

Bridge Inspection										
Bridge File Number	83077 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1986/1986				Lot No.	2				
Bridge or Town Name	HALKIRK				Inspector Name	Dave Lam				
Located Over	WATERCOURSE, WATERCRS-NI				Inspector Class	BR CLS A				
Located On	TRAIL-PED, ON 50000 FB				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	15-Jul-2011				
Legal Land Location	NW SEC 34 TWP 40 RGE 16 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:13:40, 52:29:18				Data Entry Date	22-Aug-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	UNDEFINED CMA				Review Date	28-Jul-2011				
Clear Roadway/Skew	1.3 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year					Dept. Review Date	29-Aug-2011				
Road Classification					Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:								----> 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	Trail into signs.									

Utilities (Located at)										
Utility Attachments	WATER UTILITIES-WATER LINE									
Telephone					Gas					
Power	Old power box attached to SE corner of E abut.				Municipal	WATERLINE TO FILL WADING POOL				
Others					Problem (Y/N)	No				
Remarks	Power & waterline is decommissioned; no longer in use.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Located inside Big Knife Provincial Park on trail to wading pool.				
Vertical Alignment			5	5					
Roadway Width (m)	1.500								
Approach Bump			5	5					
Guardrail (Y/N)			No						
Guardrail			X	X					
Length (m)									
Current Standard (Y/N)			No						
Termination Type									
Drainage			5	5					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 1 Spans, Lengths(m): 15.3, 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	0.0	0.0	0.0	0.0	
Wearing Surface				5	5
(Material Type : TREATED TIMBER)					
(Thickness(mm) : 75)					
Deck Top				5	5
Normal wear.					
Deck Rideability				5	5
Deck Joints				X	X
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage				5	5
No drains; drains btwn planks.					
Drains Clogged (Y/N)					
Curbs/Median				X	X
(Curb Type : Standard)					
Scaling (Percent Area)					
Bridge Rail				6	6
(Type : BRIDGE SOLID BEAM (EX. TIMBER RAILS))					
Bridge Rail Posts				5	5
(Type : UNTREATED TIMBER;UNTREATED TIMBER)					
Bridge Rail/Posts Coating				5	4
Peeling.					
(Type : PAINT)					
Sidewalk				X	X
Girder/Beam					
Cover Plate				X	X
2 - 256 X 256 I-BEAM					
Flange				7	7
1.005 meters apart					
Web				7	7
Stiffeners				X	X
1 welded splice at west end N. over beam.					
Splice				X	X
Weld				5	5
Diaphragms/Cross Frame				X	X

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 1 Spans, Lengths(m): 15.3, A-Ident Number:)				
Paint Condition		4	4	NO PAINT. Surface corrosion.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		X	X	
Temperature (deg. C)				
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)				
Functioning (Y/N)				
Deck Underside		X	5	
Stains (Percent Area)	30			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	4	Front of E abut concrete deteriorating (photo).
(Type : CONCRETE)				
Backwalls/Breastwalls		X	X	Timber sheathing/retaining wall at E abut is in disrepair.
Wingwalls		X	X	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		6	4	E abut impacted by flow & is slowly eroding.
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	
Debris (Y/N)				
Substructure General Rating		6	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Winding.
(D/S Direction : N)				
Alignment		6	5	
Bank Stability		X	X	
HWM (m below Top of Curb)	0.3			To bottom of deck. Heavy deadfall in d/s channel.
Drift (Y/N)	Yes			
Slope Protection		5	4	E hslp slowly eroding.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		5	X	
Adequacy of Opening		5	5	Small branches lodged on bottom flange of girder.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Armour E hslp with CL1/11 rock, extend 10m either side to minimize future erosion during high water events, and remove old timber sheathing.					
OTHER ACTION	2011	Remove decommissioned power box/line & waterline attached to bridge.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.0/50.0	Sufficiency Rating (Last/Now) (%)	51.6/73.4	Est. Repl. Yr	2022	Maint. Req'd. (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	Aime Theroux		Previous Assistant's Name				
Next Inspection Date	15-Apr-2016		Previous Inspection Date	26-Nov-2002			
Inspection Cycle (Default) (months)	57						

Comment	
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