Odour Management Plan

Site details

Site Name	Bakkavor Meals Boston
Trading as	Bakkavor Foods Limited
Site Address	Bakkavor Meals Boston - Chappel Road, Old Leake, Boston, PE22 9PN
Operator Name	Bakkavor Foods Limited
Permit Number	Installation permit not yet in place.

Job titles of responsible persons

Environmental Management Team:

- Responsible for overall delivery of the environmental commitments of the factory whilst undertaking normal business operations and related activities
- Liaison with environmental regulators such as the Environment Agency (EA) and other regulatory bodies in the event of an emergency.
- Assess and plan measures to minimise potential odours escaping site.
- Monitors site activities and ensures control measures are in place, including odour control.

All Staff:

- Responsible for ensuring that good housekeeping measures are implemented at all times.
- Report any unexpected odours on site.

Document Owner

Responsible person	Dayle Rowson, SHE Manager, Bakkavor
Version number	1.0
Contributor 1	Holly Robarts, Senior Environmental Consultant, Cura Terrae
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List of Revisions

Version	Revision Owner	Revision Author	Description of Changes	Date Submitted to EA for approval	Date Approved by EA
1	DR	DR	Original version	06/08/2026	

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1. Introduction

1.1. Site description

Bakkavor Meals Boston (the site hereafter) is a food manufacturing company, specialising in Italian prepared foods, including meals, supplying major grocery retailers in the United Kingdom. The site operates 24 hours, seven days a week and has

approximately 700 employees, including agency staff. Bakkavor were acquired by Greencore in January 2026. The site has an Effluent Treatment Plant (ETP) managed by Alpheus, which discharges a blend of treated effluent and treated foul effluent into a dyke which runs along the edge of the site boundary.

The site is located on Chapel Road, Old Leake, Boston, Lincolnshire, PE22 9PN. See Figure 1 for the location of the site.



Figure 1 Site location

The site is surrounded by agricultural land, along with some residential properties.

The production flow for the site is as follows:

- Raw materials intake (“goods in” areas)
- Cooking facilities connected to the main production building
- High care chilled production and storage for “work in progress” ingredients
- Segregation of low risk vs. high care areas to maintain hygiene standards
- Packing and dispatch operations for finished meals.

The Hazard Analysis and Critical Control Points (HAACP) for the factory process can be found in ‘BMB 2.5a7 HACCP Process Flow Diagram V46’.

The ETP on-site treats trade effluent from the factory. The process flows for the ETP can be found in 'BMB 2.5a6 Effluent flow diagram', 'BMB 2.5a4 ETP Process Flow Diagram Sheet 1' and 'BMB 2.5a5 ETP Process Flow Diagram Sheet 2'. The discharge outlet associated with the ETP is located at NGR TF 3980 5147. See 'BMB 6.10j Discharge Outlet' for the location.

1.2. Maintenance and review of the OMP

The OMP shall be reviewed annually, if there is a significant change in site operations, or if we are notified that there is an odour pollution report in the vicinity of the site, which is attributable to the activities. If changes are required, then a revised OMP will be promptly submitted to the Environment Agency for approval.

1.3. Relevant guidance and other sources

Odour management: comply with your environmental permit (GOV.UK)
Risk assessments for your environmental permit (GOV.UK)
Develop a management system: environmental permits (GOV.UK)
BAT Reference Document for the Food, Drink and Milk Industries

2. Risk assessment

The potential for malodours is considered to be fairly low from the site. The processes are contained within existing buildings, and there are very few or no areas where either the raw material or product is not under cover or in an enclosed space.

Raw materials are delivered to the site in sealed containers, therefore, odours generated from this are considered to be minimal. The production process that potentially gives rise to odours is the cooking, which is carried out in industrial ovens. Processes are contained within the building, however, there are several extraction points located around the building that could potentially contribute to odour.

Odours may arise from ancillary activities such as waste management and effluent treatment. Potential sources of odour can be found in Table 1.

2.1. Potential Sources of Odour

Table 1 Potential sources of odour

Source	Odour	Nature	Location/ Containment	Release Pattern
Intake and handling of raw materials	No discernible odour	Less offensive	The majority of raw materials delivered to site are dry and in bulk. All materials are sealed.	Intermittent, based on delivery vehicles.
Storage of raw materials	No discernible odour	Less offensive	Inside the process building. Tomato sauce (which is sealed) is temporarily stored outside before being moved inside.	N/A
Raw Material Preparation (cutting peeling, chopping, mixing, blanching, pasteurization)	No discernible odour	Less offensive	Inside the process building.	Throughout the day.
Operation of commercial oven	No discernible odour	Less offensive	Inside the process building. Vents to atmosphere.	Throughout the day.
Storage of waste and Category (CAT) 3 Animal By Product (ABP)	General waste, rotting vegetable, cooked meats, dairy	Moderately offensive	CAT 3 ABP containers are stored at the waste compound and are kept in covered trailers.	Throughout the day. Expected to peak in hot weather.

Source	Odour	Nature	Location/ Containment	Release Pattern
Effluent Treatment Plant (ETP)	Sludge	Most offensive	The sludge tanks and chemical tanks are located outside the ETP building.	Throughout the day. Expected to peak in hot weather.

Figure 2 shows the location of the ETP and the storage of Category 3 Animal By-Product (CAT 3 ABP) and waste.

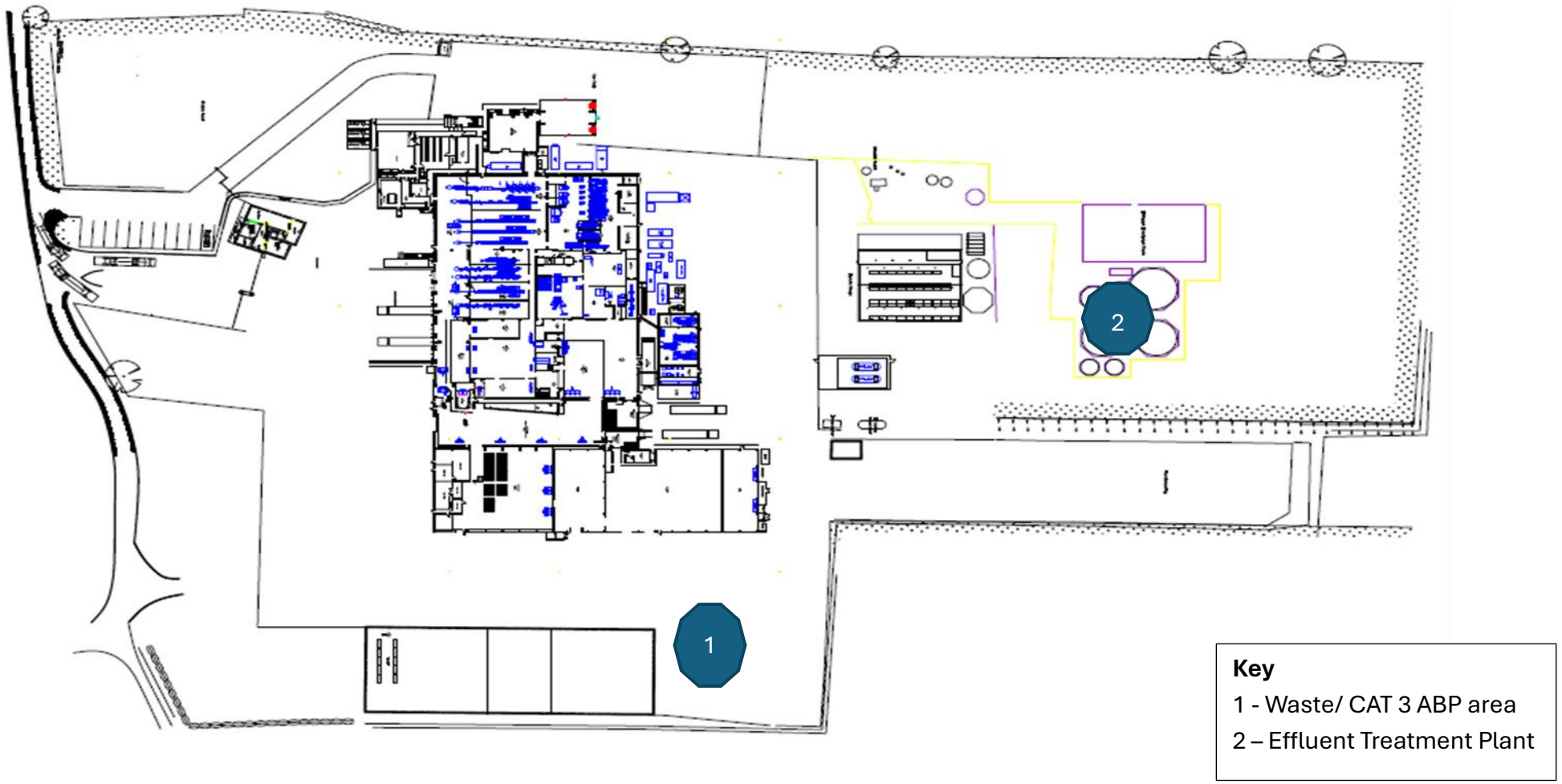


Figure 2 External odour sources

2.2. Pathways linking sources to receptors

Table 2 Pathways

Source	Path ways	Receptor	Probability of exposure	Potential consequence	Overall risk
Intake and handling of raw materials	Air	Local residential	Negligible	Negative impact for nearby residential properties	Low
Storage of raw materials	Air	Local residential	Negligible	Negative impact for nearby residential properties	Low
Raw Material Preparation (cutting peeling, chopping, mixing, blanching, pasteurization)	Air	Local residential	Negligible	Negative impact for nearby residential properties	Low
Operation of commercial oven	Air	Local residential	Low	Negative impact for nearby residential properties	Low
Storage of waste and CAT 3 ABP	Air	Local residential	Medium	Negative impact for nearby residential properties	Low
Effluent treatment	Air	Local residential	Medium	Negative impact for nearby residential properties	Low

2.3. Receptors

The site is surrounded by mostly agricultural land with a number of residential properties nearby. See Figures 3 and Table 3 for the locations of the sensitive receptors surrounding the site.



Figure 3 Sensitive receptors

Table 3 Sensitive receptors

Reference	Description	Approximate distance (m) and direction
R1	Residential property – Chapel Road	Adjacent, north
R2	Agricultural units	20m, south
R3	Residential property – Chapel Road	20m, north
R4	Residential property off Fold Hill Road	30m, east
R5	Several residential properties off Chapel Road	40m, east

R6	Several Residential properties – Chapel Road	70m, north
R7	Residential property – Fellands Gate	90m, north west
R8	Residential property – Fellands Gate	140m, north west
R9	Residential property – Fold Hill Road	180m, west
R10	Residential property - Cowbroads Lane	330, south west

2.4. Poor dispersion conditions

The closest wind and weather statistics are for Holbeach/ The Wash. This information is based on observations taken between June 2004 and February 2026 (Wind & Weather Statistics Holbeach/The Wash, windfinder.com).

- The prevailing average wind direction is from the southwest.
- Taking this meteorological information into account, the most sensitive receptors are likely to be R1, R3, R4, R5 and R6 (as identified in Table 2 and Figure 3) as they are located to the northeast of the site.
- Average wind speeds for the year range from 12mph to 15mph. December, February, March and April are the windiest months, each with an average wind speed of 15mph. June to October are the calmer months, each with an average wind speed of 12mph and 13mph.
- More offensive odours, such as those from the effluent plant and the CAT 3 ABP, will be less likely to escape from the site as the windier parts of the year are also the cooler months; the cooler temperature will mean that the odour is less potent.
- Monthly wind direction and wind speeds in Holbeach/ The Wash are shown in Figure 4 (Average Weather in Holbeach, weatherspark.com).

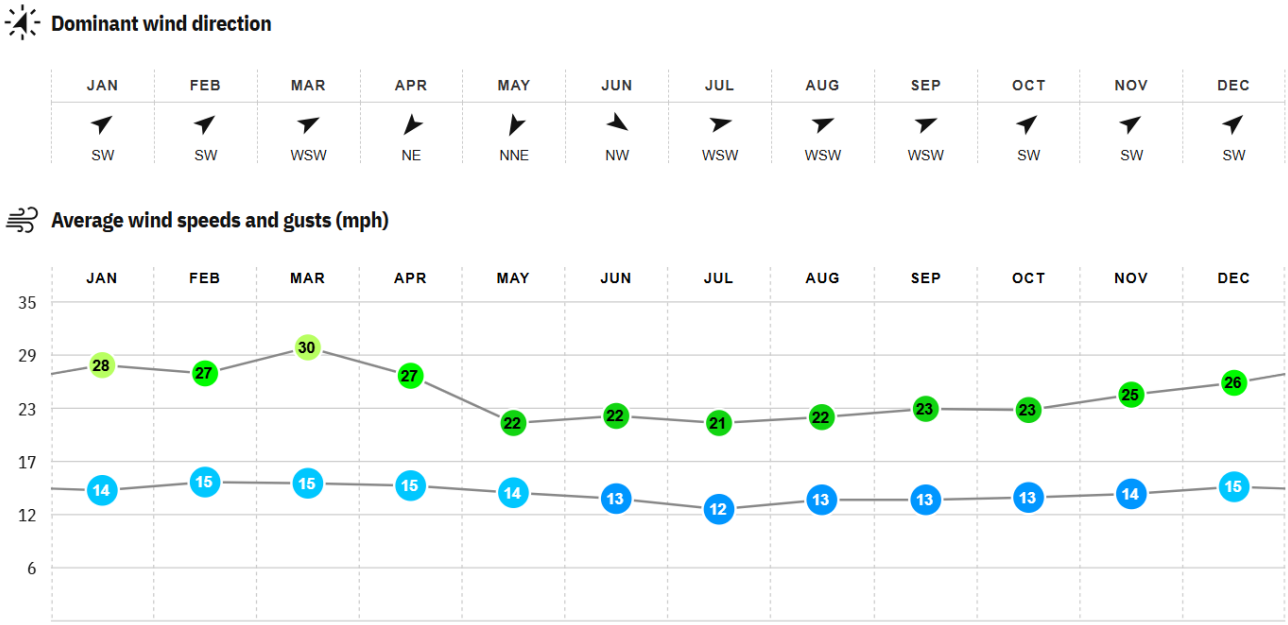


Figure 4 Monthly wind direction and wind speeds

3. Control Measures and Monitoring

Table 4 Control measures

Source	Control Measures
Intake and handling of raw materials	Bakkavor Meals have a 'Raw Material Intake Procedure' which outlines the quality inspections that are to be carried out and the rejection process (*e.g.* if leaks or damage to raw material packaging) (see 'BMB 3.3b2 Raw Material Intake Procedure'). The delivery lorries are all enclosed. Raw materials delivered to the site are sealed.
Storage of raw materials	Raw materials are stored internally.
Raw Material Preparation (cutting peeling, chopping, mixing, blanching, pasteurization)	Production activities take place internally.
Operation of commercial oven	Ovens are subject to regular maintenance.
Storage of waste and CAT 3 ABP	General waste and CAT 3 ABP are removed from the site twice a week. Leaks and spills are dealt with according to spillage procedures on site. CAT 3 ABP containers are stored at the waste compound and are kept in covered trailers.
Effluent treatment	The ETP undergoes regular maintenance. Operating procedures for the ETP can be found in 'BMB 6.7 Effluent Treatment Plant Procedures'.

	Leaks and spills are dealt with according to spillage procedures on site. There are emergency procedures in place should the plant fail.

No historic complaints have been received in the past regarding odour.

4. Odour incident investigations

Any odour complaint, irrespective of source and any odour issue, is fully investigated, as per the complaints procedure for the site (see 'BMB 3.3b3 Complaints Procedure').

The investigation would include visiting the area from where the complaint came (if known), checking the weather conditions at the time of the complaint and checking on all process activities at the time, including raw material intake, cooking, waste management and effluent treatment.

Following odour complaints or issues, regular odour monitoring would be introduced, particularly in the area where the complaint originated, and results recorded. Investigation will be carried out and a suitable response implemented.

5. Odour incident response planning

Abnormal situations may arise at the site during a breakdown or period of unplanned maintenance. However, the factory has a planned maintenance system in place, to minimise the probability of a breakdown through good management practice.

The measures outlined in Section 3 will be adhered to if an odour is released from the factory with the potential to cause a nuisance to sensitive receptors. The Environment Agency will be contacted and informed, where applicable.

6. Declaration

We have carefully considered all aspects of our permitted activity and identified those materials, activities and conditions which may pose a risk of odour pollution. Any historic odour pollution incidents attributed to this site have been thoroughly considered as part of our risk assessment. These risks are documented in section 2 of this OMP.

We commit to implementing the control measures specified in section 3 of this OMP. These are all the measures which we currently believe are necessary, proportionate, and adequate for the control of odour pollution, but we will keep this under review.

If there are any changes to our activities which impact the risks identified in section 2, the effectiveness of measures specified in section 3, or if odour pollution occurs, we will reassess the adequacy of our odour control measures.

If the activities at the site cause off-site odour pollution and all appropriate measures have not been used to prevent or where that is not practicable, to minimise the odour, including those specified in this plan, then we understand we may be subject to enforcement action.

Considering the risks identified and control measures specified, we have concluded that it is unlikely that our activities will cause serious off-site odour pollution. If activities at the site do cause serious odour pollution off-site, then we understand that we may be subject to enforcement action even if we can demonstrate that we are using all appropriate measures.