

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12042023-1	
Date: 11/3/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	4-149 - BURNT POND BROOK BRIDGE		
Route:		Overall Length:	46.7 m
Year Built:	1978	Est: No	Overall Width: 10.5 m
Year Last Rehab.:		Est: No	Roadway Width: 9.3 m
Region:	WEST COAST/NORTHERN	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4.3 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	01 - Concrete	Span No.:	Length
Alignment Vertical:	01 - Good	1	31.1
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- North abutment and wingwalls in fair condition with isolated cracking. On the northwest corner of the ballast wall there is very small area of spalling. Footing has moderate erosion or severe scaling throughout. Bearings and bearing seat too high for inspection but assumed to be in fair condition based on evidence in the area. - South abutment has mildew and mud staining throughout surface likely due to leaking expansion joints. Southwest corner of the ballast wall has a medium sized spall with surrounding areas also appearing delaminated. At the mid-point of the abutment wall, there is a wide vertical crack extending from the footing to the bearing seat. Bearings and bearing seat too high for inspection but assumed to be in fair condition based on evidence in the area. South abutment wingwalls generally in fair condition with areas of hairline map cracking.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
	- Expansion joints paved over and suspected to be damaged and leaking, P3. - Diaphragms have small spalls		

Comments: due to low cover on reinforcement, F1. - Deck soffit overall in fair condition with isolated areas of light spalling due to low cover. There is an area over the north abutment which has localized unconsolidated concrete. - Girders in fair condition with no observed defects.

DECK

Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	P1 - Poor		

Comments: - Small potholes visible on exposed concrete deck. Evidence of light wear to concrete, F1. - Approach asphalt has severe map cracking throughout, Local repairs completed near approaches, P3. - Guiderail and posts in poor condition with cracked, and rotten posts throughout. Flex rail damaged in numerous areas with buried ends uprooted, P1. - Structure posts have numerous permanent deformations. Rails detached and damaged in numerous locations. - Curbs have light scaling through with isolated spalls exposing reinforcement. Light to moderate spalling around expansion gaps exposing rebar.

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: - No riprap in front of abutment footings. Wingwall riprap has some progression to the stream below.

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2024	Replacement Year:	2060
Antic. Rehab. Cost:	\$150,000	Replacement Cost:	\$4,500,000

Recommendations: - Brush clearing needed around approaches. Repave roadway on both sides of the bridge. Waterproof and pave the bridge deck. Replace guiderail, structure rail and expansion joints. Clean bridge deck. Consider converting to semi-integral

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
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Additional Observations: - Bridge overall in fair condition with several P1 & P3 areas indicated above.

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS