

Bridge Inspection									
Bridge File Number	78518 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1982/1982				Lot No.	2			
Bridge or Town Name	SUNDRE				Inspector Name	Owen Salava			
Located Over	BEARBERRY CREEK, 3.98, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22:20 C1 0.757				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Oct-2012			
Legal Land Location	SW SEC 4 TWP 33 RGE 5 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:39:47, 51:48:07				Data Entry Date	09-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA29				Review Date	30-Oct-2012			
Clear Roadway/Skew	10.7 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,270 / 2011 (A)				Dept. Review Date	13-Nov-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	8								
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	Too low, 200mm offline.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	3 wire 24.0m East.				Municipal				
Others	Environment shed @ NW.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Intersection to 584, 300m S. Climbing lane at N end, no passing.				
Vertical Alignment			6	6					
Roadway Width (m)	11.600				(Ponding @ NE shoulder. 2000/02/29). (Settled 25mm at NE & SW. 30Sep2009).				
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Missing 3 TT posts per corner & insufficient length.				
Guardrail			7	7					
Length (m)	26.000				Not thrie beam.				
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			N	5	150mm deep erosion at NE. Void under NE corner & 300mm deep gully - photo; also small gully @ NW beside w/w developing. Leaking onto A1.				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 1 Spans, Lengths(m): 38, 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	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	
Temperature (deg. C)		18			
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
Gap Size (mm)		Gap Location			
110		North - A2			
73		South - A1			
Deck Drainage			5	5	
Drains Clogged (Y/N)					
Curbs/Median			N	5	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	4	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 38, A-Ident Number:)				
Girders		4	4	Cracks 0.3 to 0.5mm wide x 200 to 300mm long U/S chamfer, typical all ends. Marked @ NW 3rd girder. Some cracks appear in top flange at girder ends. 1 chip out of bottom flange of girder at East side. Wide vertical cracks at end at fascia at NE, SE & SW.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 10)				
Diaphragms/Cross Frame		8	8	Intermediate are steel tripod.
Bearings		7	7	Pin bent 25mm towards stream @ NE.
Temperature (deg. C)	18			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		3	3	Lots of graffiti @ abutment & girder ends. Sealer degrading.
Abutment Stability		7	7	
Scour/Erosion		7	7	Small gully along NW wingwall.
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Meandering stream. Bridge acts as cattlepass, fences extended to abuts, cattle in creek.
(D/S Direction : E)				
Alignment		4	4	
Bank Stability		4	4	Erosion on outside of bend 100m. Upstream from bridge to bridge and at South bank 20m D/S. North bank D/S also eroded - monitor.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(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	2013	Replace bent rail.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Take off plates and get joint to seal, if not done. Replace missing cover plate bolts (5) & tighten all bolts. Recast joint paving lip @ South abutment SBL.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair erosion @ NE & NW corners & install ACP curb under guardrail @ North end, if not yet done.					
OTHER ACTION	2013	Seal abut elements.					
OTHER ACTION	2013	Reset HMs to standard.					
OTHER ACTION	2013	Raise approach to reduce joint impact.					
OTHER ACTION	2013	Inject girders cracks.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	53.7/53.8	Est. Repl. Yr	2045	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	(Bridge is on log haul route; advise Alvin Moroz if damage from heavy loads. 94/10/13). Marked ends of girder cracks at NW, slight 3mm increase in length from 1998; no change at inspections from 1998 on. Take u/s photos for monitoring erosion.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	Y						
Proposed Action	Seal Cracks by HMC in 2009. Chip seal in 2010.RS						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	19-Jul-2014		Previous Inspection Date	04-Feb-2011			

Inspection Cycle (Default) (months)	21
Comment	