



# Emissions & Odour Management Plan

Unit 9,  
Dakota Business Park,  
14 Downley Road,  
HAVANT,  
PO9 2NJ.



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## **Goal**

We intend to prevent any visible airborne emissions from any part of the process and that all emissions are free from offensive odour outside the site boundary.

## **Site details**

### **Process description & release points**

1. Receipt of pet bodies from:
  - a. vets or clients following euthanasia.
  - b. vets or clients following natural death.
2. Movement of pet bodies into crem-film lined, rigid beds.
3. Storage of pet bodies in sealed, refrigerated, cold storage within beds.
4. Movement of pet bodies from bed onto stainless steel trolley.
5. Incineration of pet bodies with complete combustion.
6. Raking of bone ash into cooling tray.
7. Cremulation (grinding) of bone ash into a fine powder.
8. Movement of bone ash into:
  - a. Sealed, leakproof containers for client collection (most cases).
  - b. Sealed waste receptacle for landfill (rarely).

Emissions pertain to point 5. All points are possible odour release points.



### **Sensitive receptors**

The proposal is small scale and in normal operation should produce no visible emissions or odour. We therefore consider sensitive receptors must be reasonably close to the site to have any risk of being affected, even during catastrophic conditions and the absence of any controls.

Those in closest proximity will be those working or visiting Unit 9. Cremators and care co-ordinators need a safe and comfortable work environment. Vets and pet owners will visit briefly but need to be confident in how we work and manage the site.

We need to be good neighbours. Dakota Business Park staff and clients are further afield but it is important to avoid causing any nuisance.

Receptors at further distances would be highly unlikely to experience any adverse odours or emissions, even in the absence of any controls. They include staff and clients at Dobbies Garden Centre and residents to the south-east of the site.

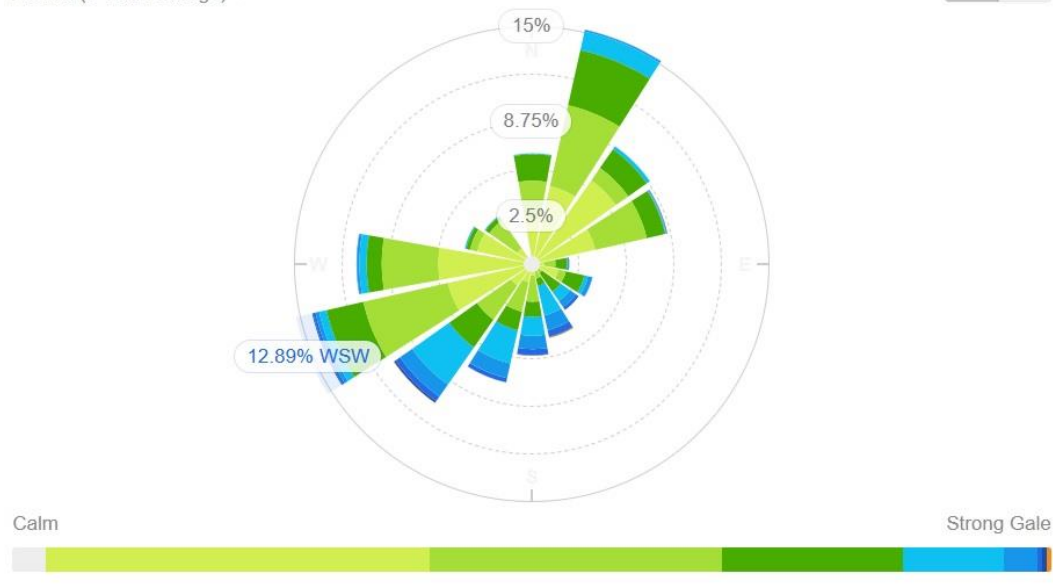


## Prevailing meteorological conditions

An estimated five-year average of wind conditions shows wind direction is mostly in an east to west or north to south direction, especially when it is at its strongest. This direction moves towards industrial units and Barton's Road.

### Wind Rose

Annual (5 Year Average) ▾





## **Routine controls under normal conditions**

### **Receipt**

Every consignment is assessed for odour by the care co-ordinator or vet who receives them, usually correlating with the body's state of decomposition. Receipts from clients have the highest risk of increased odour due to their lack of appropriate storage before arrival.

Bodies with offensive odours on receipt will be prioritised for cremation, especially if refrigeration doesn't resolve the issue.

### **Storage**

The cremator will assess bodies in refrigeration at the start of each day and any with evidence of bloat or strong odour will be prioritised for cremation. This is likely to correlate with the size of animal. Large pets are to be cremated first in normal operation of the cremator.

### **Incineration**

The cremator will assess the emissions from the flue after loading the first pet of the week into the AD-Entente for visible emissions.

The vets and cremator will weigh all pet bodies before and after cremation. Bone ash should weigh no more than 5% of the pre-cremation weight and should be grey in colour. Black ash or a weight >5% suggests incomplete combustion and be investigated.

Adament Refractory Settings will commission the machine and perform an annual inspection for maintenance and repair.



## **Foreseeable abnormal conditions & additional controls**

### **Adverse weather (high temperatures)**

Bodies will arrive in worse states of decomposition and at higher starting temperatures. The cremator will perform an additional storage inspection for bloat or strong odours in the middle of their shift.

### **Breakdown of sealed refrigeration**

New receipts are halted until existing pet bodies have been cremated and should only then be accepted if they can be cremated on the same day as they arrive.

### **Breakdown of cremator**

We will keep a supply of commonly replaced parts. Adament Refractory Settings offer telephone support so a local engineer can fix the problem. The AD-Entente cremator is manufactured using readily available parts that can be ordered within 1–2 days if a part not in our supply fails.

Receipt and storage checks continue as normal while storage capacity remains adequate, and pet bodies will be consigned to an alternative pet crematorium if storage odours become a problem.

### **Power failure**

Represent a combination of sealed refrigeration and cremator breakdown. Refrigeration units maintain their temperature if the doors remain sealed, so new receipts are to be halted while the problem is investigated. If the failure can't be resolved within the working day, then pet bodies will be consigned to an alternative pet crematorium.

### **Spillages**

Any liquids spilt from crem-film lined beds or in the movement of the pet bodies will be absorbed and incinerated along with the pet's body.

Any ash spillage can be dealt with by moving it into a container if the spillage is well contained or prior to cremulation. Alternatively, it can



be collected using wet methods or, if no other options are available, by vacuum. Dry sweeping of dusty spillages is not permitted.

### **Visible emissions**

There should be no visible emissions. In the event of any emissions:

- Light smoke: settings can be adjusted to eliminate them (good combustion, lower gas velocity), and actions recorded as a significant event.
- Dark smoke: incineration is halted, and the source identified with help from Adament Refractory Settings.



## **Triggers for additional controls**

### **Odour detected outside the site boundaries**

No odour outside the site boundaries is acceptable. Vets and care coordinators are expected to raise this as a concern if they spot it. The source should be identified and resolved. A boundary check must be made daily until it is resolved with the results recorded.

### **Odour or emissions complaints**

As above, any complaint of odour or visible emissions represents a serious failure of our controls. The date, time, nature, and severity of the complaint is to be recorded along with contact details for the complainant and sent to one of the Directors. The source should be identified and resolved. A boundary check must be made daily until it is resolved with the results recorded.