

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B06192019-8</b>	
<b>Date:</b> 6/19/2019	<b>Inspected By:</b> Hunt R	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-147 - MAKINSONS BRIDGE, GOULDS RIVER		
<b>Route:</b>	71	<b>Overall Length:</b>	28.1 m
<b>Year Built:</b>	1985	<b>Est:</b> No	<b>Overall Width:</b> 10 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 8.1 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	1 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2.2 m
<b>Type of Structure:</b>	04 - Rigid Frame	<b>Max Depth of N.W.L.:</b>	1 m
<b>Purpose of Structure:</b>	04 - Over Non-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	1	20.1
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	01 - Good	3	0
<b>Restrictions:</b>	No	4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	I - Inapplicable
		<b>Bearing Seat:</b>	I - Inapplicable
<b>Comments:</b>	Assumed condition of submerged frame leg footings.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	Narrow vertical cracks in frame legs with light efflor deposits. Medium vertical horizontal cracks with light efflor deposits. Medium vertical angular cracks with efflor deposits to faces of frame legs.		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair

<b>Approach Rail:</b>	F1 - Fair
<b>Comments:</b>	Medium longitudinal cracks with heavy efflor deposits to deck soffit and facias. No hazard markers at end blocks. Medium horizontal vertical transverse cracks in tops of facias at both curbs. Narrow transverse cracks with light efflor deposits in deck soffit. Medium alligator cracks in all four end blocks. Medium transverse longitudinal cracks with potholes in asphalt surface.

**HYDROLOGY**

<b>Water Velocity:</b>	0.4 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.5 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Moderate slope erosion on corners of structure.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2022	<b>Replacement Year:</b>	2035
<b>Antic. Rehab. Cost:</b>	\$150	<b>Replacement Cost:</b>	\$1000
<b>Recommendations:</b>	Install new guiderail and hazard markers. Resurface deck and approaches. Repair concrete defects and fix erosion on corners of surface		

**OBSERVATIONS**

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

<b>LEGEND:</b>		<b>Problem Definitions:</b>		<b>Category Definitions:</b>	
<b>Condition Definitions:</b>		<b>N - No Problem.</b>		<b>Maint. - Maintenance.</b>	
1 - *Good - [discontinued code].	F2 - Fair.	<b>P - Possible Problem.</b>		<b>Eng. - Engineering.</b>	
2 - *Fair - [discontinued code].	F1 - Fair.	<b>K - Known Problem.</b>		<b>Office - Bridge Office.</b>	
3 - *Poor - [discontinued code].	P3 - Poor.	<b>NA - Not Applicable.</b>			
4 - *Unsafe - [discontinued code].	P1 - Poor.				
G - Good.	P - Poor.				

**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 B, F, P, or C  
 • Any evidence of known ice, scour, debris, waterway problems

**INSPECTION PHOTOS**