

Bridge Inspection									
Bridge File Number	73921 W-1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1980/1980				Lot No.	2			
Bridge or Town Name	FOX CREEK				Inspector Name	Brian Pientsch			
Located Over	IOSEGUN RIVER, 8.10.58.7.32, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	43:12 L1 17.024				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	28-Nov-2012			
Legal Land Location	SE SEC 35 TWP 61 RGE 18 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:35:11, 54:18:54				Data Entry Date	08-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA03				Review Date	19-Dec-2012			
Clear Roadway/Skew	13.1 / -30 deg. (LHF)				Dept. Reviewer Name	David Morrison			
AADT/Year	6,290 / 2011 (A)				Dept. Review Date	19-Mar-2013			
Road Classification	RAD-412.4-120				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS230						----> 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	Curve signs, Iosegon River								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	200m S. of c/l - 1 line				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	on curve superelevated in between two. hills				
Vertical Alignment			5	5					
Roadway Width (m)	13.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			7	3	Two posts with blocks knocked off NW of bridge.-photo				
Length (m)	67.000								
Current Standard (Y/N)	Yes								
Termination Type	TURNED DOWN								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RM, 3 Spans, Lengths(m): 12-12-12, A-Ident Number: )							
<b>Special Features</b>							
Special Feature			X				
(Type : )							
Special Feature			X				
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.		
<b>Last</b>	20	0	0	0			
<b>Now</b>	70.0						
Wearing Surface			7	7	1 - 1.5m of GBC on deck. (Experiment to reduce deck icing - 930830).		
(Material Type : <b>ACP</b> )							
(Thickness(mm) : <b>50</b> )							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N			
Deck Rideability			6	6			
Deck Joints			X	X			
Temperature (deg. C)		-16					
(Expansion Type : )							
(Fixed Type : )							
Gap Size (mm)		Gap Location					
Deck Drainage			N	N	Curb covered in fill. Water flows over top and over outside edge of curb. Water draining between S1G 13, 14 + 15 A1.		
Drains Clogged (Y/N)		Yes					
Curbs/Median			N	N	1 x 0.3m spall S curb. photo-07-May-2009 Snow/fill covered.		
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		2					
Bridge Rail			7	7	Guardrail runs continuously across bridge. Rust stains @ post locations. Tubular handrail on curb.		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )							
Bridge Rail Posts		7	7				
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating			7	4			
(Type : <b>GALVANIZED</b> )							
Sidewalk			X	X			
<b>Girder Detail Ratings</b>							
	N (count)	1 (count)	2 (count)	3 (count)	Rust staining on G1 & 15 on all spans due to drains. Spall @S1G13 0.5ml x 0.2m W x 0.03m D near P1.		
<b>Last</b>	0	0	0	1			
<b>Now</b>				1			
Girders			3	3	S2G2 7.0 long HL diagonal crack with rust stains and efflorescence.- photo. Spall on under-side of NW curb Girder. S3 G14,15,+ 12 insufficient cover on rebar chairs, on S2 G15,13,11,2 + S1G1 & G2.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
(Number Of Girders : <b>45</b> )							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 3 Spans, Lengths(m): 12-12-12, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	-16			
(Expansion Type : <b>NEOPRENE STRIP BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Narrow long crack outside AZ span 2 girder 2
Stains (Percent Area)	1			Staining from weep holes
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		X	X	
Wingwalls		N	N	Gap between planks 120mm at NE corner.-07-May-2009 Snow covered.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		4	7	150mm void under cap at SE & SW corners. Approx 5m L-repaired.
Scour/Erosion		4	7	150mm void under exp at SE and SW corners approx 5m L. -repaired.
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		4	4	Delam cracks on North end of Pier 1.-photo Spalling on corners of pier 1 both sides.-photo
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>8:8</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	pigmented sealer grey
(Colour Description : )				
(Colour Code : )				
Primer exposed at lower 1m. Sealer is flaking off caps.				
Pier Stability		7	7	
Scour		5	5	
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> )				
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection (Type : )		5	5	
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	(Patch spalls - carried over 07-Mar-2011)					
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	2013	Repair approach rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.8/53.4</b>	Est. Repl. Yr	2032	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girders.		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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	28-Aug-2014		Previous Inspection Date	07-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							