

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B11252021-3	
Date: 10/27/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-076 - ST. MARY'S RIVER BAILEY BRIDGE		
Route:		Overall Length:	0 m
Year Built:	2002	Est: No	Overall Width: 9.9 m
Year Last Rehab.:		Est: No	Roadway Width: 6.3 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	09 - Bailey Bridge	Max Depth of N.W.L.:	2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	04 - Steel Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	03 - Timber	1	0
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	U - Uninspectable
		Bearing Seat:	U - Uninspectable
Comments:	- East abutment and wingwalls in good condition, limited access for inspection. - West abutment has light map cracking to the back wall and on both wingwalls. Both bearing seats have extreme gravel build up from the roadway. Both footings poured on bedrock. Suspect scour under the east abutment and the northwest corner of the west abutment footing due to currents and lack of rip-rap protection.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Stringers/girders(horizontal bracing) have heavy gravel build up on flanges. Most panel sections do not have galvanized pins and have moderate corrosion. Otherwise the members/connections are in fair condition. - No expansion joints.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Gravel approaches in fair condition (condition will change daily). - Small depressions/holes in back wall abutment concrete and the timber wearing surface. Main 6x4 timbers, and timber curbs in good condition. Wearing surface timbers in fair condition with some wear. - Approach/exit guiderail have minor dents. - No end blocks or extra energy dampening posts prior to panel trusses. All hazard markers in place.		
HYDROLOGY			
Water Velocity:	1.5 m/s	Ice Problem:	P - Possible Problem
Water Depth:	2 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Suspect scour as indicated in the substructure section. Possible diving inspection required.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2024	Replacement Year:	2060
Antic. Rehab. Cost:	\$25,000	Replacement Cost:	\$1,000,000
Recommendations:	- Remove extreme gravel build up from bearing seats and members under the deck. Suggest the use of a blow pipe through deck timber 6x4 member gaps. Install new rip-rap on the southeast corner. Install extra guiderail posts prior to exterior panels if deemed necessary.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- Deflection/sagging under self-weight observed. - Hazards, light traffic, working around fast flowing deep water and moderate to steep slopes. - Inspection limited to binoculars under the west side of the bridge, a visual of the whole south side from a pedestrian bridge and wingwall areas only on the east.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
Category Definitions:			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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			