

Bridge Inspection									
Bridge File Number	77206 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1971/1971				Lot No.	2			
Bridge or Town Name	SLAVE LAKE				Inspector Name	Wade Nanninga			
Located Over	SAWRIDGE CREEK, 8.11.80.26, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	88:02 C1 2.130				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Mar-2013			
Legal Land Location	NE SEC 31 TWP 72 RGE 5 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:45:14, 55:17:03				Data Entry Date	16-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA06				Review Date	11-Apr-2013			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	2,640 / 2012 (A)				Dept. Review Date	23-Apr-2013			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single		Semi		Train		----> 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)	No								
Remarks	Not required.								
Other Sign Types	Information, Max 80 kph, "Sawridge Creek".								

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Entrances at both ends. Horizontal curve with limited sight distance. Superelevated. Within town of Slave Lake, 60 kph.				
Vertical Alignment			8	8					
Roadway Width (m)		8.300			Not thrie beam				
Approach Bump			7	6					
Guardrail (Y/N)		Yes							
Guardrail			6	6					
Length (m)		30.400							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PM, 3 Spans, Lengths(m): 12.2-12.2-12.2, 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	10.0					
Wearing Surface			4	4	Wide random cracks . Pothole @ Soth end.-photo	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			N	N	Paved over. North abutment joint leaking due to staining of seat below.	
Temperature (deg. C)		0				
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Deck Drainage			4	4	No deck drains. Seepage through joints staining seats & caps.	
Drains Clogged (Y/N)						
Curbs/Median			7	N		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Insufficient thread 10%.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			4	N		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			7	N		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	S2G3 shallow cover - rebar exposed. S2G9 wide long. crack - 1m long with stains.	
Last	15	0	0	0		
Now				1		
Girders			N	3		
Cracking (Y/N)		Yes			9 girders have rust spots on girder underside not related to strands. Numerous fabrication form marks on underside of girder. Minor chips on North span. West curb bottom (construction), no problem.(S2G9 U/S honeycomb with staining from poor consolidation during fabrication.	
Spalling (Percent Area)		0				
(Number Of Girders : 45)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 12.2-12.2-12.2, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	0			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	3	See girder comment.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Delam cracks , cracks with efflorescence
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		5	4	Horizontal cracks in cap at several pile locations, typical
(Type : CONCRETE)				
(Total Number of Bearing Piles : 10:10)				
Pier Shaft/Piles		7	7	End piles are battered.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Rust stains.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		7	7	
Scour		7	N	
Debris (Y/N)	Yes			Drift sitting on S abutment
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction :)				Moderate bend in channel U/S of bridge.
(D/S Direction :)				
Alignment		7	7	
Bank Stability		5	5	Vertical banks along channel.
HWM (m below Top of Curb)				HWM not visible. Up to 100mm diameter drift on SW bank.
Drift (Y/N)		Yes		
Slope Protection		5	5	
(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		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Seal/patch deck ACP cracks/ chipseal					
OTHER ACTION	2013	Epoxy inject - crack repair on S2G9.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	56.8/53.4	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor pier caps.		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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	27-Dec-2014		Previous Inspection Date	14-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							