

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09202021-4	
Date: 4/7/2021	Inspected By: Paul Lawrence	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-195 - BROWNSDALE RIVER BRIDGE #1		
Route:		Overall Length:	4.5 m
Year Built:	1960	Est: No	Overall Width: 10.1 m
Year Last Rehab.:		Est: No	Roadway Width: 7.3 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.1 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	3.6
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	I - Inapplicable	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Frame legs have been poured onto bedrock Original structure was extended approx. 4.0 m D/S		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
Comments:	P1 - original F2 - expansion Severe erosion and scouring along base of both frame legs Frame legs and 4 wingwalls have widening vertical cracks in concrete with efflor. deposits coming through cracks One wingwall tipped towards stream		
DECK			
Condition:	F1 - Fair	Curbs:	I - Inapplicable

Hand Rail:	F1 - Fair	Roadway Condition:	I - Inapplicable
Approach Rail:	I - Inapplicable		
Comments:	- Ext. deck soffit has severe concrete spalling with pieces missing and rebar exposed and rusting - Concrete rails have cracking with some pieces missing exposing rebar. Also rail is too low		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.3 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Medium to major erosion and scouring under frame legs and wing walls		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:			

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes
Additional Observations:	Should be inspected again as the scouring and concrete deterioration has gotten worse since last inspection		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS