hang down approx 175 mm.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	5	0	0	0	
Now					
Wearing Surface		4	4	1mx2m section peeled off at N end of bridge.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		N	3	Evidence bladder has failed @ both piers & at A2 due to corroded bearing & girder shoe plates @ G5 & G2, staining of piers & A1 - photos Joints may have been replaced. Too much snow to confirm.	
Temperature (deg. C)	5				
(Expansion Type :)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)	Gap Location				
65	South abutment				
58	South pier				
57	North pier				
62	North abutment				
Deck Drainage		N	3	Leaking on AZ	
Drains Clogged (Y/N)					
Curbs/Median		N	4	Delam curb/grout pad leaving void @ NW post.	
(Curb Type : Standard)					
Scaling (Percent Area)	5				
Bridge Rail		4	4	Double layer. Incorrectly lapped. Missing 4 splice bolts at each connection - photo.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders		4	4	Typical crack along chamfer. Typical cracks at girder shoe plate, starting to corrode/spall, worst @ S1G5 & G2 due to leaking joint - photo.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 18)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 12.2-25.9-12.2, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	End diaphragms to show efflorescence & corrosion cracking - photo.
Bearings		4	4	Bearings corroding where joint is leaking. Worst SP1G1, 5 & 6
Temperature (deg. C)	5			Abutments are fixed.
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	A2 horizontal crack under G1/G2.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		5	5	
Scour/Erosion		7	3	Scour on S headslope and protection failed.-photo
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				2 wide vertical cracks/pier. Couple spalls at bottom of P2 stream side from lack of cover, with exposed rebar.
Pier Shaft/Piles		4	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		6	6	
Paint/Coating		4	4	Nose plate rusting.
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	
Scour		6	6	
Debris (Y/N)	Yes			900mm dia tree under SP1.-photo
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Impinging on A1, failing slope protection.
(D/S Direction : E)				
Alignment		7	3	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible. 900 dia tree S headslope.
Drift (Y/N)	Yes			
Slope Protection		4	3	Protection failed and falling away @ A1.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 196 splice bolts along flexbeam bridgerail. Correct lap.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch spalled curb under post.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace/repair failed joints, if not done already.					
RESET/ PAINT BEARINGS	2013						
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair S. concrete slope protection.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	49.7/48.0	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
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	15-Dec-2010			
Inspection Cycle (Default) (months)	21						

Comment	
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