

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01272025-3	
Date: 1/23/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-141 - KELLIGREWS RIVER BRIDGE - R			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	P1 - Poor		
		Bearing Seat:	F1 - Fair		
Comments:	- Original bearings heavily cracked and squeezed out, P1. - North bearing seat (expansion joint side) has various spalls and pockets of disintegration from leakage, P3. - Northeast abutment corner has light map cracking with efflorescence, F1 to P3. - Abutment faces covered in graffiti. - Abutment faces have widespread narrow to wide map cracks throughout, F1.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	P - Poor		
Comments:	- Expansion joint paved over and restricting movement. Assumed to be leaking from distresses seen below, P. - Beam end bearing blocks paved over on a previous rehabilitation. All repairs have wide cracks with isolated locations with efflorescent leachate, F1 to P3. - All concrete beams have hairline cracks every ~300mm around their perimeter. All cracks likely following stirrups and are not currently concerning, F1. - Deck soffit has hairline to narrow cracks with efflorescent and rust leachate within the first couple of meters from the bearing seat. Deck assumed to be cracked allowing water/salt migration, F1 to P3. Deck soffit otherwise in fair condition, F1.				
DECK					
Condition:	F1 - Fair	Curbs:	U - Uninspectable		
Hand Rail:	P3 - Poor	Roadway Condition:	F2 - Fair		
Approach Rail:	I - Inapplicable				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Asphalt has no observed defects, F2. - Structure rail has one length missing on the northeast corner, P. Rails other wise in fair condition, F1. - End blocks have varying width map cracks (hairline to wide) throughout, F1 to P3. - Curb tops not inspectable due to snow coverage.				
HYDROLOGY					
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem		
Water Depth:	Shallow m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Several areas of aggradation islands under structure between main channels. - No scour under north abutment within main channel.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2030	Replacement Year:	2050		
Antic. Rehab. Cost:	\$350,000	Replacement Cost:	\$3,000,000		
Recommendations:	- Install missing section of railing. - Replace deck drains. - Replace first 2-3 meters of the deck on each side. - Complete concrete repairs to beam end bearing blocks while the deck is removed. - Replace expansion joint with applicable end dam heights to ensure they are not paved over. - Waterproof & repave structure. - Various				

concrete repairs (crack injection and patching).

OBSERVATIONS

Overall Condition: F1 - Fair **Requires Further Inspection:** No

Additional Observations: - Structure in fair condition overall with P3 areas as noted above.

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.