

Bridge Inspection										
Bridge File Number	78765 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1979/1979				Lot No.	2				
Bridge or Town Name	COALSPUR				Inspector Name	Shane Hall				
Located Over	EMBARRAS RIVER, 8.11.107.33, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	47:06 C1 0.477				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	16-Oct-2012				
Legal Land Location	SW SEC 33 TWP 48 RGE 21 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-117:00:48, 53:11:03				Data Entry Date	14-Nov-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA13				Review Date	12-Nov-2012				
Clear Roadway/Skew	10.7 / -25 deg. (LHF)				Dept. Reviewer Name	Brent Herrick				
AADT/Year	1,020 / 2011 (A)				Dept. Review Date	20-Nov-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	126									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49						
Design Loading:	MS23						----> 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	CS3 allowable is below legal limit.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Information, "Embarras River" at SE & NW.								

Utilities (Located at)										
Utility Attachments										
Telephone	East r/w.				Gas					
Power	3 wires West r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			6	6	Curve on both ends limiting sight distance, approach SW corner.				
Vertical Alignment			6	6					
Roadway Width (m)	12.000				Not thrie beam One split post @ SW corner.-photo				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			4	4					
Length (m)	26.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	4	Erosion @ SW headslope(5m long, 0.6m wide, 0.3m deep.)PHOTO Wide cracks in NW drain trough.-photo Erosion guly 0.5m wide x 0.3m deep x 3m long @ NW corner is undermining drain trough.-photo				
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>FM, 1 Spans, Lengths(m): 38, A-Ident Number: </b> )					
<b>Special Features</b>					
Special Feature		8	8		
(Type : <b>EXT LATER POST TENS</b> )					
Special Feature		8	7		
(Type : <b>UNDERSLUNG DIAPHR</b> )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>					
Wearing Surface		6	5	Longitudinal cracked routed & epoxy sealant - previous to lateral stressing. (Tyne finish worn.-03-Feb-2009) Approx 10% of chipseal worn off around deck joints. Chipseal over concrete.	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		4	3	(Loose cover plate NBL, missing 6bolts - photo. -09-Nov-2010 Covered by dirt.) Seepage stains below North abutment joint. One missing plow guard at A2.-photo South coverplate rattles under traffic.	
Temperature (deg. C)	1				
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)	Gap Location				
82	S. abut				
68	N. abut				
Deck Drainage		5	4	Erosion gully(5m long, 0.3m deep, 0.6m wide) on headslope @ SW.- photo No deck drains	
Drains Clogged (Y/N)	No				
Curbs/Median		4	4	2.5m long delam @ West curb.-photo Other delams along South curb. 50mmx100mm spall at NE approach.-photo 50mmx300mm spall at SW approach.-photo	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)	30				
Bridge Rail		7	7	Surface rust forming.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		5	6		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		5	5		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>FM, 1 Spans, Lengths(m): 38, A-Ident Number: )</b>				
Girders		4	5	Typical narrow chamfer cracks, hairline longitudinal cracks bottom of leg. G6 South end marked. G7 vertical crack. Longitudinal crack underside deck G4N, G7N. Diagonal crack into top flange G3N, G5N, G6N, G7N.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 7)				Spall at N end of G7.-photo
Diaphragms/Cross Frame		4	4	Cracks in South end diaphragm @ G6 with corrosion staining due to leaking joint. Diaphragm at G7 N spalled due to low cover.
Bearings		5	5	South abutment bearings are salt stained, and some superficial rust. Concrete thrust block cracked @ SE & SW.
Temperature (deg. C)	10			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	5	Rust staining at 50% of girder cold joints.-photo
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		4	4	Horizontal crack under G7 @ A1 - photo. Stained by leaking joint (A1). Wide horizontal crack at top of bearing seat under G5/G4 at A1, crack 2.5m long.-photo
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		5	4	Wide horizontal crack at SE corner.
Piles		5	5	Exposed at A1
Paint/Coating		4	5	Wingwall coating 50% peeled. Sealer on abutment seats in good condition.
Abutment Stability		7	7	
Scour/Erosion		4	4	Snow melt/rain at both abutments run through headslope, worst at South abutment. South headslope settled 200mm exposing piles.-photo Erosion at SW headslope.-photo
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				CNR bridge 40m U/S.
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible. H-pile protruding from SB - photo.
Drift (Y/N)	No			
Slope Protection		7	7	Class I-II both abutments.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	



Proposed Action			
Previous Inspector's Name	Wayne Cappellani	Previous Assistant's Name	Bryan Wai
Next Inspection Date	16-Jul-2014	Previous Inspection Date	04-Oct-2012
Inspection Cycle (Default) (months)	21		
Comment			