

Waste Recycling

Skip Waste Sorting Line

Overview

To design, manufacture and install a new waste separation line to reduce the levels of waste sent to landfill.

Problem

With demands on reductions in the amount of waste being diverted to landfill, the client required some solutions to improve their waste sorting process.

Solution

GAME designed a flow process to show how a new waste sorting and separating line would work. The new line incorporated an existing intake and screen which conveyed the skip waste onto a waste sorting conveyor line. The line initially fed into a waste sorting enclosure with 10 stations with drop chutes into specified bunkers which held storage skips for ease of movement.

The enclosure included power and lighting with insulated walls. This ensured that the pickers had a safe, clean and dust free working environment. The picking stations were used to manually sort and remove waste items such as paper, textiles, wood, etc. Once the waste stream has passed through the manual waste sorting area, it passed out of the sorting enclosure and beneath a high powered over-band magnet which passed off the ferrous metals into a designated storage container for re-processing.

The stream then passed over an Eddy Current Separator where the non-ferrous metals and the plastics were sorted and sent to separate storage containers for re-processing.

Result

The client now has a re-processor supplier chain in place and are supplying their re-sorted skip waste in bulk volumes. The line was designed and installed by GAME on time and within budget.

