

Bioaerosols

The term bioaerosol refers to biological particles that have become airborne and may contain a wide variety of micro-organism and their components in varying quantities, e.g. bacteria, actinomycetes, fungal spores, endotoxin, mycotoxins and glucans. Bioaerosols are created during waste processing activities, particularly during agitation activities such as shredding, turning and screening.

Certain bioaerosol components have the potential to cause or irritate existing respiratory conditions, such as asthma, through short and long term exposures.

As a result, bioaerosols must be managed and controlled at waste facilities for their employees and their neighbours.

For further information:

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CENTRE FOR HEALTH, SAFETY & ENVIRONMENT

CONSULTANCY SERVICES FOR THE WASTE SECTOR



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The Centre for Health, Safety and Environment is a research and consultancy unit based in the Cardiff School of Health Sciences at Cardiff Metropolitan University.



The Centre brings together academics, researchers and professional consultancy staff with a wealth of knowledge and experience assessing and managing the occupational and environmental issues arising from activities within the waste sector.



CHSE staff are actively involved in research in the waste sector which ensures that our consultancy services are fully supported by experts in the field.

Services/Activities:

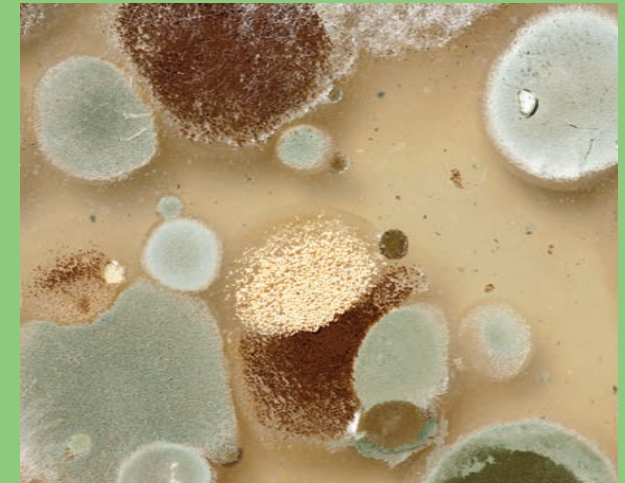
Occupational:

- Occupational bioaerosol monitoring & assessment
- Dust, bacteria, fungi and endotoxin assessment
- Preparation of documented bioaerosol risk assessments
- COSHH assessments
- Dust, gas and fume monitoring



Environmental:

- Site Specific Bioaerosol Risk Assessments (SSBRA)
- Baseline bioaerosol monitoring at site planning and commissioning stages.
- Bioaerosol monitoring and assessment for Environmental permit compliance
- Fugitive dust monitoring



Health Screening

CHSE can provide a suite of health screening tools to meet the requirements of operators, including;

- Baseline respiratory health surveillance
- Annual respiratory health surveillance
- Lung function testing (Spirometry)
- Sensitisation (IgG) testing
- Allergy (IgE) testing

