

GFL - ENVIRO-SMART ORGANICS LTD., DELTA, BRITISH COLUMBIA



The Enviro-Smart Organics Ltd. facility is located in Delta, British Columbia. It is currently designed to process 200,000 tonnes of organic waste materials from the lower mainland region.

The site has a covered aerated static pile composting operation that uses either a positive aeration or a reversing aeration sparger floor (capable of both positive and negative aeration). The sparger floor uses a high pressure sparger nozzle system that provides both positive and negative pressure to remove clogs in their trench system.

Organic waste materials that they receive include: food waste, leaf and yard waste and organic food waste from industrial and commercial facilities. De-packaging and shredding of organic waste material received at the site is conducted indoors.



The positive aeration composting process pushes air into the piles through a series of fans which push air through ports in the floor of the building to allow for aeration. The building is closed on three sides. Finished compost is applied to the surface of the piles to reduce odour.

The reversing aeration sparging building uses aeration of the piles which is either positive or negative. When piles are being built, air is pushed into the piles. Otherwise air is generally pulled out of the piles and directed to a biofilter. The biofilter uses a wood chip media and is housed within a three sided enclosure.



Curing is done outdoors and is uncovered. Upon completion of curing, finished compost is blended with sand to generate turf mix and other mixes that are defined by the customer. Trommel screens are used for mixing compost with sand to generate the various mixes required by their customers.

There is a stormwater pond at the site which is equipped with an aeration system.