

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02112025-3	
Date: 2/6/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-105 - SMOOTH COVE BRIDGE - R			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Frame legs have areas of severe concrete erosion & honeycombs, P3. - Frame leg construction joints eroded and open along their length. - Upstream footing has a large spall/erosion area with a wide crack propagating from the area to the top of the frame leg, P3 to P1.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- West deck fascia heavily scaled with various minor cracks, F1. Exterior of curbs replaced in 2023. - At structure extensions, deck soffit has cracking with efflorescence. Joints visibly leaking from above, P3 to P1. - Deck soffit has numerous areas with honeycombs from original construction, P3. - At the mid-transverse point, the deck soffit has large spalls and suspected widespread delaminations, P3 to P1. - Large boulders visible in deck soffit concrete from original construction. - Deck soffit F1 remainder. - River frozen during time of inspection and deck soffit was only viewed from the inlet/outlet.				
DECK					
Condition:	P3 - Poor	Curbs:	G - Good		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	G - Good				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - New end blocks and approach rail/posts in 2023, G. - Hazard markers in place. - Structure rail has minor dents and scrapes, F2. - Asphalt surface has moderate cracking throughout and rutting in both directions. Local failure of surface course to base in some locations, F1. - Curbs replaced in 2023. Assumed to be in good condition.				
HYDROLOGY					
Water Velocity:	< 0.5 m/s	Ice Problem:	P - Possible Problem		
Water Depth:	< 0.5 m	Scour Problem:	K - Known Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Scour to south footing on the inlet side. There maybe more locations.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:	2035		
Antic. Rehab. Cost:	\$N/A	Replacement Cost:	\$2,500,000		
Recommendations:	- Replace structure within 10 years as an estimate.				
OBSERVATIONS					
Overall Condition:	P3 - Poor	Requires Further Inspection:	No		
Additional Observations:	- River frozen during time of inspection and deck soffit was only viewed from the inlet/outlet.				