

Gritbuster®

www.siltbuster.com



ROAD SWEEPER AND GULLY WASTE TREATMENT AND RECYCLING

Introducing our new treatment system for the processing of material from road sweeper and gully waste and from other wet waste streams.

This innovative, relocateable, modular system separates coarse and fine sized particulates, removes organic matter and road debris, washes the material and then dewateres to produce materials for reuse, recycling, resale or disposal.



Physically separates :

Oversized material
(debris and mineral particles)

Sand & Gravel
(typically +100µm to -10mm)

Organic Matter
(+1mm to -10mm)

Wash Water
(plus fine solids)

Manufactured on an ISO Frame based platform, this compact system can be sited on existing Waste Transfer/Disposal Sites yet can be easily mobilised and demobilised by HIAB lorry offering flexibility for “campaign” based cleansing operations.

Separates - Washes – Dewateres – Recycles – Reduces Landfill Tax Costs & Saves Money

Module 1 Accepts Road Sweepings & Gully Arising
straight from the truck

Recoverable Sand & Gravel
(typically
+100micron to
minus 10mm)

Oversized material
(debris and
mineral
particles)



Fine Organic Matter
(+1mm to minus10mm)

Wash Water
(plus fine solids) reports to
Module 2 for Treatment &
Recycling

MODULE 1 – Reception and Coarse Fraction Separation Module

Module 1 is the heart of the process and accepts road sweepings and gully arising straight from the truck. The arisings are transferred from the reception hopper, by bucket wheel into a rotating screen where it is washed and separated into a coarse (+10mm) and fine (-10mm) fraction.

The fine fraction is then processed further to separate fine organic matter from the sand/gravel fraction which is dewatered and conveyed out of the unit for reuse or disposal.

The Module can process a range of feed consistencies from dry, semi dry to wet arisings at a rate of 10 to 15 tonnes per hours and comes complete with access ramps for above ground installations, if required.

MODULE 2 - Water Treatment and Fine Solids Dewatering Module

Module 2 comprises a package water treatment plant designed to remove fine suspended solids from the wash water so the water is sufficiently clean for re-use or discharge to sewer.

The dirty wash water pumped from Module 1 is pre-treated with coagulant/floculant before it enters a Siltbuster clarifier for solids liquid separation. Settled solids are recovered from the base of the clarifier as a concentrated slurry and pumped to a sludge holding tank. The treated water flows to a treated water storage tank to be recycled back to Module 1 for material washing or to refill gully trucks. Surplus water can be discharged to sewer.

The concentrated fine solids slurry produced by the water treatment plant are dewatered by means of a filter press, mounted on top of the containerised water/sludge holding tank.



For Hire, Sales or more details Call *Siltbuster* on 01600 772256