## Raw Materials Selection

The waste water treatment plant has been designed by specialists in the field via pilot plant trials on site due to the unique composition of our effluent. The site is the only man-made cellulosic fiber production plant in the UK. This means that the raw materials used for treatment is unique to Lenzing Grimsby with little comparison of other raw materials available to be made.

A full breakdown of the chemical raw materials to be used has been provided in document raw materials table as part of the C3 application form. This details quantities and chemical names to be used where currently known. The energy usage has also been stated in document C3 6a – Energy Usage and Efficiency.

Generally, many of the chemicals are what the site currently uses elsewhere such as sodium hydroxide and sulphuric acid. The addition of water treatment chemicals for membrane cleaning and coagulating and flocculating agents have been chosen specifically for the tasks at hand following pilot plant trails as discussed above.

## Raw Material Controls

All materials used on site will be purchased from reputable and approved suppliers as per our global guidelines and managed by the onsite purchasing department. The Material Safety Data Sheet (MSDS) for each chemical will also be held on site in line with legislative requirements. The chemical inventory will be routinely updated as new raw materials are introduced or existing are replaced or eliminated. Chemical spill kits will be placed on the site to effectively clean up any spills with on site waste segration procedure to be followed to prevent environmental harm.

As the plant operates for a longer period of time, the site will be able to evaluate the effectiveness of raw materials chosen based on data available with a further phase planned in order to reach the 90% COD removal allowing for changes to be made.