

## Biotage Emissions Report, 2024

**Form Air1:** monitoring of all processes was carried out in February 2024 and several results were found to be outside the ELV's. On closer inspection it was found that the tests were not carried out in the same way as they were when these ELV's were set in that the monitoring period was much shorter, 8 hours instead of the 24-hour duration of the reaction. Further emissions testing was carried out in November 2024, having been delayed by ongoing refurbishment of the labs. Unfortunately, initial results are not yet available, and some of the samples for external lab analysis have been contaminated. We are working with the testing company on a solution to this problem.

**Form Perf1:** post-pandemic recovery has been stalled in 2024. Consumption of raw materials has increased for process A2, but fell noticeably for process A1, A3, and A4. Combined output fell by 20% and only process A4 increased marginally, by 5%. The efforts to reduce solvent consumption per tonne of product have not been as successful in 2024, with a small decrease of 1.5% in consumption of solvent. Work will continue in this area in 2025, alongside projects to increase sustainability.

**Water & Energy Use:** water consumption has decreased significantly in 2024 due the phasing out of water-cooled condensers the area that had the highest water usage. This has led to an 84% decrease in the volume of water used overall, and an 80% reduction in Specific usage. Electricity consumption has increased by 3% due to new equipment in other departments. We are looking into monitoring electricity use in separate groups within the same building to give a better indication of the power use by the processes covered by the permit. Gas usage is up by 11% as other departments have expanded and extended hours worked leading to the heating being used for longer. Overall, energy consumption has increased by 5% and this, along with decreased output, has led to a 3% increase in MWh per tonne of product.

Hazardous waste increased in 2024 by nearly 400% as we changed from discharging to the sewer to a waste solvent storage tank and disposal via tanker with a licensed waste disposal company. Non-hazardous waste is up by 20%, and mixed recycling is down by 12% for the site. The increase in non-hazardous waste is the result of transferring production from another part of the business while the reduction in recycling is partly due to more internal recycling and re-use of packaging. The proportion of mixed recycling to non-hazardous waste was roughly 50:50, down from 60:40. Several projects will continue in 2025 across the business aimed at reducing all types of waste while increasing the proportion of mixed recycling.

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