

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01282025-5	
Date: 1/24/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-006 - PORTUGAL COVE BROOK BRIDGE - R			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Both the north and south wingwalls have light scaling throughout with isolated pockets of efflorescence, F1. - Both frame legs have moderate concrete erosion to the footing/frame leg construction joint with light erosion to the frame leg face concrete at the waterline. There are also isolated areas with cracks and efflorescent deposits, F1.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- Construction joint between the deck and curb opened and visibly leaking on the south face. Efflorescent deposits visible in some areas. - Both the south and north fascia's are generally in fair condition with isolated pockets of cracking with efflorescent leachate, F1. - Deck drains are either corroded off near the deck elevation or have very severe corrosion with perforations. - Deck soffit has regular spaced groups of rust staining "Dots", isolated areas of medium to wide longitudinal cracks, delaminations at the south end of the deck fascia, cracks with moderate to severe efflorescent materials within the first 2-3m of the frame legs, especially at the west frame leg.				
DECK					
Condition:	P3 - Poor	Curbs:	F1 - Fair		
Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	P - Poor				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - All posts rotten. Many posts missing. Rail sections missing bolts. Approach rail, P. - Structure rail is 3 rail aluminum system. Minor dents and scrapes throughout, F1. - End blocks have light scaling throughout with isolated spalls and rust stains, F1. - Curbs have light scaling throughout with narrow map cracks between posts, F1. - Asphalt has medium transverse cracks over the backs of the frame legs and is otherwise in good condition, F2.				
HYDROLOGY					
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem		
Water Depth:	0.3 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Pond upstream, river flows to ocean on the downstream side.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2030	Replacement Year:	2050		
Antic. Rehab. Cost:	\$300,000	Replacement Cost:	\$4,000,000		
Recommendations:	- Concrete deck overlay, waterproof and repave - New end blocks? - Replace all guiderail complete with hazard markers - Local concrete repairs and crack injections				

OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations: - Deck P3. Guiderail P. Structure needs a rehabilitation.			

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