

RAA Sinking Pit Cover Assessment

Road being assessed: <u>Richmond Road from Anzac Highway to airport</u>
Direction and number of lanes tested: Eastbound and westbound, all lanes.

Date of assessment: 24-7-2018

Total sites assessed: 65

Total sites exceeding comfort benchmark: 15



Raised plate opposite Hundon Ct

RAA visually inspected all covers that exceeded our calculated comfort benchmark and removed false readings and pit covers that we did not believe to be SA water assets from the list.

Below is the list of 15 sites we believe to be under the care of SA Water, and recorded a high G-Force reading with visual defects causing driver discomfort or danger.

Repair of the plates west of Marion Road will probably see little benefit to road users as the condition of the road is very poor already, and council should address this in the first instance. These locations have still been included in the list below for your information.

Location Description	w/ww	Latitude	Longitude	Direction & Lane	Comment
Just E of Eton Rd	W	-34.94162563	138.5805591	EB RH	
Just E of Railway Tce	W	-34.94173556	138.5780986	EB RH	
Just E of South Road	W	-34.94215372	138.5713825	WB RH	
Intersection with Moss Ave	W	-34.94233461	138.5672104	WB LH	
In front of Rex Hotel	W	-34.94246649	138.564587	WB LH	
Opposite Ubet Driveway	W	-34.94250766	138.5637342	WB LH	
Just W of Grove Ave	W	-34.9425827	138.5621883	WB LH	2 Covers
In front of #216	W	-34.94262388	138.561311	WB LH	
Just E of Sanders St	W	-34.9428881	138.5557627	WB LH	
W of Marion Rd	W	-34.94297783	138.5527819	EB LH	
W of Marion Rd	W	-34.94302385	138.5521124	EB LH	
W of Marion Rd	W	-34.94313205	138.5498756	EB LH	
W of Marion Rd	W	-34.9431899	138.548777	EB LH	
W of Marion Rd	WW	-34.94324328	138.5475196	EB LH	
Opposite Hundon Ct.	W	-34.94337454	138.5452353	EB LH	W of Marion Rd

Please see attached .csv file. Please contact us if a shape file is required for mapping purposes.

RAA have calculated a benchmark comfort G-Force of 0.045G in our test vehicle (2015 Subaru Forester) based on averaging the G-Force of multiple runs over a singular pit cover approximately 50mm deep that was perceived to be uncomfortable when crossed. A verification exercise has been conducted that suggests an error rate of approximately 18% due to road roughness in the vicinity of a pit cover.