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# SITE VISIT RECORD

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Sheet No. 1 of 9

Contract: Mauao Base Track Geotechnical Monitoring

Inspection No: 4

Project Number: 2-9B463.01

Work Site: Mt Maunganui Base Track

s 7(2)(a) - Privacy

Day &amp; Date of Visit: 27/08/20

Arrival Time: 3.30pm

Departure Time: 4.30pm

**Weather and Site Conditions:** Showers and fine periods on the day. Previous rainfall events for August included 18mm recorded on 19th August, and 33mm recorded over the 23 - 24 August at (Tauranga Airport rain gauge, Metservice record).

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## Site Inspection Notes – Track level

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### General observations

- Refer to Figure 1 for locations of drains / culverts.
- The track condition was overall in the same condition as the previous visit on 02/08/20, with the exception of minor ponding on the track slightly east of the slip (Photograph 1), and drain clearing around Culvert 02 (Figure 1, Photograph 2).
- The culvert at the western end of the track has been dug out recently (Photograph 2) as recommended in the previous site inspection. This will allow better flow through the culvert.
- Overall, the drainage system appears to be performing well. Water is being efficiently drained from the slope above the track to the culvert beside the track. The green filter socks collecting this water at the base of the slip were draining efficiently.
- Photos from this inspection and the first inspection (02/06/20) are compared to monitor changes in the attached site photographic record.

### Track Condition

- The repaired track was moist, while the drain running below the cut slope was wet, showing that water is being efficiently collected in the culvert and not accumulating on the track. No ponding was observed except for minor amount just to the east of the slip on the repaired track (Photograph 01).
- The geometry of the track still has a reverse grade to the swales that lead to the culvert inlets. No cracking or deformation was observed on the track.
- There were no changes to the slope above the repaired track, with the exception of the small amount of erosion occurring around horizontal drain 3 (HD03, Figure 1). The level of erosion around this pipe has not changed since the last site inspection on 02/08/20.

### Culverts and Swales

- All drains appear to have been cleared recently, most likely following heavy rain on the 23rd August. Culvert 02 has been cleared of silt material that was observed in previous site visits. All grates entering the culverts were clear.

### Horizontal Bored Drains

- Horizontal drains HD01 - HD03 (Figure 1) on the slope above the repaired track were checked. There was a steady stream of water coming out of HD01

(Photograph 5). Horizontal drain O2 and O3 (HD02 and HD03, Figure 1) were both dripping / streaming steadily (Photographs 6 - 8).

- The scour around drain HD03 appeared to be in the same or similar condition as when last checked on 02/08/20. We will continue to monitor and will complete a site visit next month to determine whether the geogrid needs some extra pins so that it is attached to the soil face (preventing further erosion).
- At the bottom of the slope HD05 and HD07 were both dripping steadily, while HD04, HD06, HD08 and HD09 were not dripping.

### Observations of the slip scarp

- On the slip scarp itself there were no signs of soil nail deformation / movement.
- Just below the slip scarp, the debris from the auger spoils is still slowly moving towards the base of the slope.
- A minor amount of grass is starting to grow on the slip face.

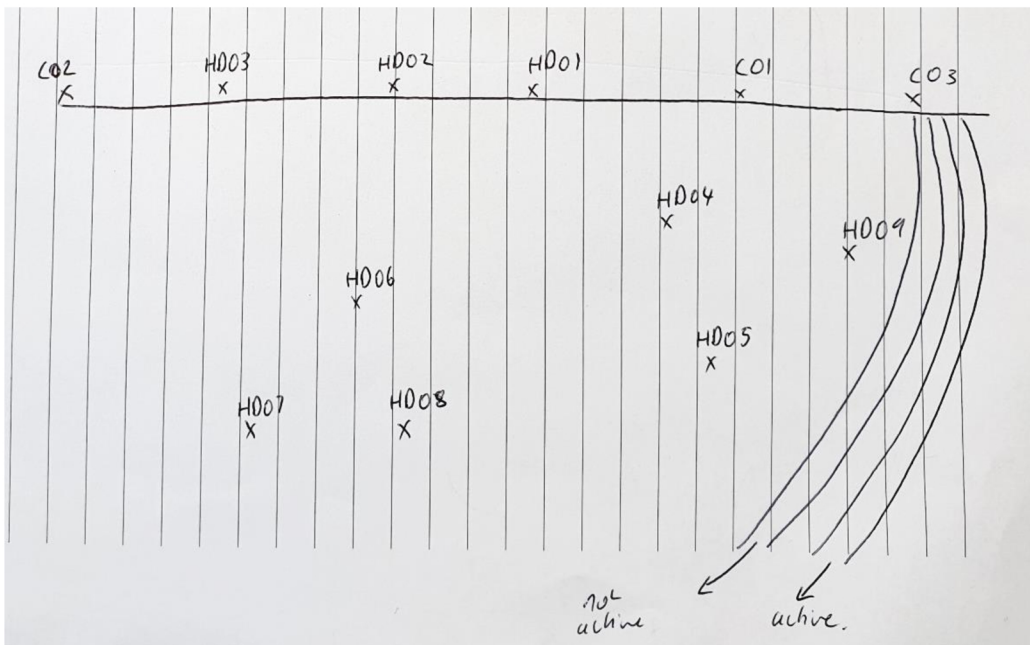
### Observations at Toe of Slope

- There were no signs of wave / water erosion of the toe of the slope or between the toe of the slope and debris remains.

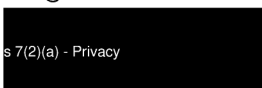
### Observations of the Pohutukawa Tree on the west side of the slip

- The minor amount of scour around the roots of the Pohutukawa Tree at the western edge of the slip appears to be stable - erosion of this area has not increased despite recent heavy rain (Photographs 9-10, 14-15).

Figure 1 - diagram of site



Signature:



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## Site Photographic Record - Mauao base track slip



Photograph 1 - At the start of the track looking west - minor ponding on the track.



At the start of the track looking west. Photograph 1 (top) was taken on 27/08/20. Photograph 2 (bottom photo) was taken during the first inspection on 02/06/20.



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**Photographs 1 & 2**

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Photograph 3 (top left, taken on 27/08/20) and Photograph 4 (top right, taken 02/08/20) showing Culvert 02 (C02, Fig. 1).



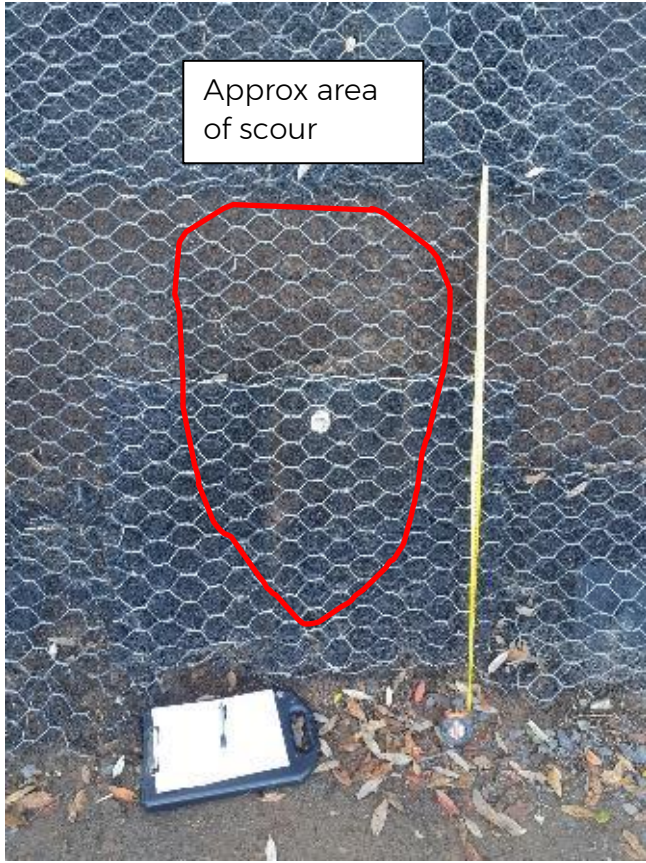
Photograph 5 (left): Water steadily flowing from horizontal drain 01 (HD01). Photograph 6 (right) horizontal drain 02 (HD02) dripping steadily.



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Photographs 3 - 6

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Photograph 7 (above left) horizontal drain 03 (HD03) and approximate area of scour associated with it. A zoomed in picture of the drain is shown in Photograph 8 (above right).



Looking west across the slip face. Photograph 9 (above left) – taken during the first inspection on 02/06/20. Photograph 10 (above right) was taken on 27/08/20.



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Photographs 7 - 10

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Looking at the bare face at the western end of the track. Photograph 11 (above left) - taken during the first inspection on 02/06/20. Photograph 12 (above right) was taken on 27/08/20.



Photograph 13 - looking from the west side of the reformed track to the eastern end of the track.



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**Photographs 11 - 13**

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Photograph 14 (left, 29/06/20) and Photograph 15 (right, 27/08/20).  
Looking up from the base of the slip towards the Pohutukawa tree.



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**Photographs 14 - 15**

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View of slip face from bottom of slope. Photograph 16 (top) was taken during the first inspection on 02/06/20. Photograph 17 (bottom) was taken on 27/08/20.



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Photograph 16 &  
17

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Looking towards the slip from the tidal platform. Photograph 18 (top) was taken during the first inspection on 02/06/20. Photograph 19 (bottom) was taken on 27/08/20.



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**Photograph 18 & 19**

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**Mauao Base Track Inspections**