

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01272025-4	
Date: 1/23/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-359 - PETTY HARBOUR BRIDGE NO.2 - R11			
SUBSTRUCTURE					
Condition:	F2 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Assumed condition of buried reinforced concrete frame leg footings. Original structure extended approx. 2.5m upstream and downstream. Light erosion with narrow vertical cracks to interior faces of frame legs.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	Very severe spalling, severe efflorescence deposits with medium corrosion to exposed reinforcement at construction joint in frame legs on upstream extension. Narrow vertical/map cracks and light spalling/delamination to leg haunches in original structure. F2 (extension) F1 (original structure) P3 (construction joint).				
DECK					
Condition:	P3 - Poor	Curbs:	F2 - Fair		
Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	I - Inapplicable				
Comments:	Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Very severe spalling with severe corrosion to exposed reinforcement in deck soffit at construction joint upstream. Wide longitudinal crack in soffit downstream. Medium horizontal cracks with medium scaling to upstream curb fascia. Narrow map cracking in downstream fascia. East/west steel handrails are deformed, tilting away from roadway and have light surface corrosion to welds. Narrow longitudinal/map cracking with light efflorescence to original soffit. Severe erosion undermining asphalt and loss of embankment material at SW corner. Medium erosion to NE corner of structure. No hazard markers.				
HYDROLOGY					
Water Velocity:	0 m/s	Ice Problem:	N - No Problem		
Water Depth:	0 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	Debris/garbage accumulating at inlet with low effect on stream flow. Medium bulging and shifting of gabion basket along riverbank.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2026	Replacement Year:	2035		
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0		
Recommendations:	Repair deteriorated concrete and corrosion to reinforcement at upstream construction joint. Install bridge deck waterproofing and new asphalt. Install new hazard markers. Repair steel handrail. Repair erosion to NE/NW corners. Remove debris from stream.				
OBSERVATIONS					

Overall Condition:	P3 - Poor	Requires Further Inspection:	Yes
Additional Observations:	Leaking construction joint upstream causing structure to deteriorate rapidly. Construction Joint P3. Original Structure F1. Extensions F2. 600mm CSP at NW corner (inlet). 300mm plastic pipe in SW gabion (outlet)		

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