

Monday 10 July 2023

OIA IRO-443

Name: [REDACTED]

Email: [REDACTED]@hotmail.com

Kia ora [REDACTED]

Official information request for a geotechnical engineers' report.

Thank you for your official information request dated Thursday 15 June 2023. You requested a geotechnical engineer's report following a slip occurring at 10 Matai Terrace, Eastbourne.

The Local Government Official Information and Meetings Act 1987 (the Act) requires that we advise you of our decision on your request no later than 20 working days after the day we received it. Unfortunately, we cannot meet the timeframe and must therefore extend the time to make our decision to Friday 28 July 2023.

We are extending this request in accordance with [Section 14\(1\)\(b\)](#) of the Act to allow key officers time to review the draft response and material for it.

You have the right to seek an investigation and review by the Ombudsman of this decision. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Ngā mihi,

[REDACTED]

Governance Coordinator

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www.wellingtonwater.co.nz

Our water, our future.

Friday 28 July 2023

OIA IRO-443

Name: [REDACTED]

Email: [REDACTED]@hotmail.com

Kia ora [REDACTED]

Official information request for a geotechnical engineers' report.

Thank you for your official information request dated Thursday 15 June 2023. You requested a geotechnical engineer's report following a slip occurring at 10 Matai Terrace, Eastbourne.

We have considered your request in accordance with the Local Government Official Information and Meetings Act 1987 (the Act) and determined that we are able to grant your request in part.

The information you have requested is enclosed in our email to you. Pursuant to [Section 7\(2\)\(a\)](#) of the Act, some of the information has been withheld as it is personal information about private individuals.

You have the right to seek an investigation and review by the Ombudsman of this decision. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Ngā mihi,

[REDACTED]
Acting Group Manager, Customer Operations Group

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[REDACTED]

From: [REDACTED]@engeo.co.nz>
Sent: Thursday, June 15, 2023 2:34 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: [EXTERNAL] FW: REVIEW - Email for Matai Tce Slip Assessment
Attachments: 21700.000.008 - 10 Matai Terrace Site Location Plan.pdf

Hi [REDACTED]

ENGEO visited the site at 10 Matai Terrace in Eastbourne on 9/06/2023, to observe a landslide that had occurred in the days prior. We have provided a site location plan which is attached to this email.

We made the following observations:

OBSERVATIONS

- The landslide had occurred approximately 9 m upslope from Matai Terrace, towards the north-western side of the dwelling at 10 Matai Terrace (Figure 1). The landslide scarp was approximately 2 m wide, and approximately 3 m in length. It appeared that the failure had occurred over a relatively small area, and then deposited the debris down the 9 m bank. The natural slope was resting at approximately 45°.
- The failure was shallow and had occurred within the silty colluvial soil. No bedrock had been exposed under the failure.
- The landslide had occurred underneath, and around a service pipe. We were informed by the homeowner that this was a waste-water pipe, that had been installed around 2 years ago. We understand that when the service pipe was installed, a trench was dug, and later backfilled around the service. The homeowner showed us photos of the trenches. This new service was installed to replace the original waste-water service at the crest of the slope, which we understand was suitably blocked at the time with concrete or similar (Figure 1). We understand that the service from the rear of the house (solid white line in Figure 1) was extended to meet the new service pipe down the bank (new service dashed white line), although we can not find a record of this on council service maps.
- We understand that cracks had begun appearing in the slope in the week prior to the slip occurring and were shown photos by the homeowner. It appears that the landslide has propagated from the bottom of the two observed cracks (tension crack), the top-most crack is still visible within the slope.
- Some saturated soil had accumulated on the slip face, that appeared to have been water transported (Figure 2). No running water was observed, however. It is possible that the concavity of the slip face has concentrated rainwater flow in this area, or it could be that there is a hidden water source such as a leaking pipe. We were informed by the homeowner that they filled their bathtub and drained it, and that no extra water was observed flowing over the slope.
- Less than 1 m³ of debris was observed at the base of the slope, in the vegetation next to Matai Terrace, and on the road.
- Highly Weathered Greywacke Rock was observed behind the house, at the back of the lawn area at the crest of the slope. We also observed Moderately Weathered Greywacke Rock outcrops to the immediate east of the slip, down on Matai Terrace.

DISCUSSION

- It is likely that the section of the slope that has cracked will fail soon, possibly the next time it rains. This could be another 0.5 m³ – 1.0m³ of material, that may impact the service pipe on the way down the slope.
- Given the location of the previous trenches dug for the service, it is likely that much of the material that has failed was the backfill placed around the pipe. The failure of this material could also have caused some of the natural material to fail as well.
- It is likely that high rainfall in the weeks prior to the landslide have contributed to the slope failure.

RECOMMENDATIONS

- The section of ground that has cracked could be removed in a controlled fashion, to prevent it from failing suddenly and impacting the service.
- The slope should continue to be monitored for further signs of instability. This may take the form of ground cracks opening in a similar fashion to what was observed prior to the most recent slip, particularly after heavy rainfall or seismic events.
- Care should be taken to prevent water flow being concentrated over the landslide.
- Planting of small trees or shrubs on the surface of the slip will help to stabilize the slope and reduce the likelihood of future shallow landslides along with hydroseeding and contouring of the landslide area.
- The stability of the service should be observed by the appropriate stakeholder, and some form of support for the service pipe may be necessary or relocating of the service.

Figure 1: Site Location Plan



Figure 2: Slip Scarp

Tension Crack



Slip Scarp

Figure 3: Landslide from Matai Terrace



Thanks for your time, please let us know if you would like us to put together a more comprehensive report, including a slip assessment matrix.

ENGEO







NEW ZEALAND / AUSTRALIA / UNITED STATES

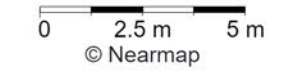


Level 18, 2-6 Gilmer Terrace, Wellington 6011
<http://www.engeo.co.nz>

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- Legend**
-  Landslide Debris
 -  New Service - Currently Exposed
 -  Assumed Old Water Connection
 -  'Private Water Asset'
 -  Site Boundary
 -  Extent of Slip Scarp



Produced by Datanest.earth

Title: Untitled Figure		
Client: Hutt City Council		
Project: 10 Matai Terrace, Eastbourne	Drawn:	Figure No.: 1 Size: A3
Date:	Checked:	
Proj No.: 21700.000.008	Scale: 1:184	Version: