

Bridge Inspection										
Bridge File Number	78224 -1 Bridge				Form Type	TH TT				
Year Built/Year Supstr	1975/1913				Lot No.	2				
Bridge or Town Name	COCHRANE				Inspector Name	Garry Roberts				
Located Over	WAIPAROUS CREEK, 2.13.49.4, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	LOCAL ROAD				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	01-Mar-2012				
Legal Land Location	NE SEC 14 TWP 28 RGE 8 W5M				Data Entry By	Erin Roberts				
Longitude, Latitude	-115:01:07, 51:23:48				Data Entry Date	26-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	UNDEFINED CMA				Review Date	07-Mar-2012				
Clear Roadway/Skew	4.3 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	50 / 2011 (E)				Dept. Review Date	29-Mar-2012				
Road Classification	RLU-207G-60				Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single	H 19 U1L1		Semi	HS 26 L2L3		Train	CS3 32 L2L3		----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	4.5	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	4.5	In Advance (Y/N)	Yes
Remarks	MEASURED CLEARANCE 4.57M Both ends Advance hidden by trees EB. Signs are faded.											
Required Load Posting (t)	Single		20		Semi		27		Truck Train		32	
Posted Loading (t)	Single		20.0		Semi		27.0		Truck Train		32.0	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)		No	At Bridge (Y/N)		Yes		
Posted:	Lane	WB	At Junction (Y/N)	Yes	In Advance (Y/N)		No	At Bridge (Y/N)		Yes		
Remarks	CS1 & CS2 Posted 1 tonne higher than allowable											
Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types	STOP TO ONCOMING TRAFFIC, NARROW BRIDGE.											

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	5	POSTED 30 KM/HR INSIDE CAMPGROUND. Lockable gate @ East End. Gate is locked in winter.
Vertical Alignment		5	5	
Roadway Width (m)	6.500			East rail @ 90 deg to bridge. Not Thriebeam.
Approach Bump		4	5	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	3.800			
Current Standard (Y/N)	No			
Termination Type	Wing			
Drainage		4	5	

Approach Road				
		Last	Now	Explanation of Condition
Approach Road General Rating		4	5	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : TH, 3 Spans, Lengths(m): 7.3-33.5-8.8, A-Ident Number: A0575-04)				
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last	5	0	0	0
Now	100.0	0.0	0.0	0.0
Wearing Surface/Deck Top		5	N	Snow PR 5.
(Material Type : UNTREATED TIMBER)				
(Plank Thickness(mm) : 75)				
(Plank Width(mm) : 300)				
Deck Rideability		7	7	
Deck Joints		X	X	
Temperature (deg. C)				
(Expansion Type :)				
(Fixed Type :)				
Gap Size (mm)		Gap Location		
Curbs/Wheel Guards		3	4	Retainers have rot and some displaced. 1 WG block is split.
(Curb Type : Standard)				
(Type : TREATED TIMBER)				
(Thickness(mm) : 150)				
(Width(mm) : 300)				
Bridge Rail		4	4	1 LAYER-flexbeam Missing 2 rail to post bolts at East end
(Type : GALVANIZED STEEL FLEX BEAM)				
Bridge Rail Posts/Blocking		5	5	
(Type : GALVANIZED POST STEEL;UNTREATED TIMBER)				
Bridge Rail/Posts Coating		5	5	
(Type : PAINT;GALVANIZED)				
Sidewalk		X	X	

Superstructure						
Bridge Component		Last		Now	Explanation of Condition	
(Primary Span : TH, 3 Spans, Lengths(m): 7.3-33.5-8.8, A-Ident Number: A0575-04)						
Wide Load Damage (Y/N)	No				Minor high load scrape at East portal.	
High Load Damage (Y/N)	Yes				Numerous torch cut holes & slight sags @ connections of TC. Random fabrication errors, drilling extra holes. Dents to South truss minor. Bay 2 TCB Bowed up due to misfit @ U3L3 N & S. U5L5N 3 leaning bolts at U5N Numerous open holes, Torch cut holes, Loose bolts @ u/s - from UT Report No hanger bolts @ all LCB 25mm sag @ BC, dented flanges	
Top Chord			4	4		
Batter Posts			6	6		
Sway Bracings			4	4		
Diagonals			5	5		
Verticals			5	5		
Portals			6	6		
Connections			4	4		
Floor Beams			5	5		
Bottom Chord			4	5		
(No. of Stringers : 42)						7/ bay x 6 bays
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		One rotted nailer South @ Bay 2 under bridge @ South exterior stringer
Last						
Now					Ext stringers C- channel 68x304	
Stringers			5	4	For Details, see UT 2011 Report. Stringer 5 top web is twisted approximately 70mm over P2 from overload.	
(Type : STEEL)						
(Width(mm) : 127)						
(Depth(mm) : 304)						
(Spacing(mm) : 786)						
Paint Condition			6	6	Isolated top coat peeling	
(Colour Description : BROWN)						
(Colour Code : 30252)						
Touchup Required (Y/N)	No					
Bearings			5	6	P1 P2	
Temperature (deg. C)	-3					
(Expansion Type : SLIDING PLATE)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)	Yes					
Sub Deck/Deck Underside			4	4	Laminated subdeck. Isolated rot at ends.	
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 38)						
Defects (Percent Area)	2					
Span Alignment Problems						
Vertical (Y/N)	Yes				Approx 75 mm sag across center span.	
Horizontal (Y/N)	No					
Superstructure General Rating			4	4		
Superstructure						
Bridge Component		Last		Now	Explanation of Condition	
(Secondary Span : TT)						
Special Features						
Special Feature						
(Type :)						
Special Feature						
(Type :)						

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Secondary Span : TT)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	5	0	0	0		
Now	100.0	0.0	0.0	0.0		
Wearing Surface/Deck Top				4	N	(15% Worn and rotted planks in wheel lines @ East and West timber spans)
(Material Type : UNTREATED TIMBER)						
(Plank Thickness(mm) : 75)				Snow. PR 4.		
(Plank Width(mm) : 300)						
Deck Rideability				5	5	
Wheel Guards				5	5	
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 150)						
(Width(mm) : 300)						
Bridge Rail				4	4	1 LAYER-1 section lapped incorrectly @ NE. Missing 1 rail to post bolt nut.
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				3	3	9 rotted posts
(Type : GALVANIZED POST STEEL;UNTREATED TIMBER)						
Bridge Rail/Posts Coating				5	5	
(Type : PAINT;GALVANIZED)						
(No. of Stringers : 9;10)				3 stringers in East span have excessive twisting. Shimmed adequately.		
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		200x400@550@ West span
Stringers				5	5	
(Type : TREATED TIMBER)						
(Width(mm) : 205)						
(Depth(mm) : 320)						
(Spacing(mm) : 505)						
Sub Deck/Deck Underside				5	4	Laminated. Isolated rot at ends.
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 38)						
Defects (Percent Area)		2				
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				5	4	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 600)						

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : 1:1)				Suspect rot at both abutments- from UT inspection.				
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Bearing Seats/Caps/Corbels			4				4	
(Type : TREATED TIMBER)								
(Depth(mm) : 300)								
(Width(mm) : 300)								
Backwalls/Breastwalls			5				5	
Greatest Height (m)		1.20		Constructed of 2" x 4" UTT on edge				
Wingwalls			5				5	
(Total Number of Bearing Piles : 5:5)				East abutment piles visible at tops only.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	5	0	0				0	
Now	0	0	0				0	
Piles			5				5	
Paint/Coating			X				X	
Abutment Stability			7				7	
Scour/Erosion			4				5	
Piers/Bents								
(Type : PIER-COLUMN)				300 x 300 TT caps on CIP. pier cap.				
(Total Number of Caps/Corbels : 2:3)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Bearing Seats/Caps/Corbels			5				5	
(Type : CONCRETE)								
(Total Number of Bearing Piles : 0:0)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	0	0	0	0				
Now	0	0	0	0				
Pier Shaft/Piles			7	7				
Greatest Height (m)		5.50		Ice.				
Bracing/Struts/Sheathing			X				X	
Nose Plate			X	X				
Paint/Coating			X	X				
(Colour Description :)								
(Colour Code :)								
Pier Stability			7	7				
Scour			6	N				
Debris (Y/N)		No						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Flow directs at pier 1 nose during elevated flow.
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		6	6	
HWM (m below Top of Curb)	6.0			From previous inspection. No visible HWM.
Drift (Y/N)				
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	7	
(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	2012	Replace approach span posts (x18)					
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	Replace 1 block and retainer strips at next stripdeck replacement.					
PATCH DECK	2012	Replace 5 75 x 300 x 8.0 TT planks					
REPLACE STRIP DECK							
REPLACE SUB DECK	2015	Subdeck may require replacement when strip deck replaced.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2012	Replace 3 leaning bolts U5L6N at U5N					
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2012	Core abutment caps					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Install hazard markers Change clearance signs to 4.4m, change CS1, CS2, CS# to read 19, 26, 32					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2012	Cut back vegetation from VC sign and West approach to improve sightline @ curve.					
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	18.7/26.2	Est. Repl. Yr	2024	Maint. Reqd. (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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	01-Jun-2015		Previous Inspection Date	20-Jun-2011			
Inspection Cycle (Default) (months)	39						
Comment							