

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B05312022-4	
Date: 5/16/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-006 - PORTUGAL COVE BROOK BRIDGE - R			
SUBSTRUCTURE					
Condition:		F2 - Fair	Bearings:		I - Inapplicable
			Bearing Seat:		I - Inapplicable
Comments:		Assumed condition of buried/submerged reinforced concrete frame leg footings.			
SUPERSTRUCTURE					
Condition:		F1 - Fair	Expansion Joints:		I - Inapplicable
Comments:		Medium/severe erosion along bottom of east/west frame leg faces near construction joints. Narrow/medium vertical cracks with light/medium efflorescence deposits in faces of frame legs that continue up into deck soffit. Wide vertical crack in NW end block. Narrow vertical cracks with light efflorescence to SE wing wall.			
DECK					
Condition:		F1 - Fair	Curbs:		F2 - Fair
Hand Rail:		F1 - Fair	Roadway Condition:		F2 - Fair
Approach Rail:		P1 - Poor			
Comments:		Numerous narrow longitudinal/transverse cracks in deck soffit with light efflorescence. Medium longitudinal crack in deck soffit leaking heavy efflorescence onto east frame leg face. Light delamination/spall with exposed rebar to downstream cantilever soffit. Narrow map cracks top of curb downstream. Medium vertical/transverse cracks with light efflorescence deposits in curb fascia's. Narrow/medium vertical cracks with light efflorescence deposits to deck fascia's. Severe corrosion to all deck drain downspouts with SE downspout broken off. Light abrasion to aluminum handrail. No hazard markers. Approach/exit rail posts missing and remainder have severe decay.			
HYDROLOGY					
Water Velocity:		0.3 m/s	Ice Problem:		N - No Problem
Water Depth:		0.6 m	Scour Problem:		N - No Problem
Waterway:		01 - Adequate	Debris Problem:		N - No Problem
Comments:		All four corners of structure have light erosion with rip rap migrating into channel.			
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		2026	Replacement Year:		2035
Antic. Rehab. Cost:		\$80,000.00	Replacement Cost:		\$1,200,000.00
Recommendations:		Install new deck drains, repair concrete defects, install new approach/exit rail with hazard markers, install new rip rap.			
OBSERVATIONS					
Overall Condition:		F1 - Fair	Requires Further Inspection:		No
Additional Observations:		P1 - Approach/exit rail and deck drain downspouts, F1 - Remainder			