

Bridge Inspection							
Bridge File Number	70239 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1972/1972			Lot No.	2		
Bridge or Town Name	SMOKY LAKE			Inspector Name	Kris Bosters		
Located Over	WHITE EARTH CREEK, 6.45, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	855:20 C1 1.068			Assistant Name	Brian Cote		
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	11-Dec-2012		
Legal Land Location	NW SEC 27 TWP 59 RGE 17 W4M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-112:28:33, 54:07:53			Data Entry Date	16-Jan-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA07			Review Date	19-Dec-2012		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Paul Catt		
AADT/Year	660 / 2011 (A)			Dept. Review Date	18-Jan-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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)	No						
Remarks	Not required.						
Other Sign Types							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	Main line approx 20m West of c/l in water & muskeg on approaches.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	Telus in West ditch temporarily, only @ bridge.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		7	7	
Roadway Width (m)	9.000			
Approach Bump		5	5	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	61.000			
Current Standard (Y/N)	Yes			
Termination Type	Turned Down			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	100.0				
Wearing Surface			8	N	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	(Spalling on the edge of 6 girders. 96/01/08)
Deck Rideability			8	8	
Deck Joints			N	N	Snow covered
Bump (Y/N)		No			
Deck Drainage			7	N	Snow covered
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)					
Bridge Rail			7	7	Double layer.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			3	3	Missing 5 flexbeam to post bolts. 4 East side, 1 West side - photo.
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	11				
<b>Now</b>					
Girders			5	4	Vertical hairline cracks in most girders. Wide crack in two legs in AZ. G4SP3 sound concrete above top 1/2 of bars. Wide crack in 1 leg in AZ of G12SP1 with sound concrete above top 1/2 of bars.  Wide long in AZ 2reg S2G2,G10 with sound concrete above reinforcing bars.
Last Complete Inspection Date		11-Dec-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>5</b>	<b>4</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>Y</b> )						
(Extended Backwall Piles Spacing(mm) : <b>1850</b> )						
(Total Number of Caps/Corbels : <b>3:3</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>GALVANIZED STEEL</b> )						
(Depth(mm) : <b>375</b> )						
(Width(mm) : <b>350</b> )						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		1.20				
Wingwalls				5	5	East wings heaved ~300mm, NW wing leaning out slightly.
(Total Number of Bearing Piles : <b>8:8</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				4	5	2 split piles @ North abutment.-photo, may have been caused by previous split in pile before capitals were installed. Capitals have repaired split and removed splitting force.
Paint/Coating				7	7	
Abutment Stability				6	6	
Scour/Erosion				7	7	
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>3:3</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>GALVANIZED STEEL</b> )						
(Depth(mm) : <b>375</b> )						
(Width(mm) : <b>350</b> )						
(Total Number of Bearing Piles : <b>10:10</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				6	6	
Greatest Height (m)		2.30				
Bracing/Struts/Sheathing				4	4	East side span 2 strut bowed.
Nose Plate				X	X	
Paint/Coating				7	7	
(Colour Description : )						
(Colour Code : )						
Pier Stability				7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		6	6	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		8	8	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	Riprap on South slope only. Natural on North slope.
(Type : <b>RIP RAP; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install missing flexbeam to round post bolts.					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.5/65.2</b>	Est. Repl. Yr	2025	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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	11-Mar-2016		Previous Inspection Date	02-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							