

Bridge Inspection									
Bridge File Number	79472 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1981/1981				Lot No.	4			
Bridge or Town Name	KAKWA R				Inspector Name	Shane Hall			
Located Over	KAKWA RIVER, 8.10.58.21, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	40:38 C1 23.886				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	23-Aug-2012			
Legal Land Location	SW SEC 4 TWP 63 RGE 4 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-118:33:14, 54:25:15				Data Entry Date	24-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA05				Review Date	22-Oct-2012			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	David Morrison			
AADT/Year	1,220 / 2011 (A)				Dept. Review Date	15-Jan-2013			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	75								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS400						----> 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					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Missing 1 bolt at first post each corner.				
Vertical Alignment			8	8					
Roadway Width (m)	10.800								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			N	4					
Length (m)	42.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			8	8					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 37.7-47-37.7, A-Ident Number: A0887-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	90	0	0	0	
Now					
Wearing Surface			9	8	
(Material Type : ACP)					
(Thickness(mm) : 90)					
Deck Top			X	X	
Deck Rideability			9	8	
Deck Joints			7	7	
Temperature (deg. C)		20			
(Expansion Type : FINGER PLATES)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
70		N. abut			
40		S. abut			
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			N	9	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE;BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			8	8	
Weld			8	8	
Diaphragms/Cross Frame			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 37.7-47-37.7, A-Ident Number: A0887-01)				
Paint Condition		4	4	Flaking rust@ N. ABUT GIRDERS ABOVE BEARINGS (photo).
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	
Temperature (deg. C)	20			
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Deck underside rating increased due to waterproof membrane by 2 points.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Narrow cracks with efflorescence @ 1.5m under curbs.
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	5% coating peeled.
Abutment Stability		7	7	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 36:36)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		5	5	Weathered steel.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		5	5	River is moving N on US side and may create a problem in future.
Bank Stability		5	5	
HWM (m below Top of Curb)	3.0			HWM carried forward from unknown date. Drift can be large sized.
Drift (Y/N)	Yes			
Slope Protection		6	6	
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		7	7	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	64.2/64.2	Est. Repl. Yr	2043	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor corrosion on girder ends.		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	Russel Vanderschaaf			
Next Inspection Date	23-May-2014		Previous Inspection Date	19-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							