

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02172025-2	
Date: 2/12/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-071 - NEW HARBOUR BRIDGE - R80			
SUBSTRUCTURE					
Condition:	P - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Entire west side of the structure covered in saltwater spray ice and is not inspectable. All comments in this report are of the east side only. - Both eastern wingwalls have hairline to narrow cracks throughout some of which have moderate efflorescent deposits, P3. - Abutment waterline concrete has very severe erosion, P3. - Southeast abutment corner at the waterline has substantial section loss and is undermined, P.				
SUPERSTRUCTURE					
Condition:	P - Poor	Expansion Joints:	F1 - Fair		
Comments:	- Entire west side of the structure covered in saltwater spray ice and is not inspectable. - Very limited inspection of double tees and deck soffit due to severe riprap icing conditions. Double tee & soffit inspection completed on the northeast structure corner only. - One interior double tee has very severe spalling and disintegration with ruptured pre-stressing cables, P. Remainder in fair condition. - Efflorescence and rust leachate visible between double tee pre-cast sections indicating the cast in place deck is cracked and no longer watertight, P1 to P3. - East deck fascia/curb exterior has old concrete patches scattered throughout with hairline cracks. Unpatched areas have moderate scaling and some areas with narrow cracks with very light efflorescence, F1. - Expansion joints/gaps paved over. No dampness visible on bearing seats visible from northeast structure corner.				
DECK					
Condition:	P3 - Poor	Curbs:	F1 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	F2 - Fair				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Curbs largely covered in snow and not inspectable. Some minor spalls visible on curb/sidewalk interior corners, F1. - Entire west side of the structure covered in saltwater spray ice. Not inspectable. - Numerous hazard markers missing. - Guiderail structures in fair condition with no observed defects, F2. - Steel structure rail in fair condition with no observed defects, F2. - Asphalt surface has no observed defects, F2.				
HYDROLOGY					
Water Velocity:	< 1 m/s	Ice Problem:	K - Known Problem		
Water Depth:	> 2 m	Scour Problem:	K - Known Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Area is tidal and scour susceptible. Scour observed on southeast structure corner. - Extreme icing witnessed on the entire west side of the structure. This is caused from saltwater spray.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2026	Replacement Year:	2045		
Antic. Rehab. Cost:	\$350,000	Replacement Cost:	\$3,000,000		

Recommendations:	- Recommend to a complete diving inspection within a year. - Replace hazard markers. - Repair double tees, abutment waterline concrete, southeast abutment corner scour, cast in place deck. - Waterproof & repave. - If a rehabilitation is not completed, the replacement year will be sooner than the estimated timeline.		
OBSERVATIONS			
Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	- P southeast abutment corner and ruptured double tee. F1 remainder.		

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