

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B08172023-2</b>	
<b>Date:</b> 11/3/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-148 - DRY POND BROOK BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	42.8 m
<b>Year Built:</b>	1978	<b>Est: No</b>	<b>Overall Width:</b> 10.9 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 9.9 m
<b>Region:</b>	WEST COAST/NORTHERN	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	4.5 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0.5 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
<b>Alignment Vertical:</b>	01 - Good	1	31.2
<b>Alignment Horizontal:</b>	01 - Good	2	0
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F1 - Fair
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	- North abutment has light cracking throughout. There is medium disintegration in local areas and some rust staining, F1. - North wing walls are in fair condition. There is narrow map crack with efflorescence on the exterior corners. There is light disintegration throughout. One wing wall has medium disintegration on the exterior corner and an eroded slope, F1. - South abutment has light cracking throughout. There is a cold joint running along the abutment face with efflorescence leaching out. The base of the abutment has light disintegration along its span, F1. - South wing wall slopes are eroded, exposing the base of the wall. There is light disintegration throughout. The exterior corners have light map cracking with efflorescence. Each wing wall has a wide crack from the bearing seat to the end of the wall, suspected to be a settlement crack. There is medium disintegration around one of the wide cracks, P3. - Bearings are in overall fair condition. There is narrow cracking throughout, F1. - Bearing seats are in overall fair condition. There is light disintegration throughout. There is severe disintegration on the South bearing seat, F1 to P3.		
<b>SUPERSTRUCTURE</b>			

<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	- Girders have light disintegration in areas along the bottom edges. There are small spalls in local areas on the under surface of some girder. These spalls are exposing rebar with severe corrosion. There is severe efflorescence leaching onto the girders, staining the concrete surface. The exterior girders have areas of light honeycombing on the bottom surfaces, F1. - Diaphragms are in overall fair condition. There are small spalls in local areas. The spalls are exposing rebar with medium corrosion. One of the diaphragms by the North abutment has light honeycombing on the bottom surface. Some of the diaphragms have narrow to medium cracks throughout, F1. - Deck underside has light disintegration throughout. Areas of the concrete surface are stained from efflorescence, F1. - Deck soffit has medium to severe disintegration on the side surfaces. The disintegrated surface is exposing severely corroded reinforcement and handrail anchor bolts. There are medium cracks in local areas along the side surfaces, P3. - Expansion joints are paved over. There is a small spall on the asphalt deck, exposing one of the expansion joints. The exposed joint has medium corrosion. Suspected to be leaking, P3.		

**DECK**

<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	I - Inapplicable
<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	P3 - Poor
<b>Approach Rail:</b>	P3 - Poor		
<b>Comments:</b>	- Deck asphalt has light to medium potholes throughout. The asphalt covering the expansion joints has medium map cracking. There is a medium spall on the asphalt above an expansion joint, exposing the joint. There is light to medium disintegration on the asphalt used to rehab previous potholes, P3. - Curbs – N/A - End blocks – N/A - Handrails – All four hazard marker are present. One of the posts is compromised from damage to the deck cantilever. A number of the anchor bolts have medium corrosion. One of the rails is bent at the North end, F1. - Guiderails – Two of the guiderails are missing. The guiderails are surrounded with vegetation. The South guiderail has three wide cracks in the rail, P3.		

**HYDROLOGY**

<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>			

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2028	<b>Replacement Year:</b>	2054
<b>Antic. Rehab. Cost:</b>	\$200000	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	- Recommended to deck edges and expansion joints. Recommended to add end blocks, curbs, and missing guiderails.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- There are no end blocks and two ends of the approach slabs have no guiderails. - There is a large amount of sand buildup on the sides of deck and shoulders of the road. - Bridge is in overall fair condition, F1 with P3 areas.		

**LEGEND:**

**Condition Definitions:**

- 1 - \*Good - [discontinued code].
- 2 - \*Fair - [discontinued code].
- 3 - \*Poor - [discontinued code].
- 4 - \*Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

**Problem Definitions:**

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

**Category Definitions:**

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

**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**