

Bridge Inspection									
Bridge File Number	77317 -2 Bridge				Form Type	PCS			
Year Built/Year Supstr	1999/1999				Lot No.	2			
Bridge or Town Name	GIFT LAKE				Inspector Name	Brian Pientsch			
Located Over	UTIKUMA RIVER, 8.10.18.22.4, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	88:04 C1 68.703				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Jun-2012			
Legal Land Location	NW SEC 11 TWP 81 RGE 9 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:18:06, 56:00:48				Data Entry Date	19-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA02				Review Date	01-Nov-2012			
Clear Roadway/Skew	10.7 / 15 deg. (RHF)				Dept. Reviewer Name	David Morrison			
AADT/Year	890 / 2011 (A)				Dept. Review Date	11-Jan-2013			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	300								
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)	No								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	East r/w.				Gas				
Power	North of bridge, crossing 150m.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Access roads to north and south.				
Vertical Alignment			7	7	Slight sag, good sight distance.				
Roadway Width (m)	10.300								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				3 broken posts @ NW approach - photo.				
Guardrail			3	3	Minor dents throughout.				
Length (m)	46.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 4 Spans, Lengths(m): 10.1-10.1-10.1-10.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			8	8	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			9	9	
Deck Joints			8	8	
Bump (Y/N)		No			
Deck Drainage			9	9	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Vertical hairline cracks on exterior curb face. 200 x 100mm spall on the west curb span 3.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Cap missing from NE post; top of post damaged.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	3		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			8	7	Hairline map cracking with corrosion around drains. Wide gaps between girders tied together with concrete overlay.
Last Complete Inspection Date		18-Jun-2012			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			8	7	

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : N)							
(Extended Backwall Piles Spacing(mm) :)							
(Total Number of Caps/Corbels : 1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)		Minor chipping/peeling in isolated areas.	
Last							
Now							
Bearing Seats/Caps/Corbels				8	8		
(Type : CONCRETE)							
(Depth(mm) :)							
(Width(mm) : 600)							
Backwalls/Breastwalls				8	8		
Greatest Height (m)		1.30					
Wingwalls				7	7		
(Total Number of Bearing Piles : 0:0)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)		Bearing pile cast into concrete abutment.	
Last	1						
Now	1	0	0	0			
Piles				N	N		
Paint/Coating				N	N		
Abutment Stability				8	8		
Scour/Erosion				7	7		
Piers/Bents							
(Type : PIER-COLUMN)							
(Total Number of Caps/Corbels : 1:1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Bearing Seats/Caps/Corbels				8	8		
(Type : CONCRETE)							
(Depth(mm) : 750)							
(Width(mm) : 800)							
(Total Number of Bearing Piles : 6:6:6)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Pier Shaft/Piles				8	8		
Greatest Height (m)		4.60					
Bracing/Struts/Sheathing				8	8		
Nose Plate				X	X		
Paint/Coating				4	5		
(Colour Description :)							
(Colour Code :)							
Pier Stability				8	8		
Pitting and scaling on South pier piles at ground level. Blue.							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Bends north U/S and D/S.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	Low flat banks. Class 1m rock under drains to prevent erosion.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	5	
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair bridge post.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Replace 3 broken guardrail posts @ NW corner.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/83.3	Sufficiency Rating (Last/Now) (%)	71.8/70.2	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Lisbeth Medina			
Next Inspection Date	18-Mar-2014		Previous Inspection Date	04-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							