

Bridge Inspection							
Bridge File Number	01153 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1959/1959			Lot No.	1		
Bridge or Town Name	LUNDBRECK			Inspector Name	Garry Roberts		
Located Over	OLDMAN RIVER, 2.12, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	22:08 C1 0.038			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	18-Jun-2012		
Legal Land Location	NW SEC 1 TWP 10 RGE 2 W5M			Data Entry By	Erin Roberts		
Longitude, Latitude	-114:09:07, 49:47:54			Data Entry Date	16-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Joel Wozney		
Contract Main. Area	CMA26			Review Date	26-Jun-2012		
Clear Roadway/Skew	7.9 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	2,210 / 2011 (A)			Dept. Review Date	17-Jul-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 46 GIRDER	Semi	CS2 55 GIRDER	Train	CS3 65 GIRDER	----> 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	Not required							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks								
Other Sign Types	River I.D. and Highway I.D.							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	Conduit on West & East side under curb		Gas
Power	2 wire 20m East		Municipal
Others	Fibre optics @ West RW		Problem (Y/N) Yes
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	
Vertical Alignment		6	6	
Roadway Width (m)	11.500			
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Has 6 steel posts @ 1m spacing Minor damage throughout Wrong lap at NW and SE. Missing timber block at SE wing Not thriebeam.
Guardrail		4	3	
Length (m)	38.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		6	6	
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PO, 4 Spans, Lengths(m): 20.7-29-29-26.8, A-Ident Number:)						
Special Features						
Special Feature		7	7			
(SType : EXT SHEAR STIRRUP)						
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	3.0		
Wearing Surface		4	3	CHIPCOAT ON EPOXY ON CONCRETE Numerous patches Approx 8 locations of spalling in concrete. 1m2 spall in N/B lane of Sp.1 and S/B lane of Sp.3		
(Material Type : CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)	No					
Deck Top		N	N			
Deck Rideability		6	6			
Deck Joints		7	7			
Temperature (deg. C)		12				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
80		N abutment				
75		Pier 3				
75		Pier 2				
70		Pier 1				
80		S abutment				
Deck Drainage		7	7	Retrofit drains @ North		
Drains Clogged (Y/N)		No				
Curbs/Median		5	4	VERTICAL CRACKS AT APPROX 500 mm O.C. Scaling @ curb underside and fascia with minor spalls.		
(Curb Type : Standard)						
Scaling (Percent Area)		10				
Bridge Rail		6	6	2 bolt/nut missing at post base - at pier 1. East & West sides.		
(Type : STEEL NON-STANDARD RAIL)						
Bridge Rail Posts		3	3	10% EDGE CORROSION		
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating		4	4			
(Type : PAINT)						
Sidewalk		X	X			
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Girders		7	7	Typical Minor shoe plate cracks and spalls.		
Cracking (Y/N)		Yes				
Spalling (Percent Area)		5				
(Number Of Girders : 19)						
Diaphragms/Cross Frame		7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 4 Spans, Lengths(m): 20.7-29-29-26.8, A-Ident Number:)				
Bearings		5	5	Painted with galvacon. Cracks at piers indicate bearings may be frozen -worst at P1 and P3.
Temperature (deg. C)	12			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Isolated minor cracks with staining at Sp. 4
Stains (Percent Area)	2			
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/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	Missing bridge plaques at wingwalls
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	South bank is eroding
Piers/Bents				
(Type : PIER-COLUMN)				6mm WIDE SPALL CRACKING @East end of pier 3 BELOW BEARINGS 3+5. 15mm wide crack and spall at P1 east end under bearing.
Bearing Seats/Caps		3	3	
(Type : CONCRETE)				One VERTICAL CRACK IN BOTTOM SOLID SHAFT PER PIER.
(Total Number of Bearing Piles : 2:2:2)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	SUPERFICIAL RUSTING - 25% @ North Plates.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		6	6	
Debris (Y/N)	No			
Substructure General Rating		3	3	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	7	
Bank Stability		5	3	Vertical bank at South with steep erosion gulley at SW.
HWM (m below Top of Curb)				No Visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	Natural shale at South.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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	2012	Install 4 post A/B. Install 220x 400 timber block at SE. Replace 1 approach rail section.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Approx. 10m2					
SEAL DECK							
OVERLAY DECK	2015	HPC overlay.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair SW erosion 25m3 Cl. 2					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	CHIP OUT TO SOUND CONCRETE + REBAR & PATCH P1 and P 5 - may require falsework at pier 1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	45.6/45.4	Est. Repl. Yr	2028	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Use caution when inspecting South headslope due to steep erosion gully.		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	18-Mar-2014		Previous Inspection Date	07-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							