

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B05312022-2</b>	
Date: 4/20/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		1-315 - PENSTOCK BRIDGE - R			
<b>SUBSTRUCTURE</b>					
Condition:	F1 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Original structure extended approximately 3.0 meters upstream and downstream. Assumed condition of buried reinforced concrete frame leg footings.				
<b>SUPERSTRUCTURE</b>					
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	Wide horizontal/vertical cracks with medium efflorescence deposits on original frame leg faces and downstream extension. Severe disintegration/delamination/spalling to downstream frame legs and original upstream frame leg faces. Medium scaling/erosion to frame leg faces.				
<b>DECK</b>					
Condition:	P1 - Poor	Curbs:	I - Inapplicable		
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	I - Inapplicable				
Comments:	Wide longitudinal/transverse cracks with light efflorescence deposits in original/downstream extension soffit. Severe disintegration/delamination/spalling with severe rusting to exposed reinforcement. Efflorescence leaking through construction joint at downstream deck/curb repair. Wide transverse crack with severe spall to NW soffit upstream. Narrow cracks with light efflorescence in upstream curb/deck fascia. Wide horizontal crack in SW wing wall. Narrow vertical/horizontal cracks with light efflorescence, medium erosion, and scour to NW wing wall. Very wide vertical crack NW wing wall. Asphalt has medium edge cracking, medium longitudinal cracks, medium alligator cracks, and severe wheel rutting. No approach/exit guiderail. No hazard markers.				
<b>HYDROLOGY</b>					
Water Velocity:	0 m/s	Ice Problem:	N - No Problem		
Water Depth:	0 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:					
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2023	Replacement Year:	2025		
Antic. Rehab. Cost:	\$60,000.00	Replacement Cost:	\$400,000.00		
Recommendations:	Resurface asphalt deck and approaches. Install approach/exit rail with hazard markers where possible. Repair all concrete defects.				
<b>OBSERVATIONS</b>					
Overall Condition:	P1 - Poor	Requires Further Inspection:	No		
Additional Observations:	P1 - Original structure and downstream extension. F1 - Upstream extension. Minor repair done to top of deck on downstream extension to accommodate re-installation of salvaged aluminum handrail.				