

Bridge Inspection											
Bridge File Number	74653 -1 Bridge				Form Type	CON					
Year Built/Year Supstr	1957/1957				Lot No.	2					
Bridge or Town Name	VAUXHALL				Inspector Name	Jason Rusu					
Located Over	OLDMAN RIVER, 2.12, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	36:04 C1 20.192				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	10-Dec-2011					
Legal Land Location	NW SEC 35 TWP 11 RGE 16 W4M				Data Entry By	Erin Roberts					
Longitude, Latitude	-112:05:09, 49:57:35				Data Entry Date	24-Jan-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA24				Review Date	26-Dec-2011					
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	2,550 / 2010 (A)				Dept. Review Date	06-Feb-2012					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	12										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	---> 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										
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	River i.d and curve - bridge ice									

Utilities (Located at)											
Utility Attachments											
Telephone					Gas						
Power					Municipal						
Others					Problem (Y/N)	No					
Remarks											

Approach Road										
		Last	Now	Explanation of Condition						
Horizontal Alignment		6	6	No passing SB at both ends of bridge in long sag curve with a curve to the North. Settlement cracks across road 2 m North of North deck end. - sealed.						
Vertical Alignment		6	6							
Roadway Width (m)		9.100								
Approach Bump		5	5	Not Thrie Beam						
Guardrail (Y/N)		Yes								
Guardrail		6	6							
Length (m)		57.000								
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 : CT, 8 Spans, Lengths(m): 25.3-35.1-35.1-35.1-35.1-35.1-25.3, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Spall @ deck @ North hanger Joint	
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	4	Transverse cracks every 1.0 m avg. MAP CRACKING Many cracks repaired with sandpoxy, mortar	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			5	3	North Hanger - 82 mm. South Hanger - 78 mm. 5 missing bolts (1 at A1, 1 at South hanger, 2 at North hanger, 1 at A2). Estimate 2-3 partly sheared.	
Temperature (deg. C)		-3				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
Gap Size (mm)		Gap Location				
100		N. abut				
95		S. abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Transverse cracks. Surface spalls & rebar exposed @ curb face @ S- 6 & 7 & isolated areas @ other spans.	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			5	5	8th panel from SW has middle rail bent 25mm Wide crack in 10 to 18th posts from NW and isolated others	
(Type : BRIDGE TUBE)						
Bridge Rail Posts			4	4	5% posts cracked. 20% superficial corrosion. Spalled post- 6th post from SE, typical of several posts.	
(Type : CONCRETE;CONCRETE)						
Bridge Rail/Posts Coating			4	4		
(Type : PAINT)						
Sidewalk			X	X		
Girders			N	5	Some narrow width cracks @ South. North only seen from bank at both locations. Hairline flexural cracks @ girder at abuts	
Diaphragms/Cross Frame			4	4	Some with wide cracks - Worst 6mm wide vertical crack @ North Pier	
Bearings			7	7	Rollers @ Abuts Rockers @ P1, P3, P5, P7 Fixed @ P2, P4, P6	
Temperature (deg. C)		0				
(Expansion Type : ROLLER NEST BEARING;ROLLER BEARING)						
(Fixed Type : PINNED BEARING)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside			N	5	Leaking and staining under South hanger. Some isolated cracks & leaching at most spans - underside of deck	
Stains (Percent Area)		5				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 8 Spans, Lengths(m): 25.3-35.1-35.1-35.1-35.1-35.1-25.3, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		6	6	Medium scaling
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				Light scaling. Small transverse cracks at ends.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Pier Shaft/Piles		6	6	
Nose Plate		6	6	
Paint/Coating		N	5	Superficial corrosion - 50% of nose plates.
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	
Scour		N	N	Water too deep to see scour
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		9	9	
Bank Stability		7	7	
HWM (m below Top of Curb)	7.0			Based on loose South headslope
Drift (Y/N)	Yes			
Slope Protection		6	6	Natural, concrete rubble, and bagged concrete
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Patch posts					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace missing bolts.					
RESET/ PAINT BEARINGS							
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) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	51.3/51.3	Est. Repl. Yr	2026	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	10-Sep-2013		Previous Inspection Date	23-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							