

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05282019-5	
Date: 5/28/2019	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-149 - NORTH ARM BRIDGE, HOLYROOD		
Route:		Overall Length:	26 m
Year Built:	1984	Est: No	Overall Width: 10 m
Year Last Rehab.:		Est: No	Roadway Width: 9.2 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4.4 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	11.4
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Light erosion to tops and faces of partially submerged abutment footings. Bearing and bearing seat inspections restricted due to height. Narrow-medium vertical/alliation cracks with light efflon deposits on wingwall. Light delamination/spacing with light efflon deposits to extension abutment faces under expansion gabs on curbs.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	Medium cracks with light efflon in extension creep blocks. Beam remain fairly in good condition. Alligator cracks in all four end blocks and expansion joints. Pads at semi-interval abutments.		
DECK			
Condition:	F2 - Fair	Curbs:	F1 - Fair

Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	G - Good		
Comments:	Narrow transverse cracks with light efflon deposits in extension cantilever deck soffit. Medium vertical transverse horizontal crack in deck curb and facials. Light corrosion to deck downspouts. All damaged approach and exit rail repaired or new rail installed in 2017 rehab. Damaged section of aluminum hand rail replaced or used rail installed. Some settlement present on road surface at expansion gap location.		

HYDROLOGY

Water Velocity:	0.9 m/s	Ice Problem:	N - No Problem
Water Depth:	1.0 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2019	Replacement Year:	2034
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$1100
Recommendations:	Hazard markers not with new guard rail - should be installed. New approach and exit rail and new aluminum handrail installed in 2017 rehab.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	New approach and exit rail and new aluminum handrail installed in 2017 rehab.		

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