

## Attachment-4-3-7-Waste Storage Capacity Calculations

### 1. Imported/ Recovered Waste

There shall be two types of waste storage onsite including storage of imported fill and storage of quarantined imported filled. The maximum amount waste that may be stored on site is as follows:

- 5,600 tonnes of imported soil may be temporarily stored within the existing quarry void; and,
- 720 m<sup>3</sup>/ 1,152 tonnes of quarantined waste (non-inert soil and stone).

It is expected that there will be minimal stockpiling and storage of imported soil. It is proposed that under normal circumstances that imported soil shall be unloaded at the filling area and used immediately in restoration works. The filling area will be the current location where active restoration works are taking place at the time.

Where stockpiling of imported soil is required due to unexpected circumstances, a maximum quantity of 5,600 tonnes of imported soil may be temporarily stored within the existing quarry void, if required. This figure has been calculated based on 2D modelling of the available space within the existing quarry void. Soil will be stored in stockpiles on the North section of the existing quarry floor as indicated in the *Attachment-3-1-Site Plan*. As soon as practicable, soil temporarily stored within the existing quarry void shall be moved to the active restoration and used as fill.

2D modelling was undertaken to assess the available space remaining within the existing quarry floor for storage of imported. It is estimated that an approximate area of 1000m<sup>2</sup> is available for temporary storage of imported fill, where required. Based on a proposed storage height of 4 m proposed for this material it is estimated that approximately 3,500m<sup>3</sup> (5,600 tonnes) may be stored in this area.

Where imported inert soil is found to contain extraneous, non-hazardous or hazardous material then it will be segregated and removed to the quarantine area for closer inspection and classification. The quarantine area will be located on the North section of the site as indicated on *Attachment-3-1-Site Plan*. The quarantine area comprises a concrete hard standing, separated into 4 no. bays by walls approximately 3m in height. Each bay is 6m in length and 10m wide, giving a total area for storage of approximately 240 square meters (720 cubic meters)/ 1,152 tonnes). It is estimated however that due to the stringent pre-acceptance and waste acceptance procedures that less than two loads of material (<40 tonnes) will be quarantined.