

Bridge Inspection									
Bridge File Number	73124 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1966/1966				Lot No.	1			
Bridge or Town Name	MULHURST BAY				Inspector Name	Owen Salava			
Located Over	PIPESTONE CREEK, 5.47, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	795:06 C1 9.621				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	08-Feb-2013			
Legal Land Location	NW SEC 7 TWP 47 RGE 26 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:48:19, 53:02:43				Data Entry Date	18-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA17				Review Date	13-Feb-2013			
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Chris Black			
AADT/Year	920 / 2011 (A)				Dept. Review Date	28-Mar-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Information.								

Utilities (Located at)									
Utility Attachments									
Telephone	Plowed West ditch.				Gas	Gas into 2 residences 150m North.			
Power	2 wires OH 15m East of c/l. OH power crosses road 160m North.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Intersection with Hwy 616, 200m North.				
Vertical Alignment			7	7					
Roadway Width (m)	9.000				Slight dip @ South approach caused by loss of fill through backwall.				
Approach Bump			4	6					
Guardrail (Y/N)	Yes				Minor dents/bends but functional.				
Guardrail			5	5	Connected to bridgerail.				
Length (m)	8.000								
Current Standard (Y/N)	No				Not thrie beam.				
Termination Type	Turn Down				Turn down end @ SW & NE mounted too high.				
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10				
Now	5.0	0.0	0.0	0.0	
Wearing Surface			6	6	5 medium cracks in asphalt between units.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			2	7	New curbs.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	7	Double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			2	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			5	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last			2	3	
Now	0	0	0	4	
Girders			2	3	G1,2,9,10 replaced with new cast girders. G7 wide longit. cracks & spalls in AZ at both legs. G5-8 spalls in AZ.
Last Complete Inspection Date		08-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 10)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			2	3	

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1800)							
(Total Number of Caps/Corbels : 1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	0			
Bearing Seats/Caps/Corbels				4	4	Caps stained and checked.	
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls				4	6	Breastwalls installed.	
Greatest Height (m)		3.00					
Wingwalls				3	3	SW wingwall missing - photos.	
(Total Number of Bearing Piles : 7:7)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	0			
Piles				6	6		
Paint/Coating				X	X		
Abutment Stability				5	5		
Scour/Erosion				3	5		
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				7	7	Pile struts.	
Nose Plate				X	X		
Paint/Coating				X	X		
(Colour Description :)							
(Colour Code :)							
Pier Stability				X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	Yes			Old piles in streambed - photo.
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)				Grass/debris to top of fence in channel u/s.
Drift (Y/N)	No			
Slope Protection		4	4	South headslope eroding.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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	2013	Confirm cap/pile condition, old.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Restore hslps, 20m3 pitrun.					
PLACE ADDITIONAL RIP RAP	2013	15m3 CL2 riprap.					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Recast girder flanges.					
OTHER ACTION	2013	Replace SW wingwall.					
OTHER ACTION	2013	Cut-off old piles at streambed.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/38.9	Sufficiency Rating (Last/Now) (%)	53.4/57.2	Est. Repl. Yr	2021	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments			
Maintenance Reviewed By				Date		Estimated Total	0
Proposed Long-Term Strategy	Bridge should be adequate until 2022. Continue on regular BIM Cycle. CB						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					
Next Inspection Date	08-May-2016	Previous Inspection Date	04-Mar-2010				
Inspection Cycle (Default) (months)	39						
Comment							