



9 April 2024

Shay McDonald  
Otago Regional Council  
Private Bag 1954  
Dunedin 9054

Sent via: Shay.McDonald@orc.govt.nz

**Response to additional Section 92 questions regarding Gas Venting and “piggyback” liner: Consent Application RM21.668 – Mt Cooee Landfill, Balclutha**

Dear Shay,

Thank you for the additional questions we received following our meeting on 1 February 2024 in relation to Clutha District Council’s resource consent application RM21.668 to renew resource consents associated with the Mt Cooee Landfill in Balclutha.

Please find our responses to your questions below.

**Gas venting beneath the “piggyback” liner**

Peer reviewers for the Mt Cooee Landfill consent application (Tonkin & Taylor Ltd) have requested details of the proposed gas venting beneath the “piggyback” liner sections for the Mt Cooee landfill extension.

The gas venting will generally consist of the following:

1. Gas vents and gas evacuation subsoils (rectangular HDPE box section strip geofabric wrapped e.g. “Megaflo Green” or equivalent) are to be installed immediately below the piggyback liner and shall be in accordance with the manufacturer’s recommendations. Gas drains shall generally be in a grid pattern (spacing not greater than 7m x 7m) diagonally up the slope. The gas drainage subsoils will vent into a collector trench located at the top of the slope. This would consist of a slotted 110mm HDPE in a fabric wrapped gravel surround. The venting of this trench will need to be designed at the time of construction of the slope and piggyback liner. It will be integrated with the gas collection system for the new landfill cell, vented out to the batter or penetrate through the piggyback liner as most appropriate to the geometry and other infrastructure.
2. These details are shown indicatively on the updated design plans which have been attached to this letter.

If you have any queries or require further information, please contact me (phone 03 373 2031 direct or email [aileen.craw@wsp.com](mailto:aileen.craw@wsp.com)). I look forward to your response.

Kind regards,

Aileen Crow  
Senior Planner