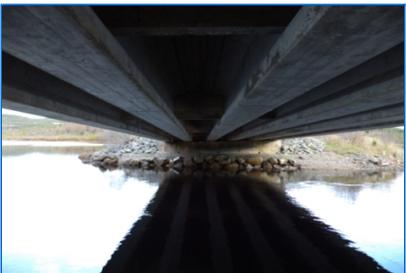


	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08052024-5	
Date: 8/2/2024	Inspected By: D. Burns/B. Grandy	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	2-048 - SOUTHWEST ARM BROOK BRIDGE		
Route:	210	Overall Length:	44.2 m
Year Built:	1971	Est: No	Overall Width: 11.8 m
Year Last Rehab.:	2012	Est: No	Roadway Width: 10.4 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m
Purpose of Structure:	03 - Over Navigable Waters		
Type of Handrail:	04 - Steel Rail	Spans:	
Roadway Surface:	02 - Asphalt	Span No.:	Length
Alignment Vertical:	01 - Good	1	37.2
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	Concrete abutments and wingwalls. Abutment 2 left corner has separation, all other corners were recently rehabbed. Minor cracking and honeycombing on both abutments. Some bearing pads look to be squat, with fallen debris on bearing seats due to poorly consolidated diaphragms.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
Comments:	6 AASHTO girders. All girders have spalling ends with girder 4, abutment 1 being the worst. Some girders ends now have exposed rebar. This may be due to expansion joints leaking. Expansion joints are plugged with sand. Multiple girders have exposed rebar with girder 2 abutment 2 showing roughly 250-400 mm. Diaphragms have poorly consolidated concrete and some are exposing rebar. Minor honeycombing on all girders. Right side fascia is rehabbed and showing leaking efflorescence.		

DECK			
Condition:	F1 - Fair	Curbs:	F2 - Fair
Hand Rail:	G - Good	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Bridge identification sign missing. Underside of deck has leftover formwork and has signs of rust and effloresce deposits, indicating that these areas are leaking onto girders. Vegetation growing through drainage grates, with heavy sand build up on deck. 2 separate drip beads, 1 on fascia and 1 on soffit. Some cracking of curb around expansion joint section. Some minor cracking of end blocks.		
HYDROLOGY			
Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Tidal m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal-Depth and velocity fluctuate.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$TBD	Replacement Cost:	\$TBD
Recommendations:	Latex repairs on girders needed. Potential asphalt repairs required as well.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	Poorly constructed, with leftover formwork in the deck and poorly consolidated concrete posing issues for the bridge's sustenance. Bridge missing identification sign.		

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