# SITE TOUR SCRIPT, LINWOOD

Welcome to William Tracey Limited, Linwood depot and Head Office.

REFUSE DERIVED FUEL (RDF)

* Diverts mixed municipal waste from landfill
* Process: Material fed into shredder by loading shovel for bag splitting and shredding, and then the conveyors feed into trommels for size screening and magnetic separation. This is to meet the calorific value required for the off taker.
* Size of particles no bigger than 40mm
* This is loaded into the baler by a grab
* The bales are produced and wrapped ready for export
* Bales are exported to Sweden and Holland to burn as fuel
* 262 average bales are produced daily
* Average bale weight is 1.065T
* Total volume of material exported was 57,554.63 tonnes from April 16 to March 17.

MATERIALS RECYCLING FACILITY (MRF)

* Mixed recycling facility
* 24/7 operations
* Manual picking
* Separation of co-mingled materials i.e. paper, plastic, polythene, cardboard, aluminium cans, metal cans
* 6T an hour processed and baled for recycling.
* Remainder of the material classed as unsuitable for recycling diverted to RDF to give the 100% diversion.

DIRTY MRF/ TRANSFER

* Mostly construction, industrial and municipal waste in this part of the yard
* 55% recycling rate but 100% diversion from landfill rate as what can’t be recycled will go back into the RDF process
* The material is fed into the grisly by the grab which separates out the metal and heavy materials
* The first picking cabin manually sorts out cardboard, wood, scrap and brick
* Behind the first cabin is a second conveyor which feeds into a trommel which sorts out the fines (40mm and 80mm)
* A blower then catches paper and feeds it into pipe which the drops it into the pile at the end which will go back into the RDF
* The picking station after this separates out wood and brick.
* The material left from this line goes through another blower and the remainder of light material is removed
* The final picking line sorts out wood and biomass
* The piles on the left of the plant are bays consisting of scrap, rigid plastics, Gypsum (recycled down south) and green waste (bulked for composting)
* We currently service five local authorities across Scotland with resultant commodities being used within the UK, or further afield.

TRACEY TIMBER

* 800-1000T timber processed weekly
* 24 no 25kg hammers inside the mill which spin around and break the wood into smaller pieces
* Material goes through screens to sort into different sizes and a magnet removes smaller pieces of metal
* Larger pieces are fed back into the mill by conveyor for further processing
* The smaller pieces are then separated out onto the conveyors and further magnets take out copper, larger pieces of scrap and nails
* 20T of nails are recovered and recycled
* The larger material at the last conveyor is sent to Norbord and made into chipboard
* The first bay at the end of the yard is finer chip at 8mm and is used for biomass and animal bedding
* 2nd bay contains white chip at 30-50mm this is used for biomass
* Recovery of pallets and have our own joiners for doing repairs on those that are repairable.

GLASS

* Electric Hazemag crusher
* Glass is tipped into the crusher and magnets on the first conveyor remove any metal caps and cans
* Inside the crusher there are four blow bars which hit onto an impact plate and cause a grinding effect which crushes the glasses this then drops to another conveyer to a finger vibrating separator which removes labels and the larger plastic caps from the crushed glass into a skip for removal to RDF
* It’s mechanically moved into the Warrior Power screen and sorted into 6mm and 17mm glass aggregate
* The 6mm can be used under mono block and slabs and the 17mm can be used to lay around pipes and ducts to save the use of quarried products and use 100% recycled material
* This saves using quarry aggregate
* The clear glass (bottle and plate) is used to supply company AllGlass (who Michael Tracey set up
* AllGlass create glass beads that are used to give the reflective qualities in road linings, with AllGlass supply the beads for 80% of road markings in the UK for 2016.

MISCELLANEOUS

* WTG employs around 250 employees at its Linwood site alone
* WTG has a fleet of more than 150 and 60 trailers vehicles servicing the Central belt of Scotland
* The weighbridge is the busiest in Scotland and we have a license to bring in 500,000 tonnes
* The Linwood facility is unique in the waste industry as so many processes take place at one site.