

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B10202017-4</b>	
<b>Date:</b> 10/20/2017	<b>Inspected By:</b> AB	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	2-005 - WALKHAM'S BROOK BRIDGE		
<b>Route:</b>	235	<b>Overall Length:</b>	29 m
<b>Year Built:</b>	2006	<b>Est:</b> No	<b>Overall Width:</b> 11.5 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 7.8 m
<b>Region:</b>	CENTRAL EAST		<b>Sidewalk Width:</b> 1.4 m
<b>Jurisdiction:</b>	Provincial		<b>Clearance to R.D. or N.W.L.:</b> 3 m
<b>Type of Structure:</b>	01 - AASH to Girder		<b>Max Depth of N.W.L.:</b> 4 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters		<b>Spans:</b>
<b>Type of Handrail:</b>	01 - Aluminum Rail		<b>Span No.:</b> <b>Length</b> <b>Span No.:</b> <b>Length</b>
<b>Roadway Surface:</b>	02 - Asphalt	1	13.2   4   0
<b>Alignment Vertical:</b>	01 - Good	2	0   5   0
<b>Alignment Horizontal:</b>	01 - Good	3	0   6   0
<b>Restrictions:</b>	No		
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	Concrete abutments and wing walls. A few light cracks in wing walls. Some minor erosion along abutment walls. Large build up of bird feces on bearing seats.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	7 CPCI girders. Expansion joint abutment one has snow plow impact damage near right curb and is leaking.		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair

**Approach Rail:** F2 - Fair

**Comments:** Aluminum bridge rail with concrete end blocks. Some light cracking in curb and sidewalk, some small spalls from snow plow impacts. Approach #2 left rail posts are broken. Hazard Marker on Approach #2 right requires re-attachment. Asphalt wearing surface is missing in places exposing waterproofing. The joint of the paved approach slab and roadway is potholing and cracking. There is a washout at Approach 1, right - adjacent to the gutter. possible cause is the settlement of the surrounding roadway. There is a large section of damage to Abutment #1 right at the curb and expansion joint. the joint has been damaged and is now leaking.

**HYDROLOGY**

<b>Water Velocity:</b>	0.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.4 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Tidal Zone, Navigable waters		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2017	<b>Replacement Year:</b>	2017
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Re-surface asphalt deck. Clean bridge sub and super structures. Repair approach rail. Re-attach hazard marker. Repair washout and remedy problem by repairing settlement. Replace navigation beacon. Repair broken expansion joint.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Pigeons are using this structure covering it with excrement. The inland navigation beacon is missing, the seaward one may not be operable due to pigeon poop on the solar panel.		

**LEGEND:**

<b>Condition Definitions:</b>			<b>Problem Definitions:</b>	<b>Category Definitions:</b>
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**