

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B04282021-16	
Date: 4/22/2021	Inspected By: Butler	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	TCH-021 - SOUTHWEST RIVER BRIDGE		
Route:	1	Overall Length:	69.3 m
Year Built:	1964	Est: No	Overall Width: 10 m
Year Last Rehab.:	2014	Est: No	Roadway Width: 8.6 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	7 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	30.5
Alignment Vertical:	02 - Adequate	2	30.5
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	U - Uninspectable
		Bearing Seat:	U - Uninspectable
Comments:	Concrete abutments, wing walls and centre pier. Abutments and wingwalls have scaling, cracking, delaminations and disintegration in several areas. Centre pier has some disintegration of the upper sections with some sections of the upstream side repaired in 2014 and some erosion in the flow zone. Abutment 2 upstream has lose of concrete over icebreaker. Icebreaker missing from center pier, and now is on the shoreline downstream.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	Five AASHTO girders. Some light cracking of all girders. Span two girder five has exposed rebar due to cover issues. Delamination, disintegration and exposed rebar girder five, span one, near abutment one and girder one span two. Some staining of all girders due to cover issues. Expansion joints (three) replaced in 2014.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	P1 - Poor		
Comments:	Full concrete deck rehab and new asphalt wearing surface installed in 2014, good condition. Curb faces and top rehab in 2007 with several sections of the left soffit and fascia repaired in 2014, some minor cracking and disintegration remains on the fascia of both curbs. Four rail aluminum bridge rail with concrete end blocks repaired in 2014, good condition. Approach rail is too short at all corners to cover hazards. Approach #2 information sign requires replacement. Approach #2 right has a damaged rail post. There is a large settlement on Approach #1 right causing a hazard to traffic. Approach 2 potholed and there are old core holes from previously installed detour signs placed during re-hab. Deck Pavement is potholed. Facia on Abutment 1 left near the expansion joint is spalling.		

HYDROLOGY

Water Velocity:	1 m/s	Ice Problem:	N - No Problem
Water Depth:	1 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Significant ice build-up at the bridge location during most spring run offs, potential for girder damage in heavy ice years. Center pier checked for scour 2017.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Repair settlement on approach #1. Repair post on approach #2 right. Replace information sign. Place on Rehab schedule for substructure. Repair potholes, replace hazard markers, clean old bridge debris from river, repair facia, repair pavement on approach and fill in old coreholes.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Missing 3/4 hazard markers. Old concrete rail and old icebreaker is littering the River.		

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