

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B11182024-6	
Date: 11/11/2024		Inspected By: M Button / T Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-270 - LEES BROOK BRIDGE - R			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Original structure extended approx. 2.0 m upstream and 4.0 m downstream. Assumed condition of submerged reinforced concrete frame leg footings. South wingwalls have light cracking and efflorescence. North wingwalls light-hairline map cracking and scaling throughout, F1. Extension abutments in fair condition with light cracking throughout. Original abutments have light cracking throughout with pockets of honeycombs from original construction. Light to moderate erosion of abutment concrete along the waterline. Construction joints at both extensions coated with efflorescent deposits from leachate above. Light scour bottom of frame leg northwest corner.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	Deck soffit on structure extensions in fair condition with some light cracking in isolated locations. Deck soffit at mid-point of original structure in fair condition with light map cracking and efflorescence. South deck soffit construction joint disintegrated, forming a small cavity in the deck. North deck soffit construction joint leaking. Original deck soffit adjacent to the extension construction joints have severe map cracking and efflorescence extending roughly 1m towards the middle of the original structure.				
DECK					
Condition:	P3 - Poor	Curbs:	I - Inapplicable		
Hand Rail:	P1 - Poor	Roadway Condition:	F1 - Fair		
Approach Rail:	P3 - Poor				
Comments:	Guiderail on north side of structure only with various dents & bends, P3. Hazard markers only on this side. Concrete rail too low for modern traffic. Rails appear to original and are cracked/disintegrated/spalled throughout exposing reinforcement, P1. Asphalt surface around structure in fair condition. Deck suspected to be cracked/leaking due to distress below.				
HYDROLOGY					
Water Velocity:	Moderate m/s	Ice Problem:	N - No Problem		
Water Depth:	0.5 m	Scour Problem:	K - Known Problem		
Waterway:	01 - Adequate	Debris Problem:	K - Known Problem		
Comments:	Monitor scour at bottom of northwest frame leg. Tree branches and garbage obstructing inlet of structure.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:	2030		
Antic. Rehab. Cost:	\$N/A	Replacement Cost:	\$\$2,000,000		
Recommendations:	Replace structure with culverts.				
OBSERVATIONS					
Overall Condition:	P3 - Poor	Requires Further Inspection:	No		
Additional Observations:	Structure rail, both extension joints & deck soffit near the joints in poor condition P3.				