

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08302021-1	
Date: 8/25/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-009 - GUNRIDGE ROAD BRIDGE (BAY BULLS)		
Route:		Overall Length:	9.2 m
Year Built:	1955	Est: Yes	Overall Width: 8.1 m
Year Last Rehab.:		Est: No	Roadway Width: 6.9 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.6 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	02 - Adequate	1	4
Alignment Horizontal:	02 - Adequate	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- No footings, frame legs poured on bedrock. - Upstream extension of deck bearing on the northwest wingwall. Horizontal construction joints in the northwest wingwall and west frame legs opening up with efflorescent deposits. - Both upstream wingwalls and both upstream extension frame legs have light to medium scour, P3. Recommend trimming concrete on next rehab. - Construction joint of upstream extension starting to open up with leakage. Downstream extension has medium erosion to concrete at the water level but in great condition above this area. There are beams running through both frame legs and highly corroded but are structurally independent.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Upstream extension on the underside of the deck has moderate honeycombing with garbage deposits from construction, P3. Repair on next rehab. Remainder of bottom deck in good condition. Joints between extensions leaking.		

DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	P3 - Poor		
Comments:	- Some settlement on west approach, asphalt overall F1. - Southwest approach rail damaged from an impact. Jersey barriers in place on southeast side, needs rail. No approach/exit rail on northwest due to adjacent property. No end blocks. Heavy growth between asphalt and curbs. Structure handrails F1, P3 on the southwest corner due to more advanced deterioration. - No hazard markers.		

HYDROLOGY			
Water Velocity:	0.6 m/s	Ice Problem:	N - No Problem
Water Depth:	0.4 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Both upstream wingwalls and both upstream extension frame legs have light to medium scour. Recommend trimming concrete on next rehab.		

REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2025	Replacement Year:	2035
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$1000000
Recommendations:	- Repair scoured areas. Repair handrail, approach exit rails. Trim back/remove vegetation/bamboo on structure corners. Install rip-rap on upstream wingwalls. Chip out and patch upstream extension honeycombs on the underside of deck.		

OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Difficult to get below structure. Suggest trimming back vegetation on rehab. Could not access downstream side of structure. P3 scoured areas, F1 remainder.		

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:				
<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