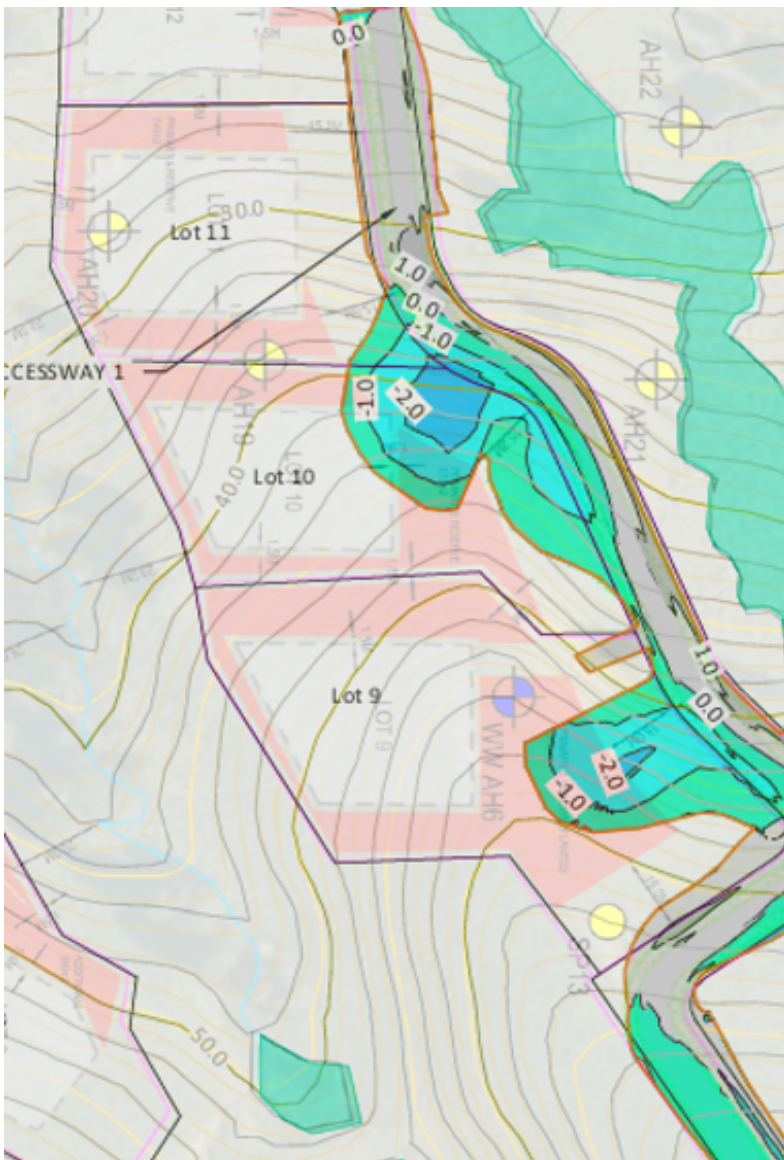


Subject: Re: Goodland Coastal Farm
Date: Friday, 16 May 2025 at 4:16:34 PM New Zealand Standard Time
From: Thomas Rishworth
To: Zoe Avery, Andrew Green, Zibo Yang, Sarah.Budd, Geraldine Bayly, Mike Nixon
CC: Hari Hari, jacob, jason, Dean Hoo, vaughan, Ram Arumugam, glenfarley, ray@gracefarm.co.nz
Attachments: image001[74].png, image.png, Outlook-Akl 2014 E.jpeg, Outlook-all logos.png, Outlook-1xjvew5u.png, Outlook-ic2dqgew.png

Hi Zoe,

As discussed, the potential wastewater dispersal areas on Lots 9 and 10 encroach within cut (excavation) earthworks up to 2.0m deep, as indicated in the overlay figure below:



Reviewing the investigational boreholes drilled within this area, these indicate similar soil characteristics from surface to deeper that the maximum cut depth of 2.0m. In addition, **NO** groundwater is expected within 900mm of the proposed excavation depths. Therefore, we consider the proposed ground surface to be in alignment with the assumptions made in the wastewater assessment.

To further ensure the suitability of the exposed soils, we recommend the following measures are undertaken during the site formation earthworks of the subdivision:

1. **Use of Lightweight Construction Equipment:** To prevent compaction of the exposed in situ soils, we recommend the use of lightweight construction equipment be used within the cut that encroach into the proposed wastewater dispersal areas.
2. **Surface Preparation:** To prevent shortcutting pathways between a smoothed cut surface and the topsoil placed above, we recommend that the cut surface be scoured/roughened with any striations perpendicular to the slope face.
3. **Topsoil Spreading:** The proposed 250mm topsoil spreading, as outlined by Crang Civil, is considered appropriate.

Please let me know if you require any further information or clarification on these recommendations.

Kind regards,

Tom Rishworth

Engineering Geologist
BSc(Hons), MSc, MEngNZ



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