

Bridge Inspection							
Bridge File Number	76558 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1970/1970			Lot No.	4		
Bridge or Town Name	ENTRANCE			Inspector Name	Shane Hall		
Located Over	WILDHAY RIVER, 8.11.118.3, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	40:30 C1 36.014			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	17-Oct-2012		
Legal Land Location	SW SEC 9 TWP 53 RGE 27 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:55:14, 53:33:32			Data Entry Date	26-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA13			Review Date	19-Nov-2012		
Clear Roadway/Skew	9.1 / -25 deg. (LHF)			Dept. Reviewer Name	Brent Herrick		
AADT/Year	2,040 / 2011 (A)			Dept. Review Date	06-Dec-2012		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	420						
Allowable Load (t):	Single	CS1 43 GIRDER	Semi	CS2 55 GIRDER	Train	CS3 76 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	Information, Curve on SB, "Wild Hay River" @ SE.						

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Private intersection 100m North. Limited sight distance and curves, horizontal & crest. No passing SB. Bridge on uphill grade to South.
Vertical Alignment		6	6	
Roadway Width (m)	9.500			Insufficient posts, no thrie beam.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		5	5	
Length (m)	64.600			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		N	6	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 21.3-21.3-21.3, A-Ident Number:)					
Special Features					
Special Feature		8	8	30mm dia epoxy coated dywidag tierod @ each interior diaphragm.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	100	0	0	0	
Now					
Wearing Surface		N	5	S2 and S3 SB have wide intermittent longitudinal cracks and random cracks. -08-Feb-2009 Wearing at deck joints	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		4	5	Remnants of old trough @ S abut. and rusted girder side splash guard at both abuts.	
Temperature (deg. C)		3			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
45		S. abut			
83		S. pier			
80		N. pier			
80		N. abut			
Deck Drainage		4	5	Steep grade, drain to North. damp at seat, breastwall & girder ends. No deck drains.	
Drains Clogged (Y/N)		No			
Curbs/Median		N	5	Several areas on top of both curbs with low cover on rebar and rust staining - not repairable.	
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail		7	7	Base plate rusting, galvanize reaction with grout.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		6	6		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	S2 girders viewed from banks.
Last	6	0	0	2	
Now				2	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 21.3-21.3-21.3, A-Ident Number:)					
Girders		3	3	S3, rust spots @ most girder ends. S2/G1, exposed rebar @ North end. S1/G6 long cracks in W leg in 2 locations, corrosion stains from stirrups. S1G6 & S3G1 wide vertical crack with rust stain @ N end of girder-photo. S3G1 cracks and spall with exposed rebar due to low cover.-photo S2 - several girders with rust staining on underside of legs due to low cover on rebar.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	0				
(Number Of Girders : 18)					
Diaphragms/Cross Frame		4	4	Efflorescence stains on G1 @ A1, A2, P1 & P2. Exposed rebar @ G1, G2,P2.	
Bearings		6	6	Grout pad spalled at NE abutment seat. Pier bearings insp. from headslopes.	
Temperature (deg. C)	3				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		6	5	Staining @ top diaphragms. Staining at S3G1 from weep tubes. Rust staining around diaphragm @ S end of 3363.	
Stains (Percent Area)	2				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		3	3		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7	8	
(Type : CONCRETE)					
Backwalls/Breastwalls		6	6		
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		6	6		
Abutment Stability		7	7		
Scour/Erosion		3	5		
Piers/Bents					
(Type : PIER-SOLID)			Stained from previous leaky joint.		
Bearing Seats/Caps		6			
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		X	X		
Nose Plate		8	8		
Paint/Coating		6	6		
(Colour Description : RED)					
(Colour Code : 21310)					
Pier Stability		8	8		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		N	6	Iced over.
Debris (Y/N)	Yes			@ P1 -drift
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Some accumulation at South bank.
Slope Protection		4	6	Class 2 North & South toe only.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Comment	
---------	--