

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B05302022-2	
Date: 4/20/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-284 - QUARRY BROOK BRIDGE - R			
SUBSTRUCTURE					
Condition:	F2 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Original structure extended approximately 2.0 meters upstream and 5.0 meters downstream. Severe scour/erosion at base of original frame legs repaired in 2018 rehab. Visible footings upstream extension remain in fair condition. Wide horizontal/vertical crack in face of pier footing north span. Medium erosion to remainder of frame leg/pier.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable		
Comments:	Heavy efflorescence deposits on faces of frame legs/pier leaking from construction joint at deck/frame leg intersection. Wide cracks, medium efflorescence, medium spall at upstream extension construction joint north/south span. Medium vertical/horizontal cracks in remainder of frame leg faces with efflorescence deposits. Hairline vertical/map cracks in all four wingwalls with light efflorescence. Steel ties exposed on face of frame legs/pier. Wide horizontal/vertical crack with medium delamination/spall on original structure pier face north span construction joint expansion.				
DECK					
Condition:	F1 - Fair	Curbs:	F2 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	F2 - Fair				
Comments:	Medium longitudinal crack with medium honeycombing to downstream soffit north span. North/south span soffit light efflorescence deposits with light spalling. Wide longitudinal cracks, medium spalling with light efflorescence deposits on upstream extension construction joint soffit traveling down vertical into frame legs. Narrow vertical/transverse cracks to interior curb, top of curb and fascia east/west. Medium erosion to NE/SW corner of structure. Asphalt has medium transverse cracks at north approach and medium wheel rutting. Medium disintegration/spall on downstream deck fascia over pier wall. New curbs, end blocks, exterior deck fascia 2019 rehab. New steel handrails and approach/exit guiderail in 2018 rehab. No rail installed NE corner.				
HYDROLOGY					
Water Velocity:	0.3 m/s	Ice Problem:	P - Possible Problem		
Water Depth:	0.4 m	Scour Problem:	P - Possible Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	Minor shifting with medium loss of components to upstream gabion retaining wall.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2026	Replacement Year:	2030		
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$600,000.00		
Recommendations:					

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
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Additional Observations:

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