

Effluent Treatment Plant

This document provides details of the effluent treatment plant at Lotus Car's anodising site in Wellingborough.

All wastewater exiting the anodising facility is directed through the effluent plant before entering the foul sewer. The effluent plant has been designed to precipitate all consented metals and correct pH prior to discharge to foul sewer. The precipitate is removed using a desludging system which generates a filter cake. The effluent plant is run on a batch basis.

Routine Monitoring

To ensure that the system functions correctly there are pH meters to control redox reduction and neutralisation process and a redox meter to control the redox reduction process. Daily internal monitoring of the effluent quality is performed against the requirements of the formal discharge consent. The final effluent is stored in a 1 m³ storage tank and checked for Total Suspended Solids, pH and Sulphates before it is pumped into the foul sewer discharge point.

Daily treatment capacity

The effluent treatment plant processes approximately 17 m³ effluent per day (based on an average production schedule). The maximum capacity is understood to be 24 m³ per day.

Process flow:

