

RAA Sinking Pit Cover Assessment

Road being assessed: **Salisbury Highway from Elder Smith Road to Philip Highway**

Direction and number of lanes tested: Northeast-bound and Southwest-bound, all lanes.

Date of assessment: 20-08-2020

Total sites assessed: 128

Total sites exceeding comfort benchmark: 13



Sunken Plate at intersection w Spains Rd

RAA digitally inspected all covers that exceeded our calculated comfort benchmark using dashcam footage 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 13 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.

RAA does not guarantee that this test has identified all defective castings on Salisbury Highway.

Location Description	Latitude	Longitude	Direction/Lane	Comment
Opposite Kellaway St	-34.79129667	138.6154571	NB LH	
Shepherdson Road signals	-34.7881064	138.6183455	NB LH	2 covers
20m N of Ped Xing	-34.78701545	138.6193022	NB LH	
Opposite Bluehills Rd	-34.78460296	138.6214749	NB LH	
Spains Road	-34.77068216	138.6339212	NB LH	
Middleton St	-34.76920796	138.6353283	NB RH	
just before Guerin St	-34.76419738	138.6397116	NB RH	
Spains Road	-34.77077763	138.6339958	SB LH	
Amsterdam Rd	-34.77485048	138.6303367	SB LH	
just before Rotterdam Rd	-34.7763488	138.6290156	SB LH	
Arnhem Ct	-34.778507	138.627063	SB LH	
just S of Kings Rd	-34.77936326	138.6263329	SB LH	4 covers
Shepherdson Road signals	-34.78806822	138.6185338	SB LH	2 covers

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. Covers that exceed this benchmark G-Force are subsequently reviewed with false readings and non-SA Water assets removed from the final list. RAA does not guarantee that this test has identified all defective castings on Salisbury Highway and recommends these results be reviewed and verified by SA Water prior to scheduling works.