

Our professional Bioaerosol Monitoring Package Includes:

- Desk study to identify sensitive receptors
- Strict adherence to Composting Association Standard Protocol
- Use of Active Impaction Method according to Environment Agency Technical Guidance Document M17
- Use of duplicate and replicate sampling for greater accuracy
- Monitoring for *Aspergillus* and *Actinomyces* species, and for mesophilic bacteria
- Full meteorological monitoring
- Background bioaerosol levels assessment
- Assessment of bioaerosols at downwind and numerous sensitive receptor locations
- Detailed, unbiased reporting, including presentation-quality plans of your site
- Survey of baseline bioaerosol levels before site construction / operation

*For a competitive quote, contact Jo Davies:
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Our clients include experts in Organic Compost Treatments including:

- *Open-Air Windrow Composting*
- *In-Vessel Composting*
- *Anaerobic Digestion*
- *On-farm Composting*



Professional Bioaerosol Monitoring Services



Crestwood environmental

Bioaerosols

Bioaerosols are airborne particles (usually measuring less than 20 microns in diameter) consisting of, or originating from microorganisms (bacteria, viruses or fungi). These particles come from organic matter, plants, soil, animals and humans. They may be put into suspension in the air, adhere to organic dust particles and tiny droplets of water that they come into contact with and then be transported, creating bioaerosols. These particles can be inhaled and held in the nose and mouth while the smallest, less than 5 microns, are respirable and can penetrate deep into the lungs.

Potential harmful effects of bioaerosol emissions and odour problems from composting operations are a concern for the Environment Agency, Local Authority environmental health departments, planners, site operators and the public at large.



British Standard 13098:2001 Workplace Guidelines For Measurement Of Airborne Micro-Organisms And Endotoxins provides guidelines for the assessment of workplace exposure to airborne micro-organisms including the determination of total number and culturable number of micro-organisms in the workplace atmosphere. In line with these guidelines the Compost Association developed a standard protocol for the monitoring of bioaerosols on composting facilities.



Our Services

Crestwood Environmental provide full bioaerosol surveys using Environment Agency approved method statements and adhering to the 'Composting Association Standard Protocol for the Enumeration of Airborne Microorganisms'.

Our specialist staff will collect samples from several agreed locations around your site and facilitate laboratory



Analysis of the samples. Duplicate and replicate samples from locations both upwind and downwind of the site, as well as in the direction of identified Sensitive Receptors .



Using four single-stage Anderson Samplers (as recommended in the Composting Protocol), and state of the art portable meteorological equipment to provide clear, accurate and reliable data.

We work in partnership with professionally accredited microbiology labs to analyse the samples.

Reporting

Crestwood Environmental produce high-quality reports with accurate plans and drawings to provide clear details of your site. Our reports include full, independent and detailed analysis of the laboratory results, assessing existing background levels of bioaerosols and taking into account site activities, surrounding factors which may affect bioaerosol levels, and meteorological conditions recorded at the time of sampling.

**Crestwood conduct
bioaerosol monitoring
throughout the UK.**



**Crestwood
environmental**