

# RAA Sinking Pit Cover Assessment

Road being assessed: **Cross Road from Portrush Road to Anzac Highway**

Direction and number of lanes tested: Eastbound and westbound, all lanes.

Date of assessment: 10-5-2019

Total sites assessed: 163

Total sites exceeding comfort benchmark: 19



*Sunken Plate at intersection w Ridge 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 19 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.

| Location Description                 | W/WW | Latitude     | Longitude   | Direction & Lane | Comment  |
|--------------------------------------|------|--------------|-------------|------------------|----------|
| <i>Intersection Mornington Ave</i>   | WW   | -34.9682975  | 138.5507677 | EB LH1           |          |
| <i>Between Maynard Rd &amp; Tram</i> | W    | -34.96822414 | 138.5527995 | EB LH2           |          |
| <i>Just E of Marion Rd</i>           | W    | -34.968125   | 138.5552164 | EB LH3           |          |
| <i>In front of #503 driveway</i>     | W    | -34.96816718 | 138.5561645 | WB LH17          |          |
| <i>Intersection w/ Pine St</i>       | W    | -34.96751506 | 138.5689167 | WB LH14          |          |
| <i>Just E of Railway Tce</i>         | W    | -34.967362   | 138.5721233 | WB LH12          |          |
| <i>In front of #317</i>              | W    | -34.96709391 | 138.5771439 | WB LH11          |          |
| <i>W of Pedestrian Crossing</i>      | W    | -34.96660502 | 138.5867391 | WB LH9           |          |
| <i>W of Deepdene Ave</i>             | W    | -34.96616012 | 138.5953227 | WB LH8           |          |
| <i>Opposite Denning St</i>           | W    | -34.96578372 | 138.6009036 | EB LH11          |          |
| <i>Intersection Unley Rd</i>         | WW   | -34.9653938  | 138.6084886 | EB LH12          |          |
| <i>Intersection Fullarton Rd</i>     | W    | -34.96458437 | 138.6265398 | WB LH3           |          |
| <i>Intersection Hexham Ave</i>       | W    | -34.96442168 | 138.6284039 | EB LH15          |          |
| <i>Intersection Jenkins Ave</i>      | W    | -34.96436724 | 138.6294251 | EB LH16          | 2 covers |
| <i>Opposite Waite Rd</i>             | W    | -34.96406315 | 138.6353943 | EB LH17          |          |
| <i>In front of #26</i>               | W    | -34.96397046 | 138.6373528 | EB LH18          |          |
| <i>W of Ridge Ave</i>                | W    | -34.9639084  | 138.6383226 | EB LH19          |          |
| <i>Intersection w/ Ridge Ave</i>     | WW   | -34.96389318 | 138.6387225 | EB LH            |          |
| <i>Southern Cross Care driveway</i>  | W    | -34.96386797 | 138.6391223 | EB LH            |          |

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.