

Attachment-4-3-1-Storage of Waste and Other Materials (Supporting Information)

Storage of Waste and Other Materials:

Storage Area	Tonnes	Details
Waste accepted and in storage pending treatment		
Non-Haz Waste Quarantine	210	Area of c. 15m x 5m and 4m height. MSW incoming density of 0.7 T/m3
Non-Haz Waste Inspection	210	Area of c. 15m x 5m and 4m height. MSW incoming density of 0.7 T/m3
Compost Facility Bunker	900	Incoming waste 90,000 TPA, 3 days storage capacity (300 days operation per year)
Ash Solidification	484	10 no. silos at 78m3 each. FGTR/Fly Ash density of 0.62 T/m3
Haz Waste Storage and Quarantine	648	Building internal area of 30m x 9m and 2m height - Typical incoming haz waste density of 1.2 T/m3
Haz Waste Handling Building	960	Building internal area of 20m x 20m and 2m height of waste - Typical incoming haz waste density of 1.2 T/m3
Engineering Material Storage Area	60,000	Storage requirement for recovered landfill construction and capping material
Subtotal	63,412	
Other materials (non-waste) accepted, including non-waste feedstocks		
Ash Solidification - cement	237	2 no. silos at 78m3 each. Cement density of 1.52 T/m3
Ash Solidification – chemical additive	15	1 no. tank at 15m3 capacity.
Subtotal	252	
Capacity of treatment chambers and vessels		
Compost Facility – compost tunnels	5,467	22 no. tunnels with a total floor area of 3,264 m2. Material height of c. 2.5m and density of 0.67 m3/tonne
Compost Facility – hygenisation tunnels	726	6 no. tunnels with a total floor area of 434 m2. Material height of c. 2.5m and density of 0.67 m3/tonne
Ash Solidification – mixing unit	3	Typical capacity of ash mixing unit
Subtotal	6,196	

Treated waste, whether classified as waste or not		
Recovered metals from IBA	60	Typically, 3 no. 20m3 ISO containers for collection of recovered metals.
Subtotal	60	
TOTAL	69,920	

The above quantities are based on the maximum available storage capacity in the various facilities at the site. The actual quantities stored in any of the above locations are likely to be considerably less than outlined above at any one time. In particular, the compost facility will not operate with maximum quantities of biodegradable waste stored in each of the compost tunnels at any one time and, currently, it is not proposed to utilise the hygenisation tunnels for composting. Additionally, the quarantine areas will not be permitted to be filled to capacity and where quarantined material is required to be removed off-site, it will be done so as soon as possible in accordance with the Waste Acceptance Procedure.

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