

Appendix J Multi-Criteria Assessment

		Identifier														
Objectives	Attribute	0	4	8	20	21	7	12	14	19	24	16	32	15		
		Do Nothing	All modes bridge - Tarbottons / Dobson	All modes bridge - Chalmers NOR option	All modes bridge - Duplicate South / Carers	All modes Bridge - West / Carers	Active mode bridge - Tarbottons / Dobson	Active mode bridge - Williams / Carers	Active mode bridge - Cass / Carers	Improve existing clip-on structures	Improve north and south bound merge	Establish Public Transport Service	Composite Option 19&24	Composite option 7&14		
Social Connectivity	Education	-2	2	2	2	2	2	1	1	1	1	0	2	2		
	Health	-2	2	1	2	1	1	1	1	1	1	1	1	2		
	Retail	-2	1	3	2	2	1	1	1	1	1	1	1	2		
	Recreation	-2	3	2	2	2	1	1	1	1	0	0	1	3		
	Employment	-2	1	3	3	2	1	1	1	1	1	1	1	1		
Safety	Pedestrians	-2	3	3	2	3	3	3	3	2	0	0	2	3		
	Cyclists	-2	3	3	3	3	3	3	3	2	0	0	2	3		
	Light vehicles	-2	1	3	2	3	0	0	0	0	1	0	1	0		
	Heavy Vehicles	-2	1	2	2	2	0	0	0	0	1	0	1	0		
	Pedestrian Routes	0	3	3	3	3	3	3	3	1	0	0	1	3		
Travel Choice	Cycle Routes	0	2	2	3	2	3	3	3	1	0	0	1	3		
	Public Transport (Bus)	0	0	0	0	0	0	0	0	0	0	3	0	0		
	Emergency Service	-2	1	3	2	2	1	1	1	-1	1	-1	1	-1		
Economy	Reliable Journey Times	-3	0	1	1	1	-2	-2	-2	-2	1	-2	-2	-2		
	SH1 Average Speed	-3	1	2	3	3	-2	-2	-2	-3	1	-2	-2	-2		
	Side Road delays	-3	1	1	-2	-2	-2	-2	-2	-3	-3	-2	-2	-2		
	Network Resilience	0	3	3	3	3	2	2	2	0	0	0	0	2		

Identifier		0	4	8	20	21	7	12	14	19	24	16	32	15	
Objectives	Attribute														
	Environmental effects	-2	1	-2	-1	-1	3	3	3	2	1	1	2	2	
Opportunities and Effects	Social and cultural impacts	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Climate Change mitigation	0	0	0	0	0	1	1	1	1	0	1	1	1	
	Climate change adaptation	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Cumulative impacts	-2	2	2	2	1	1	1	1	1	1	1	1	1	
	Impacts on Te Ao Māori	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Property impacts	3	-1	-1	-2	-1	-1	-1	-1	-1	3	3	3	3	-1
	Technical Difficulty	3	-1	0	-2	-3	1	0	0	0	2	2	3	2	1
Other Criteria	Safety and Design	0	2	2	2	2	1	1	1	2	2	1	2	1	
	Consentability	3	-2	2	-1	-1	1	1	1	2	3	3	2	1	
	Scheduling	3	-3	0	-1	-3	2	2	2	2	3	2	2	1	
	Costs	3	-3	-3	-3	-3	-1	-1	-1	0	1	0	0	-1	

The Cultural Assessment that was provided for the 2014 NoR indicated that the primary concerns of Te Runanga o Arowhenua were in relation to construction effects on the Hakatere River and rehabilitation works. The scoring provided in the preceding table reflects the fact that construction works associated with any new bridge will have some temporary effects on the river.

Identifier	0	4	8	20	21	7	12	14	19	24	16	32	15
Investment Objective	Do Nothing	All modes bridge - Tarbottons / Dobson	All modes bridge - Chalmers NOR option	All modes bridge - Duplicate South / Carters	All modes Bridge - West / Carters	Active mode bridge - Tarbottons / Dobson	Active mode bridge - Williams / Carters	Active mode bridge - Cass / Carters	Improve existing clip-on structures	Improve north and south bound merge	Establish Public Transport Service	Composite Option 19&24	Composite option 7&14
Social Connectivity	-2.00	1.80	2.20	2.20	1.80	1.20	1.00	1.00	1.00	0.80	0.60	1.20	2.00
Safety	-2.00	2.20	2.80	2.30	2.80	1.80	1.80	1.80	1.20	0.40	0.00	1.60	1.80
Travel Choice	-0.20	1.80	2.00	2.30	1.90	2.20	2.20	2.20	0.60	0.10	0.50	0.80	2.00
Economy	-1.80	1.50	2.00	1.90	1.90	-0.40	-0.40	-0.40	-1.50	0.20	-1.20	-1.20	-0.40
Total	-1.44	1.85	2.24	2.22	2.04	1.46	1.38	1.38	0.67	0.45	0.27	0.92	1.72
Rank	13	4	1	2	3	6	7	7	10	11	12	9	5

Identifier	0	4	8	20	21	7	12	14	19	24	16	32	15
Investment Objective	Do Nothing	All modes bridge - Tarbottons / Dobson	All modes bridge - Chalmers NOR option	All modes bridge - Duplicate South / Carters	All modes Bridge - West / Carters	Active mode bridge - Tarbottons / Carters	Active mode bridge - Williams / Carters	Active mode bridge - Cass / Carters	Improve existing clip-on structures	Improve north and south bound merge	Establish Public Transport Service	Composite Option 19&24	Composite option 7&14
Investment Objectives	-1.44	1.85	2.24	2.22	2.04	1.46	1.38	1.38	0.67	0.45	0.27	0.92	1.72
Opportunities and effects	1.00	0.75	0.00	0.00	0.25	1.50	1.50	1.50	2.25	1.75	2.00	2.25	1.25
Other Criteria	2.40	-1.40	0.20	-1.00	-1.60	0.80	0.60	0.60	1.60	2.20	1.80	1.60	0.60
Total	0.13	0.76	1.17	0.86	0.68	1.31	1.22	1.22	1.30	1.21	1.09	1.42	1.32
Rank	13	11	8	10	12	3	5	5	4	7	9	1	2