

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B09022022-4</b>	
Date: 7/21/2022		Inspected By: M Button		Category: Office - Bridge Office	
<b>BRIDGE INFORMATION</b>					
Site:		1-362 - DUMP ROAD UNDERPASS - ARGENTIA - R100			
<b>SUBSTRUCTURE</b>					
Condition:	P3 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- South abutment has narrow cracks, with severe efflorescence leaching from bearing seat area. The southeast corner has a large spall with various delaminations with exposed rebar with severe corrosion caused from a leaking expansion joint. - North abutment in fair condition. - All columns in fair condition with narrow cracks. - Pier caps have small areas of delaminations. Other small areas have already spalled exposing reinforcement with severe corrosion. - Wingwalls are all in fair condition with narrow map cracks. - No visible bearings or bearing seat.				
<b>SUPERSTRUCTURE</b>					
Condition:	F1 - Fair	Expansion Joints:	P - Poor		
Comments:	- Deck soffit has medium cracks and areas of efflorescence throughout, multiple locations of spalling and corrosion. North side has hairline map cracking throughout. - Deck reinforcement chairs exposed throughout with rust staining. - Expansion joints are leaking severely and not functioning to protect other components from damage, P. - Deck fascias have isolated locations of wide cracks. Cracks likely caused from corrosion to reinforcement.				
<b>DECK</b>					
Condition:	F1 - Fair	Curbs:	F1 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F2 - Fair				
Comments:	- Asphalt in fair condition overall. Moderate width transverse cracks around expansion joints. - Curb interior sides and top have various width cracks with areas of delamination. Curb exteriors in fair condition. Cantilevered portion has hairline map cracks throughout. - Structural rail in fair condition. - Guiderail in fair condition, connected to end blocks, has collision dampening posts and is missing 3 hazard markers. - End blocks all in fair condition. - Weeds growing in the gravel next to the curbs along the length of the bridge.				
<b>HYDROLOGY</b>					
Water Velocity:	n/a m/s	Ice Problem:	NA - Not Applicable		
Water Depth:	n/a m	Scour Problem:	NA - Not Applicable		
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable		
Comments:	- Not Applicable				
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2025	Replacement Year:	2045		
Antic. Rehab. Cost:	\$125,000	Replacement Cost:	\$3,500,000		
Recommendations:	- Replace all expansion joints, may have to complete a partial deck replacement around the south expansion joint. - Paint over graffiti. - Patch spalls on piers. - Chip/inject cracks around structure. - Remove gravels and				

vegetation over the structure.

**OBSERVATIONS**

**Overall Condition:** F1 - Fair **Requires Further Inspection:** No

**Additional Observations:** - Several components are starting to show their age. Suspect deterioration will start to accelerate over the next years. - Bridge overall in fair to poor condition. - Park below on dump road and again up top. Wingwall areas fenced in.

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