

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B04092023-2</b>	
Date: 4/3/2023		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		1-359 - PETTY HARBOUR BRIDGE NO.2 - R11			
<b>SUBSTRUCTURE</b>					
Condition:	F2 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	Assumed condition of buried reinforced concrete frame leg footings. Original structure extended approx. 2.5m upstream and downstream. Light erosion with narrow vertical cracks to interior faces of frame legs.				
<b>SUPERSTRUCTURE</b>					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	F2 (extension) F1 (original structure) P3 (construction joints) Very severe spalling, severe efflorescence deposits with medium corrosion to exposed reinforcement at construction joint in frame legs on upstream extension. Narrow vertical/map cracks and light spalling/delamination to leg haunches in original structure.				
<b>DECK</b>					
Condition:	P3 - Poor	Curbs:	F2 - Fair		
Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	I - Inapplicable				
Comments:	P3 Construction Joint soffit. Very severe spalling with medium corrosion to exposed reinforcement in deck soffit at construction joint upstream. Wide longitudinal crack in soffit downstream. Medium horizontal cracks with medium scaling to upstream curb fascia. Narrow map cracking in downstream fascia. East/west steel handrails are deformed, tilting away from roadway and have light surface corrosion to welds. Narrow longitudinal/map cracking with light efflorescence to original soffit. Severe erosion undermining asphalt and loss of embankment material at SW corner. Medium erosion to NE corner of structure. No hazard markers.				
<b>HYDROLOGY</b>					
Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem		
Water Depth:	0.2 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem		
Comments:	Debris/garbage accumulating at inlet with moderate effect on stream flow. Medium bulging and shifting of gabion basket along riverbank.				
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2024	Replacement Year:	2030		
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0		
Recommendations:	Install new hazard markers. Repair concrete defects and steel handrail. Repair erosion to NE/NW corners. Remove debris from stream.				
<b>OBSERVATIONS</b>					
Overall Condition:	P3 - Poor	Requires Further Inspection:	Yes		
Additional Observations:	P3 Upstream Construction Joint. F1 Original Structure. F2 Extensions. 600mm CSP at NW corner (inlet). 300mm plastic pipe in SW gabion (outlet)				