

Bridge Inspection											
Bridge File Number	13545 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1987/1987				Lot No.	4					
Bridge or Town Name	COCHRANE				Inspector Name	Garry Roberts					
Located Over	ELBOW RIVER, 2.13.33, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	22:14 C1 34.737				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	12-Jun-2012					
Legal Land Location	NW SEC 11 TWP 24 RGE 4 W5M				Data Entry By	Kelsey Roberts					
Longitude, Latitude	-114:28:00, 51:01:58				Data Entry Date	05-Jul-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Ash Morjaria					
Contract Main. Area	CMA27				Review Date	19-Jun-2012					
Clear Roadway/Skew	13 / 30 deg. (RHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	9,690 / 2011 (A)				Dept. Review Date	12-Jul-2012					
Road Classification	RAU-213.4-120				Follow-Up By						
Detour Length (km)	20										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> 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	River I.D.									

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Not thriebeam Incorrect splices @ SW, SE & NE.				
Vertical Alignment			9	9					
Roadway Width (m)		13.800							
Approach Bump			5	5					
Guardrail (Y/N)		Yes							
Guardrail			3	4					
Length (m)		34.200							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>8</b>	<b>8</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 2 Spans, Lengths(m): 40-40, A-Ident Number: A1077-01</b> )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Rutting to 50mm SBL at Sp.1- worst area has been patched. Randon transverse cracking- all sealed
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>90</b> )					
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	7	
Temperature (deg. C)		18			
(Expansion Type : <b>ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
15		North			
25		South			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			8	8	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			8	8	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder/Beam</b>					
Cover Plate			X	X	Bottom flanges are wavy, can find distortion in all girders. 3rd from SE is worst - like this @ fabrication - in tension flange of girder. 15mm distortion.
Flange			6	6	
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 : <b>WG, 2 Spans, Lengths(m): 40-40, A-Ident Number: A1077-01</b> )				
Paint Condition		X	X	Weathering steel, minor flaking on bottom flanges to outside.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		5	5	Pads are turning @ some locations - no keeper plates at A2 installed. No real problem yet. Worst ones @ south abut which were offset 40 and 70mm have been reset Up to 40mm offset @ N Abut
Temperature (deg. C)	15			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Efflorescence @ cracks @ deck exterior & @ North span.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		8	7	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		8	7	Galvanized
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			Drift @ pier- minor

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Channel migrates regularly
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		6	6	Steep cut beyond spur @ SW.
HWM (m below Top of Curb)	2.8			Water was within 1m of bottom flanges in June/95 during flood. Drift @ banks and stream
Drift (Y/N)	Yes			
Slope Protection		8	8	Class II rock.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		8	8	
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>6</b>	<b>6</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.5/61.5</b>	Est. Repl. Yr	2043	Maint. Req. (Y/N)	No
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	12-Mar-2014		Previous Inspection Date	29-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							