



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT
B08152024-2**

Date: 8/15/2024

Inspected By: L. Christensen/D.Burns

Category: Office - Bridge Office

BRIDGE INFORMATION

Site:	2-046 - SANDY HARBOUR RIVER BRIDGE			Overall Length:	44 m
Route:	210			Overall Width:	14 m
Year Built:	1970	Est: No		Roadway Width:	12.6 m
Year Last Rehab.:	1998	Est: No		Sidewalk Width:	0 m
Region:	CENTRAL EAST			Clearance to R.D. or N.W.L.:	3.6 m
Jurisdiction:	Provincial			Max Depth of N.W.L.:	2 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab			Spans:	
Purpose of Structure:	03 - Over Navigable Waters				
Type of Handrail:	04 - Steel Rail			<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt			1	12
Alignment Vertical:	01 - Good			2	12
Alignment Horizontal:	01 - Good			3	12
Restrictions:	No			4	0
				5	0
				6	0

BRIDGE PHOTOS





SUBSTRUCTURE

Condition: P3 - Poor

Bearings: U - Uninspectable

Bearing Seat: U - Uninspectable

Comments: Mild erosion/scour, large horizontal cracks and severe efflorescence at southern abutment. Large vertical crack caused by water leaking through deck under girder footprint on both piers. Large vertical crack between older and newer concrete on all abutments and piers. Medium horizontal and vertical cracks on northern abutment with concrete deterioration and efflorescence on older side. Crack mapping on all 4 wing walls.

SUPERSTRUCTURE

Condition: P - Poor

Expansion Joints: P - Poor

Comments: Holes/gaps in asphalt expansion joints (perpendicular) and in longitudinal joint between newer and older structures are causing leaking and severe concrete degradation to girders. Bottom section of double tee has degraded and the bottom strands are either exposed or broken - all 3 spans. Leaking longitudinal seam in span 3 has degraded the older girder extensively. Two girders in poor condition next to each other in third span. Low cover pop outs on many of the double tee girders. 1 expansion joint paved over and leaking, 1 asphalt plug joint is

missing multiple sections and is leaking, longitudinal joint between structures is leaking and you can see daylight from below.			
DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	Rough riding surface caused by poor expansion joints and multiple pot holes in the southern approach.		
HYDROLOGY			
Water Velocity:	0 m/s	Ice Problem:	N - No Problem
Water Depth:	0 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	2026
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Replacement necessary in the next 2-3 years. Replacement likely to coincide with Long Pond Brook bridge.		
OBSERVATIONS			
Overall Condition:	P - Poor	Requires Further Inspection:	Yes
Additional Observations:	Continue to monitor girder deterioration. Worst span is span 3. All expansion joints seem to be leaking substantially.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.