RAA Sinking Pit Cover Assessment

Road being assessed: Hampstead Road

Direction and number of lanes tested: Northbound and Southbound, 4 Lanes total.

Date of assessment: 20-12-2017

Total covers assessed: 50

Total covers exceeding comfort benchmark: 7



Pit covers at the intersection of Lorraine Ave

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 7 SA Water pit covers that recorded a high G-Force reading and had visual defects. Where possible we have included whether the cover appears to be a water or wastewater cover and included the possible SA Water ID.

Location Description	Possible SAW ID	w/ww	Latitude	Longitude	Direction/Lane
5m N of North East Road		W	-34.88408667	138.6199017	NB LH
#4 Hampstead Road		W	-34.88344833	138.6198533	NB LH
#8 Hampstead Road		W	-34.883145	138.619836	NB LH
Intersection w/ Collingrove Ave		W	-34.88017835	138.6196317	NB LH
Intersection w/ Grand Junction Rd		W	-34.84728335	138.6173	NB LH
Intersection w/ Lorraine Ave x2	3351881/3351897	W	-34.879074	138.619710	SB LH

Please see attached .csv file "Hampstead Road Covers.csv" using WGS 84 coordinate system for geocoded locations for use in GIS software.

Note: 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.