

Bridge Inspection										
Bridge File Number	75075 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1986/1986				Lot No.	2				
Bridge or Town Name	SWAN HILLS				Inspector Name	Brian Pientsch				
Located Over	MORSE RIVER, 8.11.95.2, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	33:10 C1 38.871				Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	11-Feb-2013				
Legal Land Location	SW SEC 32 TWP 64 RGE 8 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:10:28, 54:34:46				Data Entry Date	10-Apr-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA06				Review Date	03-Apr-2013				
Clear Roadway/Skew	12.1 / 20 deg. (RHF)				Dept. Reviewer Name					
AADT/Year	850 / 2012 (A)				Dept. Review Date					
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	135									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS300				----> 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)	No								
Remarks	Not required.								
Other Sign Types	"Morse River"								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	West curb unit.				Gas				
Power	4 wires East r/w.				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve starts 70 m north.				
Vertical Alignment			7	7	Crest curve north.				
Roadway Width (m)	10.200								
Approach Bump			8	8					
Guardrail (Y/N)	Yes		Not to standard length.						
Guardrail			8	8					
Length (m)	38.000		Not FLEAT style end treatment.						
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SMC, 3 Spans, Lengths(m): 8-10-8, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.	
Last	5	0	0	0		
Now	30.0					
Wearing Surface			7	7		
(Material Type : ACP)						
(Thickness(mm) : 90)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			N	N	Paved over.	
Bump (Y/N)		No				
Deck Drainage			5	5	Very little grade on deck. Scour & silt deposit on headslope. Rock protection under West drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Outside fascia of curb has popouts from aggregate. Wide crack over S1P1 North side.	
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail			7	7	Missing nut 2nd post from SE.-11-May-2011 Snow covered 50% of grout pads deteriorating, constructed far too large.-11-May-2011	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			3	N		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			5	N		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	33	0	0	0		
Now						
Girders			5	5	Typical diagonal cracking at several locations, less than 500mm long. Cracking at fascia at poured joints over piers - cold joints. Corrosion staining. Continuous. Rust stains around drains.	
Last Complete Inspection Date		11-Feb-2011				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : 33)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating			5	5		

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)	
Last					
Now					
Bearing Seats/Caps/Corbels				8	8
(Type : CONCRETE)					
(Depth(mm) : 630)					
(Width(mm) : 550)					
Backwalls/Breastwalls				8	8
Greatest Height (m)		1.30			
Wingwalls				4	N
Delam top of SW wingwall, likely from wood cast in wall. Snow covered					
(Total Number of Bearing Piles : 0:0)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	99	0	0	0	
Now	99				
Piles				N	N
Paint/Coating				4	4
Coating peeling S2.					
Abutment Stability				6	6
Scour/Erosion				6	6
Piers/Bents					
(Type : PIER-COLUMN)					
Narrow vertical cracks over all pier piles.					
(Total Number of Caps/Corbels : 1:1)					
Wide crack over S1P1 North side.					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				Minor spalls on ends of caps.	
Now					
Bearing Seats/Caps/Corbels				6	6
(Type : CONCRETE)					
(Depth(mm) : 630)					
(Width(mm) : 550)					
(Total Number of Bearing Piles : 6:6)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Pier Shaft/Piles				7	7
Greatest Height (m)		3.30			
Bracing/Struts/Sheathing				7	7
Nose Plate				X	X
Paint/Coating				5	5
(Bottom portion of piles not painted, primer only. Starting to peel at ground. 21/Oct/2007)					
(Colour Description : YELLOW)					
(Colour Code : 505-101)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	Yes			(Old piles visible in channel. 19/June/2004)
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		4	N	SE bank eroding 10mLx1.5mW.-11-May-2011 Snow covered
HWM (m below Top of Curb)	2.6			
Drift (Y/N)	No			
Slope Protection		7	7	Abutment slopes are silting up.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	GR carried fwd 11-May-2011

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace missing A/B nut.+ grout pads.-carried over from 11-May-2011					
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	2013	Place 30m3 Class 2 riprap on SE bank.-carried over from 11-May-2011					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	57.1/57.0	Est. Repl. Yr	2032	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	Russel Vanderschaaf			
Next Inspection Date	11-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							