

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B05312022-1</b>	
Date: 4/20/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		1-314 - PENSTOCK BRIDGE, SEAL COVE - R			
<b>SUBSTRUCTURE</b>					
Condition:	P1 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	P1 - Original concrete arch, F1 - Extensions. Original arch structure extended approximately 3.0 meters upstream and downstream. Unsure if original arch or extensions have footings. Vertical construction joints between original arch and extensions opening up. Medium vertical cracks with heavy efflorescence deposits in original arch abutments. Severe honeycombing to extension abutment faces. Severe erosion along base of original arch and extension abutment faces. Steel ties exposed on abutment extension faces.				
<b>SUPERSTRUCTURE</b>					
Condition:	I - Inapplicable		Expansion Joints:	I - Inapplicable	
Comments:					
<b>DECK</b>					
Condition:	P1 - Poor	Curbs:	F1 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F2 - Fair				
Comments:	P1 - Original arch upstream fascia, F1 - Remainder. Wide horizontal/vertical cracks and severe delamination/spalling/disintegration with severe rusting to exposed reinforcement on upstream original deck fascia. Wide horizontal cracks, medium efflorescence and medium spall/disintegration to original downstream deck fascia. Medium honeycombing to soffit on both extensions. Light bulge to SE gabion wall. Four hazard markers installed to ends of aluminum handrails. SW hazard marker detached laying on ground. End caps missing in handrail.				
<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:	2030		
Antic. Rehab. Cost:	\$30,000.00	Replacement Cost:	\$600,000.00		
Recommendations:	Repair all concrete defects. Attach SW hazard marker and replace handrail end caps.				
<b>OBSERVATIONS</b>					
Overall Condition:	P1 - Poor	Requires Further Inspection:	No		
Additional Observations:	P1 - Original Concrete Arch, F1 - Remainder. SE approach guiderail angles 45 degrees to structure and runs along NL Power access road. NW approach guiderail runs for two lengths and turns 90 degrees to run along road to pump house.				

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