

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B11282023-4	
Date: 11/28/2023		Inspected By: Darrell Avery		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:	2-043 - NORTHWEST BROOK BRIDGE				
Route:	2-1-08		Overall Length:	23 m	
Year Built:	1992	Est: No	Overall Width:	15 m	
Year Last Rehab.:		Est: No	Roadway Width:	7 m	
Region:	CENTRAL EAST		Sidewalk Width:	0 m	
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.:	3 m	
Type of Structure:	04 - Rigid Frame		Max Depth of N.W.L.:	0.5 m	
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:		
Type of Handrail:	06 - None		<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>
Roadway Surface:	02 - Asphalt		1	12.4	4
Alignment Vertical:	01 - Good		2	0	5
Alignment Horizontal:	01 - Good		3	0	6
Restrictions:	No				
BRIDGE PHOTOS					
					
SUBSTRUCTURE					
Condition:	F2 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Previous inspection - Concrete abutments and wing walls. Some light cracking throughout (1-2mm width) continuous through roof. Concrete erosion evident on both abutments below high water mark. Abutment 2 is scoured at solid rock base. New inspection - efflorescence at concrete cracks				
SUPERSTRUCTURE					
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable		
Comments:	Rigid frame construction. New inspection - Some cracks in frame ceiling with efflorescence.				
DECK					
Condition:	U - Uninspectable	Curbs:	I - Inapplicable		

Hand Rail:	I - Inapplicable	Roadway Condition:	I - Inapplicable
Approach Rail:	F2 - Fair		
Comments:	Previous inspection - Approximately 2 metres of fill over structure. Standard guide rail left and right; three posts, both sides over structure are galvanized steel. Some minor impact damage on left side steel post which has bent the post - the holes in the guiderail no longer match the holes in the post therefore they can no longer be attached. New inspection - more damage to end of right guiderail. Deteriorated asphalt with exposed gravel on right side.		
HYDROLOGY			
Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.8 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Abutment 2 is scoured at solid rock base. Abutment 2 left and #1 right appears to be losing armor stone into the brook.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$tbd	Replacement Cost:	\$tbd
Recommendations:	Previous inspection - Repair bent steel guiderail post and re-attach rail. Monitor scour at Abutment 2. Replace all wooden rail posts and all rail.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.