



## BRIDGE INSPECTION FORM



Road Name: <b>Bridge</b>		Bridge Name: <b>Andrew's</b>		Bridge No: <b>B8/1</b>	RP: <b>50</b>	District: <b>UHCC</b>	
Bridge Type: Prestressed Concrete				Report Type: <b>General / Principal / Posted</b>			
<b>Marking code</b> 0 = Not inspected 1 = Satisfactory 2 = Monitor next inspection R = Routine maintenance (provide comment) S = Structural maintenance (provide comment) N = Not applicable		Overall Condition Category:	Deck width: 3.70	Posting:			
		Condition: <b>Good</b>	Total Bridge length: 42.60	Axles:			
		Expected Life: <b>20 - 40</b>	No of Spans: 2	Gross:			
			Span: of	Speed:			
			Span length:	Design Loading: <b>H20-S16</b>			
			Construction Date: 1954	Bridge Rating:			
<b>Element</b>			Inspector: <b>N. Moon</b>	Next Inspection Type:			
			Date: <b>29/7/15</b>	Date (mth/yr)			
Set	No	Description	Mark	Brief description of fault and comments			
Superstructure Elements	1	Primary load carrying element	2	Minor spall to LH span B2 bottom flange			
	2	Secondary element(s)	1	Transverse beams			
	3		2	Other (incl. deck)			
	4	Half joints					
	5	Seismic linkages/Holding Down bolts					
	6	Parapet beam or cantilever					
	7	Cross bracing					
Load-bearing Substructure	8	Foundations	0				
	9	Abutments	1	LH abutment only			
	10	Head wall	1				
	11	Pier / column	2	Cracking of solid plaster (on original structure)			
	12	Cross-head / capping beam					
	13	Bearings					
	14	Bearing plinth / shelf					
Durability Elements	15	Superstructure drainage	R	Deck ponding water. Reprofile RH approach			
	16	Substructure drainage					
	17	Movement / expansion joints	2	LH abutment and central piers showing signs of leaks			
	18	Painting : Superstructure elements					
	19	Painting : Substructure elements					
	20	Painting : Barriers / guardrails	R	Clean and paint handrail and kerbs			
Safety Elements	21	Access / walkways / gantries					
	22	Guardrail / handrail / safety fences	2	Corrosion of fixings, some nuts missing. No movement.			
	23	Carriageway surfacing	2	Some seal failure.			
	24	Footway/verge / footbridge surfacing					
Waterway Elements	25	Invert / river bed	1				
	26	Aprons					
	27	River bed upstream	R	Clear build-up of flood debris			
	28	River bed downstream	1				
	29	Scour	2	U/S of central pier			
	30	River banks	2	Very steep and high			
Retaining Elements	31	Revetment / batter slope paving					
	32	Wing walls					
	33	Retaining walls					
	34	Embankments					
Other	35	Approach rails / barriers / walls					
	36	Approach adequacy	1	Adjacent to intersection			
	37	Signs	R	RH D/S B.E.M.			
	38	Lighting					
	39	Services					
	40	Appearance	1	Handrails etc. need repainting, looks tired.			

Road Name: Bridge		Bridge Name: Andrew's	Bridge No: B8/1	RP: 50	District: UHCC
<b>Comments and Recommendations for Maintenance/Repairs</b>					
Item No.	Element No.	Suggested Remedial Work	Priority (H/M/L)	Estimated Cost	
1	15	Clear deck drains (routine maintenance task)	L	NMC	
2	20	Clean and paint handrails and timber kerbs	L	\$3,500	
3	27	Clear flood debris	L	TBC	
4	37	Install RH D/S B.E.M. complete	L	\$75	
5					
6					
7					
8					
9					
10					
<b>Total Cost</b>					
Remedial work recommended in last inspection has been completed : <b>YES / NO</b> (comment below if NO)					
RAMM Database changes required : <b>YES / NO</b> (Describe change if answer is YES)					
Comments & recommendations relating to future management (transfer to current report)					
<p>Note it was not possible to access either the right hand abutment or the cenral pier. The river banks are high and very steep. The river levels prohibited access to the pier, a small boat or kayak could be used to access the island adjacent to the pier without too many problems.</p> <p>Viewed left hand span beams with the aid of high quality binoculars.</p>					
					
Left hand approach - Note settlement and ponding.			Right hand approach - Note ponding of deck - Drainage to be improved.		



Looking upstream at bridge.



Left hand abutment - Note deck joint leaking.



Right hand abutment - Very limited access.



Centre pier - Note clearing of flood debris ideally should be carried out. - Review if scour resulting from the flood debris is exposing the piles of the original bridge's pier.





Looking upstream at river.



Ponding to right hand upstream approach.



Monitor settlement of left hand approach.











Repainting of timber kerbs and handrails required - No decay detected to the rails.

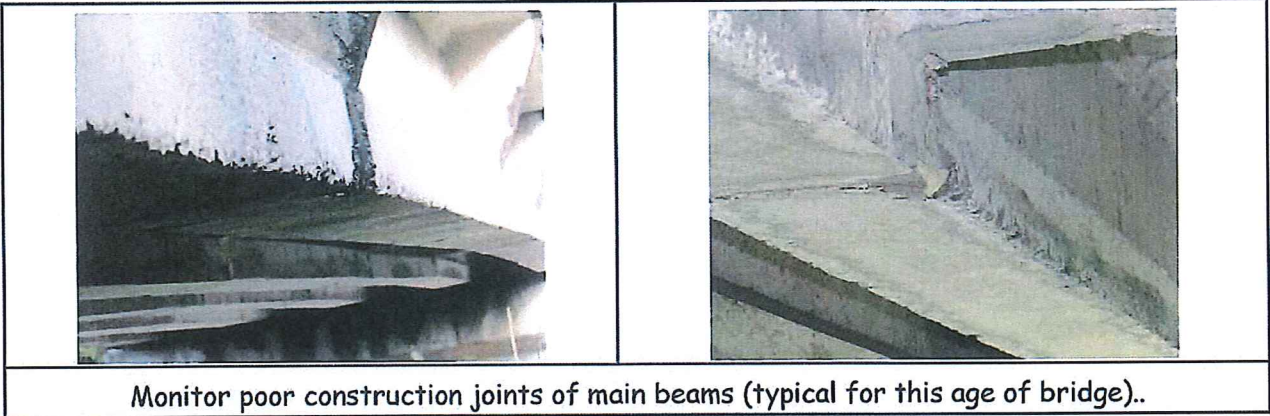





Monitor corrosion of handrail fixings - Note nut failed, no movement detected.



Clearing of vegetation from pier caps is an outstanding action.

	
<p>Flood debris at pier - Note cracking of solid plaster.</p>	<p>Close up of pier nosing - Appears that a timber nosing was in place which has failed.</p>
	
<p>Monitor minor scour to downstream of the central pier - Note beach area which would allow access to the pier from a boat/kayak.</p>	
	
<p>Monitor minor spalling to edge of left hand span upstream deck soffit.</p>	<p>Left hand abutment beam detail.</p>
	
<p>Diaphragm infill detail.</p>	<p>Poor construction of LH span B2 main beam bottom flange, reinforcing steel exposed.</p>



Inspected by (Print Name): <b>N. Moon</b>	 Signature:	Date: <b>29/7/2015</b>
Reviewed by (Print Name) : <b>M. Cockitt</b>	 Signature:	Date: <b>9/9/15</b>
Approved by (Print Name) : <b>M. Cockitt</b>	 Signature:	Date: <b>9/9/15</b>