

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B03212024-1	
Date: 9/6/2023	Inspected By: M Button / T Upshall	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-074 - TORS COVE POND SPILLWAY BRIDGE & CULVERT		
Route:	10	Overall Length:	21.6 m
Year Built:	1966	Est: Yes	Overall Width: 11.2 m
Year Last Rehab.:	2000	Est: No	Roadway Width: 7.1 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 3.3 m
Type of Structure:	04 - Rigid Frame		Max Depth of N.W.L.: 0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	06 - None		Span No.: Length Span No.: Length
Roadway Surface:	02 - Asphalt		1 4.4 4 0
Alignment Vertical:	01 - Good		2 0 5 0
Alignment Horizontal:	01 - Good		3 0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
<div style="display: flex; justify-content: space-around;">    </div>			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Medium vertical/horizontal cracks with light honeycombing to upstream wingwalls. Severe scour/erosion under original frame leg footings. Medium erosion along faces of upstream extension footings. Heavy deposits of efflorescence on original frame legs.		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
Comments:	Severe spalling, delamination, and disintegration with severe corrosion (section loss) to exposed reinforcement beam and rebar on original deck edges and fascia. Severe disintegration, spalling with severe rusting to exposed reinforcement to upstream deck fascia on extensions. Medium spalling delamination, and narrow to wide longitudinal/transverse cracks in original deck soffit leaking efflorescence. Narrow cracks in deck soffit on extensions. Numerous wide horizontal/vertical cracks in faces of original frame legs leaking efflorescence. Narrow		

horizontal/vertical cracks in faces of frame leg extensions. Severe delamination/spalling/disintegration to downstream exterior face of frame legs.			
DECK			
Condition:	P1 - Poor	Curbs:	I - Inapplicable
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	Numerous medium to wide longitudinal/transverse cracks, medium potholes in Route 10 asphalt surface. Guiderail installed as safety rail needs to be raised to avoid falling hazard. Adjacent culvert contains light surface corrosion to bolts, medium deformations, medium corrosion to bottom of barrel, and couplers opening up around joins where backfill is visible.		
HYDROLOGY			
Water Velocity:	0 m/s	Ice Problem:	N - No Problem
Water Depth:	0 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2024	Replacement Year:	2025
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Repair concrete defects (spalling, scour, erosion, cracks, and delamination). Resurface asphalt on Route 10. Replace standard guiderail on new posts. Replace adjacent culvert. Install new safety handrail.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes
Additional Observations:	P1 – Original Structure. F1 – Extensions. Bridge office should re-inspect original rigid frame structure.		

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