Bryn Composting – Odour Management Plan.

Summary document outlining the presentation given by Mark Baker from Walker Resource Management at the Bryn Composting Liaison Meeting on 23rd February 2011 at Caerphilly County Borough Council.

An odour management plan (OMP) outlines methods by which Bryn Composting will systematically assess, reduce and prevent odorous emissions from their operations.

The OMP is a working document with the specific aim of ensuring that:

- Odour impact is considered as part of routine inspections
- Odour is primarily controlled at source by good operational practices, including physical and management control measures
- All appropriate measures are taken to prevent, or where that is not reasonably practicable, to reduce odorous emissions to air from Bryn Composting

The OMP also addresses the impact of odour release and the control measures employed to mitigate that risk. These are supported through monitoring procedures to identify both elevated levels and to review complaints when they arise.

The methodologies and procedures based in by the Bryn Composting OMP e environment agency take full account of the Environment Agency Guidance documents; Additional Guidance for H4 Odour Management. How to comply with your environmental permit, and references have also been made that refer the Association for Organics Recycling Industry guide for the prevention and control of odours at bio-waste processing facility and the Agency document Technical Guidance on composting operations.

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1 Additional Guidance for H4 Odour Management. How to comply with your environmental permit. Published by the Environment Agency, March 2011.


Summary of the structure of the Odour Management Plan
The structure of the OMP is laid out in accordance with the EA guidance and considers:

Potential odour release points
Detailed examination of each step of the process from the acceptance of waste to the export of the compost including bio-filters and leachate management.

Source inventory
The Source inventory outlines typical quantities of materials at each process step/area and their potential impacts.

Identification of sensitive receptors
Identification of sensitive receptors and potential impacts on the probability of exposure dependent on location and wind direction.

Risk assessment
Risk assessment covering all aspects and steps of the operations together with details of how the risk is being managed the probability of exposure.

Site strategies for odour control
Most odour problems which arise at compost sites are due to biological, mechanical or environmental problems. The majority can be controlled onsite by the site manager. This section lists a number of possible odour issues and their corrective actions and well as preventative actions to ensure the problems do not reoccur.

Olfactory assessment
Olfactory assessment and the recording of monitoring on and off site, both reactive and proactive.

Complaint monitoring
How complaints are logged, assessed, investigated, recorded and replied to.

Site responsibilities
Identification of the operations overall responsibility.

Abnormal events and emergency plans-
Actions and procedure the site puts into place should any abnormal events occur that fall outside of the site’s normal operating parameters- this section includes accidents and contingencies.

Process critical limits and compliance actions
Identification of process critical control points and the actions that should be taken if the critical control points are exceeded.
Critical limits are based on industry best practice, and include:

- **Feedstock**: Composition and moisture content
- **IVC**: Temperature and oxygen levels
- **Biofilters**: Ammonia extraction efficiency and odour assessment
- **Maturation Pad**: Temperature and Moisture

**Procedures when odours arise**

Internal odour procedure and an external complaints procedure to ensure any odour issues are dealt with quickly and effectively.