

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12122022-1	
Date: 10/18/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-020 - MUD LAKE BRIDGE		
Route:		Overall Length:	43.5 m
Year Built:	1973	Est: Yes	Overall Width: 4.7 m
Year Last Rehab.:		Est: No	Roadway Width: 28.5 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.7 m
Type of Structure:	09 - Bailey Bridge	Max Depth of N.W.L.:	2.9 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	06 - None	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	03 - Timber	1	43.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	P3 - Poor
Comments:	- West abutment creosote original cribbing in fair condition with various checks throughout, no visible signs of rot. Top cribbing supporting the bearing timbers has large splits with section loss where the steel spikes penetrate along the timbers centerline, P3. - East abutment creosote original cribbing in fair condition with various checks throughout, no visible signs of rot. Soils have moderate to severe erosion along the abutment cribbing which has the potential to continue to scour. - Creosote wingwalls are original with no visible signs of rot, various checks throughout. - Bearing seat timbers recently replaced and in good condition. A lot of gravels and vegetation build up on the bearing seat. - No bearings, appears the truss is resting directly on timber cribbing.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Steel truss in good condition overall. Some light rust to connective pins and most truss members. Protective coating peeling in many locations. - No expansion joints.		

DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	I - Inapplicable	Roadway Condition:	F1 - Fair
Approach Rail:	I - Inapplicable		
Comments:	- Raceway has some damaged sections. Chesses is good condition. - Timber curbs in fair condition. - No structure rail. Truss forms the barrier. - No guiderail, or end blocks. Hazard markers in place.		
HYDROLOGY			
Water Velocity:	0.1 m/s	Ice Problem:	K - Known Problem
Water Depth:	1 m	Scour Problem:	N - No Problem
Waterway:	02 - InAdequate	Debris Problem:	K - Known Problem
Comments:	- Bridge is low for high water/ice conditions. Timbers seen in deck cross bracing. Many trees along the banks of the river. Moderate to severe erosion along east river bank.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2025	Replacement Year:	
Antic. Rehab. Cost:	\$20,000	Replacement Cost:	\$TBD
Recommendations:	- Repair sections of the raceway. - Remove all gravels from the bearing seat. - Repair erosion on east abutment soils. - Recommend to block west abutment transverse cribbing spans where bearing timbers are supported.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Bridge overall in fair condition with P3 areas. - Hazards: Boat travel and working around water. - Structure has a noticeable sag.		
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			