

Facility Name	McGill Environmental Systems
Location	Ballinvoher, Castletownroche, Co. Cork
Waste Permit or Waste Licence Number	CK(S)302/06
Animal by Product Approval Number	n/a
Tonnes Capacity of Facility/Year (Built today)	10,000
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Which Type of Facility?	
Garden & Landscape Materials	No
In-vessel Bio waste Facility	Indoor Facility
Mixed Waste/MBT Facility	No
Description of Composting Facility	
<p>McGill composts non-hazardous industrial and sewage sludges, waste fruit and vegetables, and other non-hazardous biodegradable materials. McGill will compost any biodegradable material provided it meets stringent regulatory requirements as well as McGills own waste acceptance criteria.</p> <p>McGill operates an industrial composting facility using a controlled, aerated static pile system with temperature feedback control. All processing takes place completely indoors in an insulated environment, maintaining an atmosphere with a continuous negative pressure. The incoming sludges are mixed with dry finished compost and other dry amendments. The amendments used are sawdust, chopped straw and woodchips. These supply a carbon energy source to the microorganisms. The waste materials, namely biosolids, are a nitrogen source. The carbon to nitrogen ratio is an important factor in determining the correct composting conditions suitable for high rate aerobic composting.</p> <p>In the automated forced aeration system, air is blown from the underside of the static pile of composting material towards the exterior of the mixture. The system maintains a temperature ceiling of greater than 55°C by means of the on-demand removal of heat by ventilation through temperature feedback control. This encourages a high decomposition rate since significantly higher temperatures inhibit and slow down decomposition by reducing microbial activity. After the initial phase of high rate composting, the material cools to ambient temperatures before its subsequent use as a stabilised finished product.</p>	
Feedstocks Accepted at this Facility	
Garden/landscape Materials	Yes
Brown Bin materials	No
Sewage Sludge	Yes
Mixed Waste/MBT Materials	No
Other materials	Industrial Sludges Pharmaceutical Sludges