

Bridge Inspection									
Bridge File Number	70723 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1984/1984				Lot No.	1			
Bridge or Town Name	SANDY BEACH				Inspector Name	Melanie Johnson			
Located Over	TRIBUTARY TO STURGEON RIVER, 6.65.16, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	642:02 C1 9.140				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	28-Jun-2011			
Legal Land Location	NW SEC 35 TWP 55 RGE 1 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:02:22, 53:47:52				Data Entry Date	06-Jul-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA09				Review Date	29-Jun-2011			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,390 / 2010 (A)				Dept. Review Date	18-Jul-2011			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	16								
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62	
Design Loading:	MS23							----> On Critical Spans ---->Critical Member	
----> Primary Span									
Posting Information									
Required Load Posting (t)			Single		Semi		Truck Train		
Posted Loading (t)			Single		Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	Bumpy road (before bridge).								
Utilities (Located at)									
Utility Attachments	GAS UTILITIES-GAS LINE								
Telephone	Buried on South side.				Gas	Crossing 100m West.			
Power	1 line 11m North c/l.				Municipal	Street lights.			
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curves at each end 50km/hr limit.				
Vertical Alignment			8	8	Road is supported by piles for 50m each side of bridge.				
Roadway Width (m)			9.500		Slight settlement at both ends creating small bump.				
Approach Bump			5	5					
Guardrail (Y/N)			Yes						
Guardrail			8	8					
Length (m)			99.000						
Current Standard (Y/N)			Yes						
Termination Type			Turn Down						
Drainage			3	4	Low spot at SE, potential for ponding. (Ponding on approach to SE. Aug/20/01) NE approach large ponding area - photo.-10-Mar-2008				
Approach Road General Rating			3	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SM, 1 Spans, Lengths(m): 6, 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			7	7		
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			N	N	Approaches settled @ ends of girders ~30mm.	
Bump (Y/N)		No				
Deck Drainage			4	4	Moisture/rust stains at underside of girders. Corrosion stain at G10 at East abutment.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	7	Superficial rust on rail end sections.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			8	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	5		
(Type : GALVANIZED)						
Sidewalk			8	8		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Girders			4	4	Staining @ grout keys. G10 with short diagonal crack & corrosion staining @ East abutment - photo. Icing between G9/G10 @ West abutment - photo. 10-Mar-2008 Paved over, stained in U/S at connector pockets. 9 girders plus 2 sidewalk girders.	
Last Complete Inspection Date		10-Mar-2008				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)						
(Number Of Girders : 11)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating			4	4		

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 : 5:5)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)	2 - 300 x 350mm caps & 150mm TT for each cap. These are under both sidewalks. 1 - 300 x 350 & 150mm under roadway. West subcap checked. East cap on south side, shrinkage cracks following growth rings. Cracks full width and depth at top cap SW corner.			
Last								
Now								
Bearing Seats/Caps/Corbels			4	4				
(Type : TREATED TIMBER)								
(Depth(mm) : 305)								
(Width(mm) : 305)								
Backwalls/Breastwalls			5	5				
Greatest Height (m)		3.00						
Wingwalls			X	X	Piles anchored except for end pile @ all corners. 4th pile from South on West side checked. 12 bearing piles/abutment, they replace the old piles still in place - photo.			
(Total Number of Bearing Piles : 12:12)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Piles			6	6				
Paint/Coating			X	X				
Abutment Stability			6	6				
Scour/Erosion			6	6				
Piers/Bents								
(Type :)								
(Total Number of Caps/Corbels :)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Bearing Seats/Caps/Corbels			X	X				
(Type :)								
(Depth(mm) :)								
(Width(mm) :)								
(Total Number of Bearing Piles :)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Pier Shaft/Piles			X	X				
Greatest Height (m)								
Bracing/Struts/Sheathing			X	X				
Nose Plate			X	X				
Paint/Coating			X	X				
(Colour Description :)								
(Colour Code :)								

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction :)				Opening acts as equalizer for both sides of lake.
(D/S Direction :)				
Alignment		7	7	HWM not visible.
				Lake constriction is heavily ripped. Approach roads supported by piles, no problems.
Bank Stability		X	X	
HWM (m below Top of Curb)				
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : 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	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2011						
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	45.8/54.9	Est. Repl. Yr	2029	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	Dave Lam		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	28-Sep-2014		Previous Inspection Date	10-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							