

Bridge Inspection											
Bridge File Number	77316 -2 Bridge				Form Type	SG					
Year Built/Year Supstr	2002/2002				Lot No.	1					
Bridge or Town Name	COALSPUR				Inspector Name	Wade Nanninga					
Located Over	BRAZEAU RIVER, 6.149, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	734:22 C1 26.987				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	22-Apr-2013					
Legal Land Location	SW SEC 16 TWP 45 RGE 18 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-116:33:29, 52:52:41				Data Entry Date	30-Apr-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA13				Review Date	29-Apr-2013					
Clear Roadway/Skew	9 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	120 / 2012 (A)				Dept. Review Date	01-May-2013					
Road Classification	RLU-208G-90				Follow-Up By						
Detour Length (km)	250										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> 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									

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			3	4	Winding road with steep vertical curve at both approaches. Posted for 35km/hr. Bridge on uphill grade both directions.				
Vertical Alignment			3	4					
Roadway Width (m)		7.700							
Approach Bump			7	7					
Guardrail (Y/N)		Yes							
Guardrail			6	6					
Length (m)		17.300							
Current Standard (Y/N)		Yes							
Termination Type		Turned Down							
Drainage			4	4	Heavy gravel buildup under NW rail.				
<b>Approach Road General Rating</b>			<b>4</b>	<b>4</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : <b>WG, 2 Spans, Lengths(m): 56-56, A-Ident Number: A1417-01</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>							
<b>Now</b>							
Wearing Surface			6	5	Marred by winter chains & equipment. Transverse cracks every 2m.  205mm - 255mm deck slab.		
(Material Type : <b>CONCRETE</b> )							
(Thickness(mm) : <b>75</b> )							
Deck Top			N	N			
Deck Rideability			9	9			
Deck Joints			X	X	Semi-intergal abutments.  Type I @ both abutment only.		
Temperature (deg. C)		0					
(Expansion Type : )							
(Fixed Type : )							
Gap Size (mm)		Gap Location					
Deck Drainage			5	5	No curbs Not much cross slope, ice on deck at South abut. due to bridge grade.		
Drains Clogged (Y/N)							
Curbs/Median			X	X			
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)							
Bridge Rail			6	4	Thrie beam. Accident damage at NW- still functioning - post bent.  Strengthened with retrofit post anchorage.		
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )							
Bridge Rail Posts		8	3				
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating		8	8				
(Type : <b>GALVANIZED</b> )							
Sidewalk			X	X			
<b>Girder/Beam</b>							
Cover Plate			X	X	Small nick on bottom flange of S1G1 near south abutment - construction		
Flange			8	7			
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): 56-56, A-Ident Number: A1417-01</b> )				
Paint Condition		8	8	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	0			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	6	Random narrow transverse cracking with efflorescence staining every 2m. <1.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		9	9	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		9	9	
Scour/Erosion		9	9	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				4 - 1219mm dia concrete columns with steel casing. Viewed from South abutment with binoculars.
Bearing Seats/Caps		9	9	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	
Nose Plate		X	X	
Paint/Coating		5	5	Red primer only steel.
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	9	
Scour		9	N	
Debris (Y/N)	Yes			Drift on gravel bar.
<b>Substructure General Rating</b>		<b>9</b>	<b>9</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		6	6	River has cut limestone bank vertical in some places - no problem.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection (Type : <b>RIP RAP; RIP RAP</b> )		9	9	
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(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	2013	Post/thrie beam @ NW					
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	2013	Remove gravel windrow under NW approach guardrail.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>68.3/64.3</b>	Est. Repl. Yr	2082	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Consider chipseal surface on deck to protect it from further damage by vehicle winter chains. Have AT confirm UT inspection was done on SP1G1.		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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	22-Jul-2016		Previous Inspection Date	22-Nov-2009			
Inspection Cycle (Default) (months)	39						
Comment							