

Holmfirth Dyers Ltd operates with point source emissions across the following locations marked in Figure 1 and in the document 'HFDB205c – Emissions Points'.



Figure 5 – Enhanced Site Boundary with Emissions Points

The following activities emit to atmosphere and their emissions point locations can be found within 'HFDB205c – Emissions Points'.

- A1a and A1b – gas-fired heating boilers used to provide heating and energy for the production processes. Both operate alternatively (only one boiler operates at any one time in normal operations) and emit from A1.
- A1c – production tumbler unit used to provide tumbler drying as part of the site production processes. Also emits combustion gases which are emitted to atmosphere through A1.
- A2 – tenter heating frame units which are used to provide thermal treatment to textile materials both before and after dyeing/finishing processes on site. All tenter frames emit through the stack at A2 in normal operations. The flue is fitted with an Electrostatic Precipitation (ESP) abatement system to reduce emissions further explained in the 'BAT Assessment' document.
- A3 – the flue acts as a bypass stack for the tenter frames outside of normal operations. Where the abatement stack fitted to A2 requires to be switched off, emissions are channelled through A3 from the tenter frames until the abatement fitted to A2 resumes operation.
- A4 – the stack incorporates multiple flue which emit from the dyehouse building on site. The winch dyeing process emits condensation from the stack, with no emitted chemicals. Further detail to explain the emissions process can be found within the folder 'HFDB305c - A4 Exclusion Justification'.

HFDB305a Stack Heights

- B1 – the point where trade effluent treated at the site Effluent Treatment Plant (ETP) is discharged to foul drain.
- B2 – this is a point on site where steam is emitted from the Sperotto and KD Machine as noted within the site plan, document reference 'HFDB2 Site Layout- 04-03-22'.

Stack heights for A2, A3, A4 and B2 are presumed at 0m for the purposes of the application. This is because the stack heights for these locations are less than 3m from the building in which they are situated upon, as detailed in line with the Environment Agency H1 Annex F – Air Emissions.

The stack height for point A1 is recorded at 29m. The stack height for A1 is inspected on an annual basis by Home – Steeplejack and High Access Maintenance from Access Maintenance Solutions. The stack height has been reported every year as 29m from road side and 35m from the rear side in relation to the site. Access Maintenance Solutions have confirmed that the stack height is recorded via tape measure. Point A1 is not located on top of a building, but is situated on hardstanding with an access room at the base. The stack access point for emissions testing is a horizontal and circular flue leading to a bricked chimney.