

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B11152021-3	
Date: 10/19/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-209 - WESTERN POND BROOK BRIDGE		
Route:		Overall Length:	7.4 m
Year Built:	1970	Est: No	Overall Width: 7.2 m
Year Last Rehab.:		Est: No	Roadway Width: 4.4 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.5 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.4 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	6.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	F1 - Fair
Comments:	- Mild concrete erosion at the waterline level on both frame legs. Narrow horizontal vertical cracking throughout both frame legs. Frame legs generally in fair condition, F1. - Several medium-wide cracks with light efflorescence deposits & severe delamination/spalling to many areas on the four wing walls. - Bearing seat/frame leg transition to deck joint in fair condition.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair
Comments:	- Wide transverse cracks at expansion joints locations, if there are any. No visible leakage seen on frame legs below, F1. - Eastern third of the bottom of the deck has medium map cracking with medium efflorescence, F1 for now. Remainder of bottom of deck, F2. - South fascia is disintegrated on the southeast corner, and has undermined the handrail, P3. North fascia in fair condition with mild disintegration on the northeast corner, F1.		

DECK			
Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	I - Inapplicable		
Comments:	- No curbs. Shoulder of the road on the bridge has heavy vegetation. - Asphalt has approach settlement on both sides and has pooling water. At the expansion joint locations, there are large wide transverse cracks, P3. - No end blocks, hazard markers or approach/exit guiderail. - Handrail in fair condition with the exception of the northwest corner, area made of 2x6 planks and post, P1.		
HYDROLOGY			
Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.2 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:	- Heavy vegetation growth around stream, rip-rap out of position but the flow rate is low.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2024	Replacement Year:	2030
Antic. Rehab. Cost:	\$30,000	Replacement Cost:	\$500,000
Recommendations:	- Replace handrail, rehab the exterior fascia's, repair approaches/repave and trim back vegetation. Consider replacement with a multi-plate or culvert.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Hazards, limited traffic, navigating heavy vegetation.		
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:			
Mant. - 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			