Biotage

Emissions Report, 2019

Form Air1: monitoring of processes A3 and A4 has been conducted during 2019. The reported values in 2016 showed emissions at their peak and over the whole of the batch process to exceed the limits of the permit for two of the processes. Using these values, a new H1 assessment has been carried out and submitted to NRW; processes A1, A2 and A4 were found to have no significant environmental impact, but A3 was still a concern.
The latest data for A3 is still above the short – term AQS limit and we are looking into more detailed modelling of this process. However, the new emissions abatement system for Process A4 has reduced the emissions significantly (0.039g/hr in 2019 vs 15.54g/hr in 2016).

Form Perf1: continued refinements to the processes were designed to reduce solvent consumption per tonne of product, but, due to some issues with raw material purity and increased washing, there has been a slight (5%) increase in solvent consumption, along with an increase of around 10% in output.

Water consumption has decreased by 90%, but we think that it has been incorrectly reported over the last 2 years (2017 & 2018). We are increasing output and using more circulators for cooling rather than running water, but this would not account for the dramatic drop in consumption. Electricity consumption is up by 7%, due mainly to increased use of the building for production in other departments, but gas usage is down by 17%, due to the mild winter compared to 2018. This has given an increase in specific usage as production of the materials involved in this report has not increased as much as use of the building.

Hazardous waste has decreased by 12% due process refinements and the use of less hazardous materials. Non-hazardous waste is up by 69% and mixed recycling is up by 3% for the site as a whole; this is under investigation by our EQH&S manager as one of our company environmental goals is to reduce general waste while increasing mixed recycling. We have had some issues in the last 12 months over the correct segregation of waste but are putting training in place to improve this.

N Jenkins

N Jenkins, Chemistry Production Manager