

# **Attachment 4**

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Generally Agreed Backfill Design





- Fill Placement Criteria:**
- Visual monitoring of the working batters conducted by suitably experienced site personnel, terminal and rehabilitated slopes conducted by suitably experienced site personnel should be at a maximum four-week interval and continue for at least six months following closure.
  - If any visual signs of cracking, slumping, increased seepage, or other geotechnical issues are observed, a geotechnical engineer should be contacted in order to implement the necessary engineering controls (where required).
  - Surficial erosion needs to be managed once the final landform concept is developed and should be assessed against appropriate industry guidelines.
  - Surface water should be suitably managed (i.e., using suitable systems) to prevent uncontrolled water flows and minimise the potential for soil erosion.
  - Management of surface water and groundwater is a key component of geotechnical risk management, as excess build-up of pore water pressures as a result of uncontrolled / excessive surface water ingress can trigger instability in otherwise stable batters. Where changes in ground and groundwater conditions are encountered, a geotechnical engineer should be contacted.

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 CREATED: 17 August 2023  
 JOB SUB #

REV	DESCRIPTION	DATE	BY
1	Note 'Final Design Subject to Review' added	17-08-2023	JHV

Data Sources:  
 Topography: Groundwork Plus UAV Survey, Captured 2023-05-29  
 Topography: Groundwork Plus UAV Survey, Captured 2023-05-29, DSM 1m  
 Cadastre: © The State of Queensland (DNRME) 2019  
 Ecosystem:  
 Other: Background Photography: © The State of Queensland (DNRME) 2019  
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**Legend:**

- Site Boundary
- Cadastral Boundary

**NOTE: Final Design Subject to Review**



PROJECT: Bromelton North  
 CLIENT: Neilsens Quality Gravels Pty Ltd

TITLE: Backfill Design - Option 1  
 SCALE: 1:2,000  
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