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| --- | --- | --- |
| *Method & timeframe Used for monitoring* | | |
| Initial testing completed by UKAS accredited third party contractor. Sampling completed using a sampling system in accordance with BS EN ISO 16911-1:2013 & mid, and third part technical procedures (ECL/TPD/022A). Please refer to Document C3 4a Detailed Sampling Protocols for reports V7 & below.  **On commissioning the large-scale shredder, emission monitoring will be completed and results reviewed / actions implemented.** | | |
| *Procedures followed* | *Parameter* | *Unit* |
| BS EN 13284-1:2017 & MID | Total particulate matter (dust) | mg/m3 |
| BS EN 12619:2013 | Total VOCs | mg/m3 |
| BS EN 14385:2004 & MID | Ni, Cd | mg/m3 |
| BSEN 14385:2004 &MID | As, Co, Cr, Cu, Mn, Pb, Sb, Se, TI, V | mg/m3 |
| BE EN14791:2017 | SO2 | mg/m3 |
| BS EN 1911:2010 | HCI | mg/m3 |
| PD CEN/TS 17340:2020 | HF | mg/m3 |
| BS EN 1948-1:2006 & MID | Brominated flame retardants | ng/m3 |
| BS EN 1948–1 & 4:2010 | Dioxin-like PCBS | ng/m3 |
| BS EN 1948-1:2006 & MID | PCDD/F | ng/m3 |
| BS EN 13284-1:2017 & MID | Total particulate matter (dust) | mg/m3 |
| BS EN 12619:2013 | Total VOCs | mg/m3 |
| BS EN 14385:2004 & MID | Ni, Cd | mg/m3 |
| BSEN 14385:2004 &MID | As, Co, Cr, Cu, Mn, Pb, Sb, Se, TI, V | mg/m3 |
| BE EN14791:2017 | SO2 | mg/m3 |
| BS EN 1911:2010 | HCI | HCI |
| PD CEN/TS 17340:2020 | HF | HF |
| BS EN 1948-1:2006 & MID | Brominated flame retardants | Brominated flame retardants |
| BS EN 1948–1 & 4:2010 | Dioxin-like PCBS | Dioxin-like PCBS |
| BS EN 1948-1:2006 & MID | PCDD/F | PCDD/F |

Initial Performance Tests (including above):

1.  Stack NOx/O2/CO2/Moisture.

2.  Stack Total Particulate/Fine Particulate (say PM10 and/or PM2.5).

3.  Stack Total Hydrocarbons (THC).

4.  Stack Total Volatile Organic Compounds (VOC, as a subset of THC).

5.  Stack Speciated VOCs.

Initial Control Device Efficiency Tests:

1. Baghouse (Particulate).

Scrubber (VOCs)

2. Periodic Compliance Tests (once a year or perhaps more frequently):

VOC/Speciated VOC.

Any other frequency deemed necessary following testing or as requested by the Environment Agency.