

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B05312022-3	
Date: 5/16/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-161 - MALL BAY BRIDGE - R			
SUBSTRUCTURE					
Condition:	F2 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Assumed condition of buried/submerged reinforced concrete frame leg footings. Medium erosion is visible along bottom of frame leg face and footings.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable		
Comments:	Narrow map cracking with medium efflorescence deposits in all four wing walls. Severe spall with medium corrosion to exposed rebar at base of east corner frame leg. Severe spall/erosion with exposed rebar to north center frame leg face near water mark. Medium delamination with medium horizontal/vertical cracks and medium efflorescence to corner of frame legs. Numerous medium angular/vertical cracks with heavy efflorescence deposits in faces of frame legs which continue across the haunch into deck soffit.				
DECK					
Condition:	F1 - Fair	Curbs:	I - Inapplicable		
Hand Rail:	I - Inapplicable	Roadway Condition:	I - Inapplicable		
Approach Rail:	P3 - Poor				
Comments:	Numerous medium/wide angular/longitudinal cracks with heavy efflorescence/stalactites in deck soffit. Narrow map cracks with vegetation growth at upstream and downstream top of curb. Medium/wide horizontal cracks opening up along construction joints in deck fascia's. Narrow map cracks with medium efflorescence throughout both upstream and downstream fascia's. Standard guiderail contains abrasions, dents, and decaying posts.				
HYDROLOGY					
Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem		
Water Depth:	Tidal m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	Severe embankment erosion at NW corner undermining wing wall. SW rip rap migrating into channel.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2026	Replacement Year:	2050		
Antic. Rehab. Cost:	\$80,000.00	Replacement Cost:	\$1,500,000.00		
Recommendations:	Install new guiderail, repair embankment erosion at SW corner, repair concrete defects, install rip rap.				
OBSERVATIONS					
Overall Condition:	F1 - Fair	Requires Further Inspection:	No		
Additional Observations:					