



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT  
B08012024-1**

Date: 8/1/2024

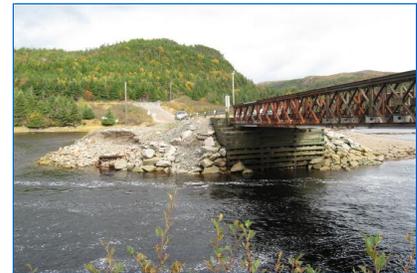
Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-081 - RED HARBOUR BAILEY BRIDGE				
Route:	210-22	Overall Length:	30 m		
Year Built:	2004	Est: No	Overall Width:	6 m	
Year Last Rehab.:		Est: No	Roadway Width:	3.3 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2 m		
Type of Structure:	09 - Bailey Bridge	Max Depth of N.W.L.:	3 m		
Purpose of Structure:	03 - Over Navigable Waters	Spans:			
Type of Handrail:	06 - None	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	03 - Timber	1	27.4	4	0
Alignment Vertical:	01 - Good	2	0	5	0
Alignment Horizontal:	02 - Adequate	3	0	6	0
Restrictions:	Yes				
Describe Restrictions:	Maximum 20t load limit. One lane only.				

**BRIDGE PHOTOS**





**SUBSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	Timber abutments and bearing seats. Heavy sediment compiled on abutments and near bearings. Open cribbing abutments with some rip rap washing away into streambed. Top of abutment 2 timbers are slightly tipped towards streambed, and some starting to crack.		

**SUPERSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	9 panel bailey bridge, assembled from used parts. Some minor dents in various panels along structure. Roughly 15-20 cotter pins missing and some are heavily rusted. Entire structure is rusted. Cross members rods below the timber deck are bent near abutment 2.		

**DECK**

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	50mm timber deck with 50mm wearing surface. Raceway deteriorating with minor cracking/holes in timbers. Approach rail has minor damage and denting. Installed snow fence material is now missing, and zip ties are littering several panels along the bridge.		

**HYDROLOGY**

<b>Water Velocity:</b>	Tidal m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Tidal m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	K - Known Problem
<b>Comments:</b>	Rip rap sliding into waterway.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>	
<b>Antic. Rehab. Cost:</b>	\$TBD	<b>Replacement Cost:</b>	\$TBD
<b>Recommendations:</b>	Implement "Narrow Bridge" sign on approaches, clean sand and sediment from abutments/bearing seats, replace cotter pins, repair rip rap, install new snow fence material.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>			