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Memorandum

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То	Tobias Oellinger	From	s 9(2)(a)	
Сору	Nigel D'ath	Reference	500753	シレ
Date	21 November 2017	Pages (including this page)	5	P
Subject	NZTA Minor Efficiency Projects - 16 November 2017 Workshop outcomes			

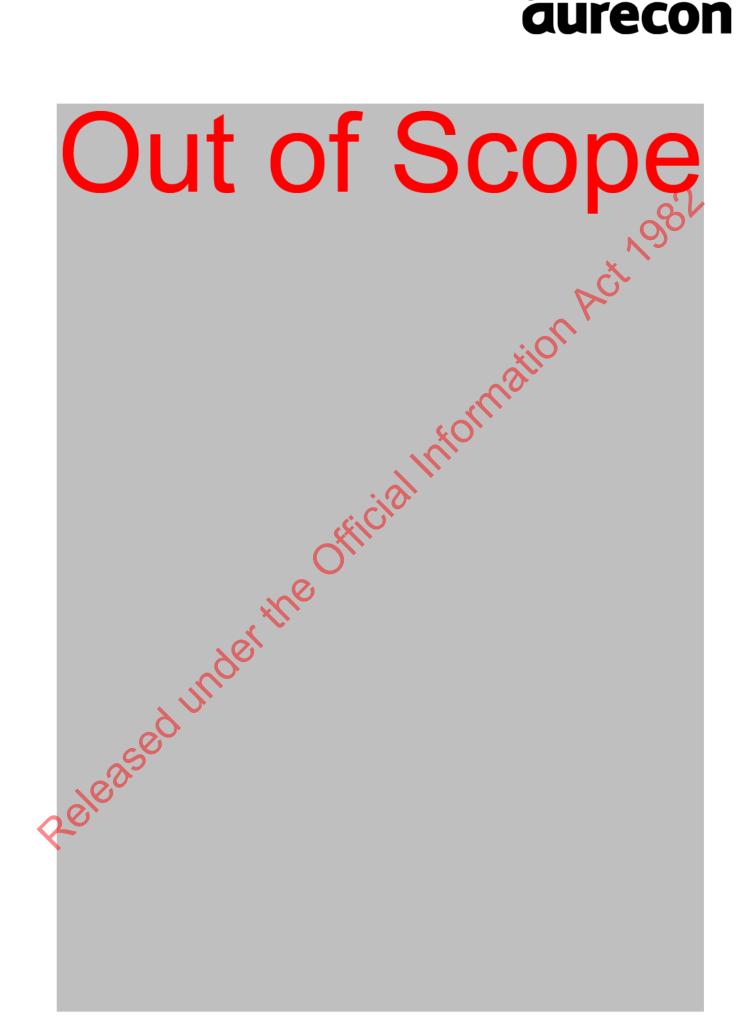
The following memo outlines the discussions and decisions relating to the options and investigation workshop.

The workshop was split into 3 sessions aligned with the TLA in which the projects lay.

Rough order cost estimates are provided below and the spreadsheet price build up is attached and includes a 15% contingency and estimates for design, MSQA etc

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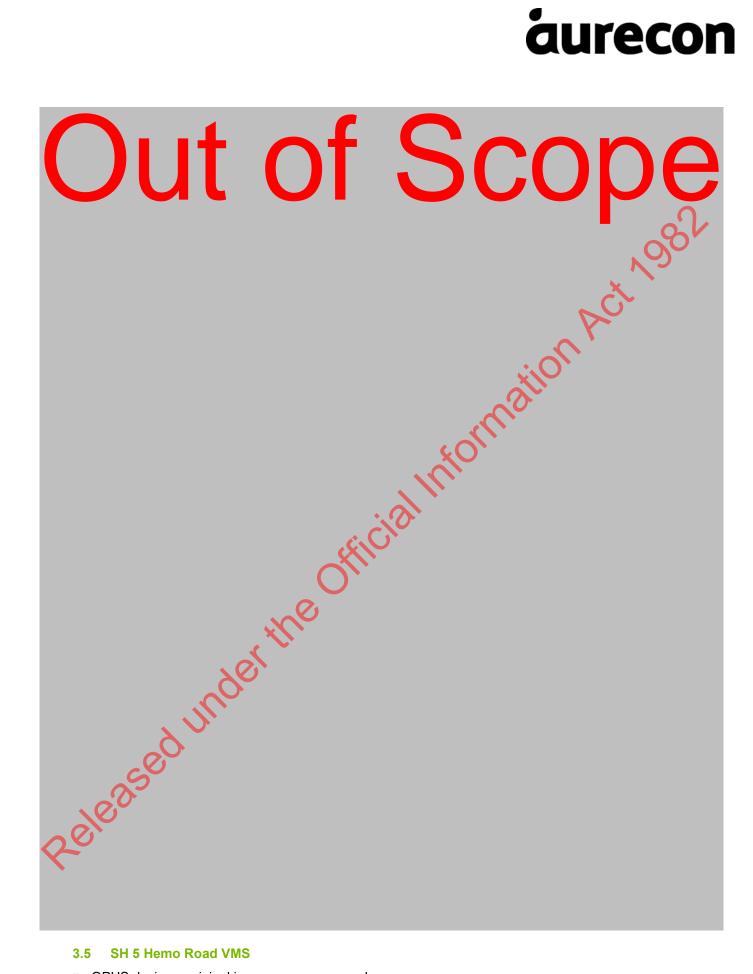




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3.5 SH 5 Hemo Road VMS

OPUS design – original issue was power supply

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Aurecon to follow up with Unison as workshop discussion suggested that transfer of streetlight cable to NZTA ownership and street light upgrade to LED would mean that the VMS signs could be run off the street light circuit • Estimate \$200k based on when

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