25.9 m



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B09142021-8

Overall Length:

Date: 2/25/2020 Inspected By: Chris Lyver Category: Eng. - Engineering

BRIDGE INFORMATION

Site: 1-161 - MALL BAY BRIDGE

Route:

Year Built:1985Est: YesOverall Width:0 mYear Last Rehab.:Est: NoRoadway Width:0 m

Region: AVALON PENINSULA Sidewalk Width: 0 m

Jurisdiction: Provincial Clearance to R.D. or N.W.L.: 0 m

Type of Structure: 04 - Rigid Frame Max Depth of N.W.L.: 0 m

Purpose of Structure: 04 - Over Non-Navigable Waters Spans:

06 - None Type of Handrail: Span No.: Length Span No.: Length 01 - Concrete Roadway Surface: 1 12.7 4 01 - Good 2 0 5 0 Alignment Vertical: 3 0 6 0 02 - Adequate Alignment Horizontal:

Restrictions: No

BRIDGE PHOTOS





SUBSTRUCTURE

Condition: F2 - Fair **Bearings:** I - Inapplicable

Bearing Seat: I - Inapplicable

Comments: - Assumed condition of buried/ submerged reinforced concrete frame leg footings. - Medium erosion along bottom

faces of frame leg footings (visible through water).

SUPERSTRUCTURE

Condition: F1 - Fair Expansion Joints: I - Inapplicable

Comments: - Numerous medium vertical/angular cracks with heavy efflor./stalactite deposits in faces of frame. Cracks extend

across haunch into deck - Severe small/medium spall with medium corrosion to exposed reinf. at base of east frame leg (middle at const. joint) - Narrow map cracking with med efflor. deposits in 4 wingwalls - Light /med

delamin./spalling at corners of frame legs

DECK

I			
Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	I - Inapplicable	Roadway Condition:	I - Inapplicable
Approach Rail:	P3 - Poor		
Comments:	- Numerous medium long./angular cracks with heavy efflor./stalactite deposits in deck soffit - Med./wide horiz. cracks opening up along const. joints in deck fascia's - Guiderail continues to age with dents, scrapes; decaying posts		
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:	- Severe slope erosion continues at NW corner of structure, erosion extends under NW wingwall (rip-rap has migrated into channel) Minor rip-rap migration at remaining 3 corners		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2020	Replacement Year:	2049
Antic. Rehab. Cost:	\$80	Replacement Cost:	\$750
Recommendations:	- Repair all conc. defects - Repair slope erosion at NW end - Replace aging guiderail - Install new rip-rap as required at corners		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Unchanged from 2015 inspection		
LEGEND: Condition Definitions: 1 - "Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guideling Any item which inspector all items noted above as beautiful any item which inspector all items noted above as beautiful any items noted above as beautiful any items noted above as beautiful any items in the supplementation of the	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. test below: eets spoulo pe documented by pnotograpn eleing P3 P1 P1 or C eleis spoulo pe documented by pnotograpn eleing P3 P1 P2 or C eleis Spoulo pe documented by pnotograpn eleing P3 P1 P2 or C eleis P3 P3 P3 P4 P4 or C eleis P3 P4 P4 or C eleis P3 P4 P4 or C eleis P4 P4 P4 or C eleis P4	Public). N - No Pro P - Possil K - Know	Definitions: oblem. Definitions: oblem. Definitions: Oblem. Definitions: Oblem. Againt - Maintenance. Eng Engineering. Office - Bridge Office. Office - Bridge Office.

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.

INSPECTION PHOTOS