

Bridge Inspection											
Bridge File Number	70009 -1 Bridge				Form Type	CON					
Year Built/Year Supstr	1953/1953				Lot No.	2					
Bridge or Town Name	LUNDBRECK				Inspector Name	Garry Roberts					
Located Over	CROWSNEST RIVER, 2.12.37, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	3A:06 C1 1.261				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	29-Nov-2011					
Legal Land Location	SE SEC 28 TWP 7 RGE 2 W5M				Data Entry By	Anne Roberts					
Longitude, Latitude	-114:12:25, 49:35:02				Data Entry Date	08-Jan-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey					
Contract Main. Area	CMA26				Review Date	07-Dec-2011					
Clear Roadway/Skew	8.5 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	230 / 2010 (A)				Dept. Review Date	10-Jan-2012					
Road Classification	RAU-209-110				Follow-Up By						
Detour Length (km)	1										
Allowable Load (t):	Single	CS1 28			Semi	CS2 40			Train	CS3 54	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span	
Posting Information											
Required Load Posting (t)	Single			Semi			40	Truck Train	54		
Posted Loading (t)	Single			Semi			40.0	Truck Train	54.0		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N)	No			
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N)	Yes			
Remarks											
Hazard Marker At Bridge (Y/N)	No										
Remarks											
Other Sign Types	Curve, 75km/hr										
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	Curves both ends						
Vertical Alignment			6	6							
Roadway Width (m)	8.500										
Approach Bump			5	5							
Guardrail (Y/N)	Yes				Wrong lap at SW. Missing 2 splice bolts at SE and SW and post nut at SW.						
Guardrail			4	4							
Length (m)	30.000				Not thriebeam						
Current Standard (Y/N)	No										
Termination Type	TURNED DOWN										
Drainage			7	5	Minor erosion at NE.						
Approach Road General Rating			6	6							

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : CA, 1 Spans, Lengths(m): 73.8, A-Ident Number:)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last	0	0	0	0			
Now	0.0	0.0	0.0	0.0			
Wearing Surface			6	6	Chipcoat on EPOXY ON HD CONCRETE - 130 mm TOTAL.		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			5	5	Seal protrudes above deck by 10mm at both abutments, joints, but appears still functioned with no signs of leakage		
Temperature (deg. C)		-3					
(Expansion Type :)							
(Fixed Type : BUFFER ANGLES;COMPRESSION SEAL (ACME SEALS))							
Gap Size (mm)		Gap Location					
60	W. pier						
55	E. pier						
Deck Drainage			7	7			
Drains Clogged (Y/N)		No					
Curbs/Median			5	5	RUST SPOTS ON STIRRUPS		
(Curb Type : Standard)							
Scaling (Percent Area)		2					
Bridge Rail			7	7	SEVERAL POSTS HAVE WIDE CRACKS @ NORTH		
(Type : STEEL VERTICAL BAR)							
Bridge Rail Posts			5	5			
(Type : CONCRETE;CONCRETE)							
Bridge Rail/Posts Coating			6	5			
(Type : PAINT)							
Sidewalk			5	5	TRANSVERSE CRACKS		
Girders			X	X			
Diaphragms/Cross Frame			X	N			
Bearings			X	X	integral		
Temperature (deg. C)							
(Expansion Type :)							
(Fixed Type :)							
Coating Adequate (Y/N)							
Functioning (Y/N)							
Deck Underside			4	4	CIP arch// U/S deck has narrow to medium width cracks with efflorescence Cross members have medium to wide vertical cracks most prominent 2m from north each member - 50% are leaching.		
Stains (Percent Area)		3					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CA, 1 Spans, Lengths(m): 73.8, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	Yes			Deck has dropped 20mm @ pier #2.
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		X	X	
Backwalls/Breastwalls		6	6	Wide vertical settlement crack in A2
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		6	6	Pigmented sealer
Abutment Stability		7	7	
Scour/Erosion		8	8	
Piers/Bents				
(Type :)				Spalls at both ends of West pier cap under joint,3 to 4mm wide vertical cracks @ pier 2 + 4 caps. Spall at North end of East pier under East joint.
Bearing Seats/Caps		3	3	
(Type :)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		8	8	BEDROCK
(Type :)				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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	2012	Install waterproof pier joints					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair West pier spalls approx 3m2 and East pier spall approx 1m2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	56.0/56.0	Est. Repl. Yr	2025	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	29-Aug-2013		Previous Inspection Date	18-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							