

E Waste Acceptance and Handling

E.1 Existing waste types and quantities

The operation is currently operating under the terms of a Waste Permit (No. WP TN 08) that was issued on 2nd August 2002. The facility is composting household green organic wastes, sewage sludges and commercial green wastes. In 2003, 2264 tonnes of biodegradable wastes were composted comprising 1000 tonnes of household green organic wastes, 600 tonnes of sludges and 663 tonnes of commercial organic wastes. The operating hours of the facility are between 7.00 to 18.00 Monday to Saturday.

E.2 Proposed waste types and quantities

The waste to be accepted at the site will comprise non-hazardous biodegradable organic waste materials. The proposed waste types and quantities are listed in Table E.2.1 of the Waste Licensing Application Form.

E.3 Waste acceptance procedures

When the waste arrives at the site, the truck and contents are weighed on the weighbridge before the contents are deposited in the concrete-surfaced tipping bay, in the waste reception building. Each load is examined to ensure that there are only biodegradable materials present. The details recorded at each delivered load include: date and time, the name of the haulier, the vehicle registration, the name of the company providing the organic waste, the waste type, the laden weight, the empty weight and the drivers signature.

If a load appears to contain unacceptable levels of inorganics, it will be reloaded and not accepted at the facility. If there are only small amounts of inorganics present, these will be separated out at the screening phase of the composting process and will be stored in a rejection bay. A materials rejection bay will be available at all times.

E.4 Waste handling

The operational procedures practiced at the facility ensure that all waste is committed to the composting process on the day that it arrives on-site. After the initial inspection, the waste is currently mixed mature compost and amendment material and windrow composted. When a sufficient number of the tunnels are completed, the vermicomposting process proper will be used

instead of windrow composting. At the start of this process, the organic wastes will be passed through a fan separator to divide the liquid and solid fractions. The liquid fraction will be treated in pasteurisation tanks and the solid fraction, which retains sufficient moisture to commence the composting process will be mixed with wood chippings and seeded with some mature compost. The waste then becomes part of the composting process and this process is described in Attachment D2.

E.5 Raw materials and energy

At present diesel is the only fuel used on site. This is used by all the machinery operating on the site plus all the electricity is generated from three diesel generators. Currently, approximately 1000 litres of diesel is used weekly.

The incoming biodegradable organic wastes will be mixed with mature compost and other dry amendments, primarily timber peelings and sawdust.

Raw Material – Composting process	Use	Tonnes per annum
Household green waste collected by or on behalf of a local authority MSW.	For composting	10,800
Commercial green wastes.	For composting	4,500
Sewage sludges	For composting	2,700
Timber peelings / sawdust	Amendment material	2,000
Mature compost	Amendment material, recycled back into process.	50% of all final compost produced

Raw Material – Energy	Usage	Storage
Electricity	3-phase supply	
Diesel	24,000 litres per annum	2,000 litres
Hydraulic oil	600 litres per annum	50 litres
Water		Groundwater well & Storage tanks

Electricity	wattage	Loading
Aeration blowers	20 x 1000 watt	20 kW
Lighting	16 x 120 watt	2 kW
Leachate pumps	20 x 700 watt	14 kW
Extractor fans	20 x 1000 watt	20 kW

E.6 Plant

The details of the plant that is used on the site comprises:

- 1 Hyundai 750L loading shovel, 13 tonne diesel
- 1 Venerie 930i loading shovel, 11 tonne diesel
- 1 Matbro teleporter, 9 tonne diesel
- 3 Generators, 700 KVA diesel
- 1 Trommel screener, electric
- 1 John Deere 3050 tractor, diesel
- 3 tipping trailers
- 18 electric fans, 2.5 KW electric
- 1 Fastrac tractor, diesel
- 1 skip trailer and various skip
- 1 Dawoo digger, 17 tonne household green organic wastes

The plant will be upgraded and replaced / renewed where applicable to ensure the efficient and economical running of the site, bearing in mind that all satisfy the required EU noise parameters and emission limits. All the plant and equipment is professionally maintained and a full service record is kept on each piece of equipment.

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