

PSM5665-047E Monitoring update 26 February 2025

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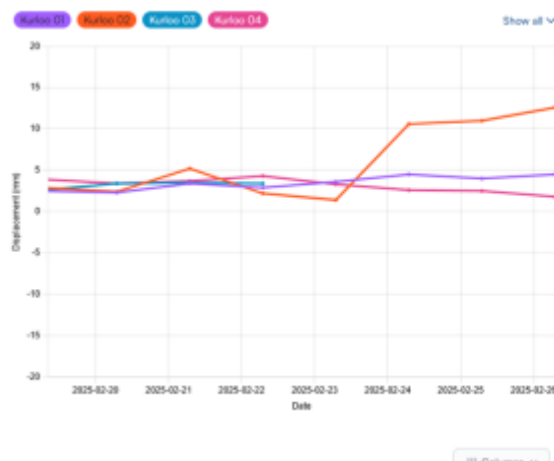
Hi Derek,

The monitoring systems installed to date include radar, tilt sensors, GPS sensors and prisms.

The monitoring data generally indicates that:

- ☐ * Creep of the landslide head scarp on 6 and 10 to 12 View Point Road is ongoing. i.e. the landslide is active. The rate of relative creep measured with the radar has decreased from late January 2025 when we observed up to 10 mm/day to approximately 3 mm/day in late February 2025. These numbers are relative to the radar and need to be calibrated with regards to ongoing prism monitoring.
- ☐ * The GPS sensor immediately adjacent to the retaining wall on 10-12 View Point road supports that localised creep is occurring, Inset 1. However, it indicates the movements are increasing in this area (accelerating trend rather than a slowing trend observed on the radar). Note this area is in a blind spot of the radar.
- ☐ * Radar, tilt and GPS sensors all support that the immediate vicinity of the landslide headscarp is subject to creep.

Tilt sensor locations are provided in Inset 2.



Inset 1 – Excerpt from GPS sensor system





Inset 2 – Excerpt from Tilt sensor system

Note that:

- ☐ * All the monitoring data has been observed during a period of relatively low to no rainfall and very little irrigation by property owners (owing to the obvious evacuation)
- ☐ * Visual inspections indicate that localised fretting and rilling of the sand/gravel immediately around the retaining wall and headscarp is ongoing and expected to continue given the sandy nature of the surficial soils. In early February 2025 a parasitic failure of part of the retaining wall on 10-12 View Point Road occurred
- ☐ * Tilt monitoring systems on other properties are in the process of being calibrated against total station surveys of a prism array that has been installed. This is expected to take a further two weeks as repeat weekly surveys are conducted. This calibration does not stop the tilt sensors from being useful to inform temporary access under the current risk assessed proposal from MPSC
- ☐ * We are in the process of developing a weekly summary which will include a plan with the installed instruments. We expect to be able to issue this next week.

Regards,

Dane Pope

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