Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B05022011-9						
Date: 3/10/2011	Inspected By: Chris Lyv	Category: Eng Engineering							
BRIDGE INFORMATION									
Site:	1-080 - SIR AMBROSE SH	HEA LIFT BRIDGE							
Route:	100			Overall Length:		98 m			
Year Built:	1961 Est: No			Overall Width:		11.65 m			
Year Last Rehab.:	Est: No			Roadway Width:		7.35 m			
Region:	AVALON PENINSULA			Sidewalk Width: Clearance to R.D. or		2.15 m			
Jurisdiction:	Provincial			N.W.L.:		0 m			
Type of Structure:	07 - Lift Bridge			Max Depth of N.W.L.:		0 m			
Purpose of Structure:	03 - Over Navigable Water		Spans:						
Type of Handrail:	04 - Steel Rail			Span No.:	<u>Length</u>	Span No.:	Length		
Roadway Surface:	04 - Steel			1	30	4	0		
Alignment Vertical:	01 - Good			2	30	5	0		
Alignment Horizontal:	01 - Good			3	30	6	0		
estrictions:	No								
SUBSTRUCTURE			3.2004 11:44						
Condition:	P1 - Poor	Bearings		F1 - F					
		Bearing		F1 - F					
Comments:	- P-1, piers F-1, remainder Assumed condition of buried and submerged reinforcement concrete abutment and pier footings Numerous wide horizontal/vertical cracks in abutments, pier caps, bearing pedistals and wingwalls (medium efflorescence deposits) Medium erosion and spalling with medium corrosion to exposed reinforcement to face and corners of N abutment Medium erosion/spalling to face of south abutment Medium spalling below SW end block Medium corrosion and paintscaling on steel bearings Very severe corrosion to sheet pile ice walls surrounding piers Very severe disintergration to ends of both piers Top of south abutment footing repaired since last inspected.								
SUPERSTRUCTURE									
Condition:	F1 - Fair	Expansi	on Joints:	P3 - F	Poor				
Comments:	- Medium corrosion to 6 ea	xterior plate girders, transv	erse deck s						

	horizontal/vertical cracks and medium spalling at ends of both concrete counterweights.									
DECK										
Condition:	F1 - Fair		Curbs:	F1 - Fair						
Hand Rail:	F1 - Fair		Roadway Condition	on: F1 - Fair						
Approach Rail:	P1 - Poor									
Comments:	- Medium transverse/longitudinal cracks with light efflorescence deposits in north span deck soffit South span deck soffit inaccessible (water depth and flow) (assume unchanged from '09 inspection) Numerous repaired areas in steel grid decking on center span Wide horizontal/vertical cracks and medium spalling to exterior curb fascias at expansion joint locations Guide rails continues to age with medium damage and some decaying posts Severe rutting and numerous asphalt patches on paved approaches (rough ride) No hazard markers Medium corrosion to steel safety rails Narrow horizontal/vertical cracks with light reinforcement corrosion stain in 4 end blocks.									
HYDROLOGY										
Water Velocity:	Tidal m/s		Ice Problem:	P - Possible Problem						
Water Depth:	Tidal m		Scour Problem:	P - Possible Problem						
Waterway:	01 - Adequate		Debris Problem:	N - No Problem						
Comments:										
REPLACEMENT/REHAB	ILITATION									
Next Rehab. Date:			Replacement Yea	r: 2011						
Antic. Rehab. Cost:	\$0		Replacement Cos	t: \$1000000						
Recommendations:	- unchanged from '09 re	comendations in	stall hazard markers	s (maintenance).						
OBSERVATIONS										
Overall Condition:	F1 - Fair		Requires Further Inspection:	No						
Additional Observations:	- unchanged from '04,'07 inspections delete '09 note and add, structure tentatively scheduled to be replaced in 2011.									
EGEND: ondition Definitions: 1 * 'Good - [discontinued code]. 2 * 'Fair - [discontinued code]. 3 * 'Poor - [discontinued code]. 4 * 'Unsafe - [discontinued code]. 6 - Good. HOTO GUIDELINES: Ispection Photos:	F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.	C - Unsafe (Closed to U - Uninspectable. I - Inapplicable.		Problem Definitions: Category Definitions: N - No Problem. Maint Maintenance. P - Possible Problem. Eng Engineering. K - Known Problem. Office - Bridge Office. NA - Not Applicable. Office - Bridge Office.						
Please provide photos using guidelin Any item which inspector f All items noted above as b Any evidence of known ice	nes below: eels should be documented by pho eing P3, P1, P, or C , scour, debris, waterway problem	otograpn s								
INSPECTION PHOTOS										

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