

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B09162022-4</b>	
<b>Date:</b> 7/29/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-104 - CELLARs BROOK BRIDGE		
<b>Route:</b>	431	<b>Overall Length:</b>	29.8 m
<b>Year Built:</b>	1978	<b>Est: Yes</b>	<b>Overall Width:</b> 11.3 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 10.6 m
<b>Region:</b>	WEST COAST/NORTHERN		<b>Sidewalk Width:</b> 0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	4 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0.4 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters		
<b>Type of Handrail:</b>	01 - Aluminum Rail	<b>Spans:</b>	
<b>Roadway Surface:</b>	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
<b>Alignment Vertical:</b>	01 - Good	1	20.8
<b>Alignment Horizontal:</b>	02 - Adequate	2	0
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	P1 - Poor
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	- Both abutment faces in fair condition. Ballast wall corners on the downstream side have various delaminated areas and are about to spall or are spalled. - Only exterior bearings visible on each abutment due to height. Bearings are cracked and deformed, P3 to P1. This is the assumed condition of remaining bearings. - Only exterior bearing seats visible on each abutment due to height. Seat has light cracking. - Downstream wingwalls have efflorescent leachate below the bearing seat. Upstream wingwalls have light map cracking in various locations.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	- Girders in fair condition. - Deck soffit in fair condition overall. Overhang on downstream side (under curb), has numerous spalls exposing reinforcement, P3. - Expansion joints paved over. Expansion joint steel visible on downstream side through curb.		

<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	P3 - Poor
<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	P3 - Poor		
<b>Comments:</b>	- Asphalt in fair condition. - Curb tops covered in gravels. Downstream curb exterior has severe spalling and disintegration along the full length exposing reinforcement with light corrosion, P3. - Structure rail end caps missing with various dents and scrapes, F1. - Guiderail on northeast corner only. Guiderail not regulation. No hazard markers on structure.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0.3 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.3 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	02 - InAdequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Area behind east abutment has washout out in the past. Poor river alignment. - New riprap around structure.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2025	<b>Replacement Year:</b>	2045
<b>Antic. Rehab. Cost:</b>	\$125,000	<b>Replacement Cost:</b>	\$3,000,000
<b>Recommendations:</b>	- Installed end blocks. - Replace and install guiderail. - Install hazard markers. - Replace downstream curb/deck soffit. - Potentially replace expansion joints. - Clean bridge.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Deck and girders in fair condition. Curb and bearings need replacement.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
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.		
<b>Category Definitions:</b>			
Mant. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			