

Attachment-4-3-8-Landfill Calculation Explanation

The online application form under Section 4.3 (Waste Activities) heading Landfill only allows for inputting data relating to one landfill structure. As per this IED Licence application, approval is being sought for additional landfill capacity to allow the continued landfill activity at the Drehid WMF site. The data input to the online application form refers to the existing MSW Landfill which is currently operational. The required information for both the existing and proposed additional landfill capacity is provided below:

Existing Non-hazardous Landfill:

	Quantity in tonnes	Void in cubic metres	Date of Measurement
Waste deposited to date	6,907,755	4,830,598	December 2023
Total waste to be deposited over lifetime of development (including total deposited to date)	7,207,200	5,040,000	

Density of compacted waste used is 1.43 tonnes/m³ based on current site experience, incoming waste tonnages (weighbridge) and void space filled.

Proposed Additional Landfill Capacity:

	Quantity in tonnes	Void in cubic metres	Date of Measurement
Waste deposited to date	0	0	Not Applicable
Total waste to be deposited over lifetime of development (including total deposited to date)	8,627,500	7,250,000	

Density of non-hazardous waste used is 1.19 tonnes/m³ which is estimated from various waste types proposed for disposal in the landfill.