



DCO Submission

Planning Statement

Appendix 4: Odour Report

Document 5.4D

On behalf of
Oxfordshire Railfreight Limited

Prepared by Phlorum Ltd.
March 2026



IVCF Odour Assessment

Oxfordshire SRFI

02 February 2026

IVCF Odour Assessment

Oxfordshire SRFI

02 February 2026

Oxfordshire Railfreight Limited
Ardley, Oxfordshire

Document Control:

| Project no. | Project |
|-------------|-----------------------|
| 14159 | IVCF Odour Assessment |

| Report No. | Version | Updated by | Checked by | Authorised | Date of issue |
|------------|---------|------------|------------|------------|---------------|
| 14159 | V0 | [REDACTED] | | | 24/10/2025 |
| | V1 | | | | 31/10/2025 |
| 14159 | V2 | | | | 02/02/2026 |

This report has been prepared for the exclusive use of the commissioning party and may not be reproduced without prior written permission from Phlorum Limited.

All work has been carried out within the terms of the brief using all reasonable skill, care and diligence.

No liability is accepted by Phlorum for the accuracy of data or opinions provided by others in the preparation of this report, or for any use of this report other than for the purpose for which it was produced.

Phlorum Limited

Unit 12, Hunns Mere Way, Woodingdean, Brighton, East Sussex, BN2 6AH



EXECUTIVE SUMMARY

Phlorum Limited (supported by BWB Consulting Limited) has been commissioned, on behalf of Oxfordshire Railfreight Limited, to provide odour advice as part of the Oxfordshire Strategic Rail Freight Interchange (OxSRFI) Proposed Development. The Proposed Development's Order Limits cover a considerable area. The area where the proposed warehouse units will be located is referred to in this report as 'the Main Site'.

It was established early in the design development process (see scheme evolution details set out in the Design Approach Document) that the existing In Vessel Composting Facility (IVCF) could not be retained in its current location. The potential to relocate the facility elsewhere on the Main site, with a location in the southwest corner of the site considered, has therefore been explored. Phlorum and BWB have provided advice on the potential amenity impacts on existing and proposed receptors that could occur from the relocation of the IVCF.

An assessment of potential odours from the existing IVCF was undertaken considering local meteorological conditions, the location of existing and proposed sensitive receptors and the potential for odours associated with the relocated IVCF to impact the amenity of these receptors.

BWB undertook five odour surveys (sniff tests) on separate days between September 2021 and October 2022. Phlorum carried out a further two surveys on separate days in September 2025. All odour surveys were undertaken in accordance with appropriate Institute of Air Quality Management (IAQM) guidance. The sniff testing was undertaken in the vicinity of the existing IVCF to determine baseline odour conditions and to establish a potential 'area of influence' for the proposed IVCF relocation site. Consideration was given to the location and sensitivity of existing and proposed receptors, relative to the proposed relocation site.

A review of odour complaints data received from Cherwell District Council (CDC) and the Environment Agency (EA) was also undertaken to inform the baseline odour review. Dozens of complaints regarding odours from the IVCF were recorded. The majority of these were from complainants in the villages of Ardley and Fewcott, approximately 2.5 – 3.5km to the north and northeast. Considering the prevailing wind direction is from the southwest, these villages are located in a predominantly downwind direction from the IVCF.

Odours considered to be associated with the IVCF were detected frequently during the seven sniff test surveys. Strong and often characteristically offensive odours were detected at regular intervals, with the furthest strong and persistent odours being detected as far as 535m from the IVCF. A relocation of the IVCF facility to a location in the southwest of the Main site would place the IVCF further from the closest existing downwind sensitive receptors than they are from the current location. This would likely be beneficial to these receptors as the increased separation distance would increase dispersion and dilute odours before they reached them. However, a relocated IVCF in this location would place it close to a number of proposed sensitive receptors (including new warehouses and associated office spaces, car parking areas, footpaths and cycleways) at a distance much closer than existing receptors where numerous odour complaints have been received. Receptors within the Main Site would be located well within 535m of a relocated IVCF, where sniff test results indicate that strong and unpleasant odours can occur.

Mitigation measures such as introducing a standoff buffer, locating higher sensitivity land uses away from a relocated IVCF facility, and dense planting of tall vegetation to help contain and disrupt airflow through the IVCF have been considered. However, although such measures might reduce odours from the IVCF, they are not considered sufficient to avoid local adverse effects.

Changes to the current operation of the IVCF were also considered as part of the potential relocation. These included enlarging the waste reception building, to hold more waste and enable front end picking, and increasing the maturation pad size. Whilst these changes could increase the throughput of waste at the relocated IVCF, it was assumed, for the purposes of this assessment, and on the currently available information, that this would not significantly alter current overall odour emission rates.

If the IVCF is not only relocated, but also expanded, it is assumed, for the purposes of this assessment, that this expansion would have no material influence on the odour risks posed to users of the Proposed Development.

The proposed mitigation measures and operational changes to a relocated IVCF might reduce the detection of odours at receptors within the Main Site and in the local area. However, it is considered that strong odours would likely still be detectable in some areas of the Main Site, depending on meteorological conditions and IVCF operations. This assessment has found that relocating the existing IVCF within the Main Site is unlikely to prevent future occupiers of the Proposed Development from experiencing strong and offensive odours on a regular basis.

CONTENTS

| | |
|---|----|
| EXECUTIVE SUMMARY | i |
| 1. INTRODUCTION | 1 |
| Appointment & Background | 1 |
| Main Site and IVCF Setting | 1 |
| Development Proposals | 1 |
| 2. LEGISLATION AND PLANNING POLICY | 3 |
| National Planning Policy | 3 |
| Local Planning Policy | 4 |
| Odour Assessment Guidance | 5 |
| 3. METHODOLOGY | 6 |
| Communication with Cherwell District Council and the Environment Agency | 6 |
| Methodology | 6 |
| 4. REVIEW OF METEOROLOGICAL CONDITIONS | 7 |
| 5. REVIEW OF RECEPTOR LOCATIONS AND SENSITIVITY | 10 |
| Existing Sensitive Receptors | 10 |
| Proposed Sensitive Receptors | 11 |
| 6. REVIEW OF ODOUR COMPLAINTS | 14 |
| 7. ODOUR SNIFF TESTING SURVEYS | 17 |
| BWB's Sniff Tests | 17 |
| Phlorum Sniff Tests | 27 |
| 8. SUMMARY OF FINDINGS | 33 |
| Mitigation Measures | 33 |
| Future IVCF Operations | 34 |
| 9. CONCLUSIONS | 35 |

1. INTRODUCTION

Appointment & Background

- 1.1 Phlorum Limited was appointed by BWB Consulting Limited, on behalf of Oxfordshire Railfreight Limited, to provide odour advice as part of the Oxfordshire Strategic Rail Freight Interchange (OxSRFI) Proposed Development. BWB Consulting Limited provided initial advice following their collection of odour evidence. Phlorum has supplemented BWB's initial advice with further evidence to increase the robustness of this assessment. This report has therefore been prepared with input from consultants at both BWB and Phlorum.
- 1.2 It was established early in the design development process (see scheme evolution details set out in the Design Approach Document) that the existing In Vessel Composting Facility (IVCF) could not be retained in its current location. The potential to relocate the IVCF within the Main Site has therefore been considered. Phlorum and BWB have provided advice on the potential amenity impacts on existing and proposed receptors that could occur from the relocation of the IVCF.
- 1.3 An assessment of potential odours from the existing IVCF was undertaken considering local meteorological conditions, the location of existing and proposed sensitive receptors and the potential for odours associated with the relocated IVCF to impact the amenity of these receptors.

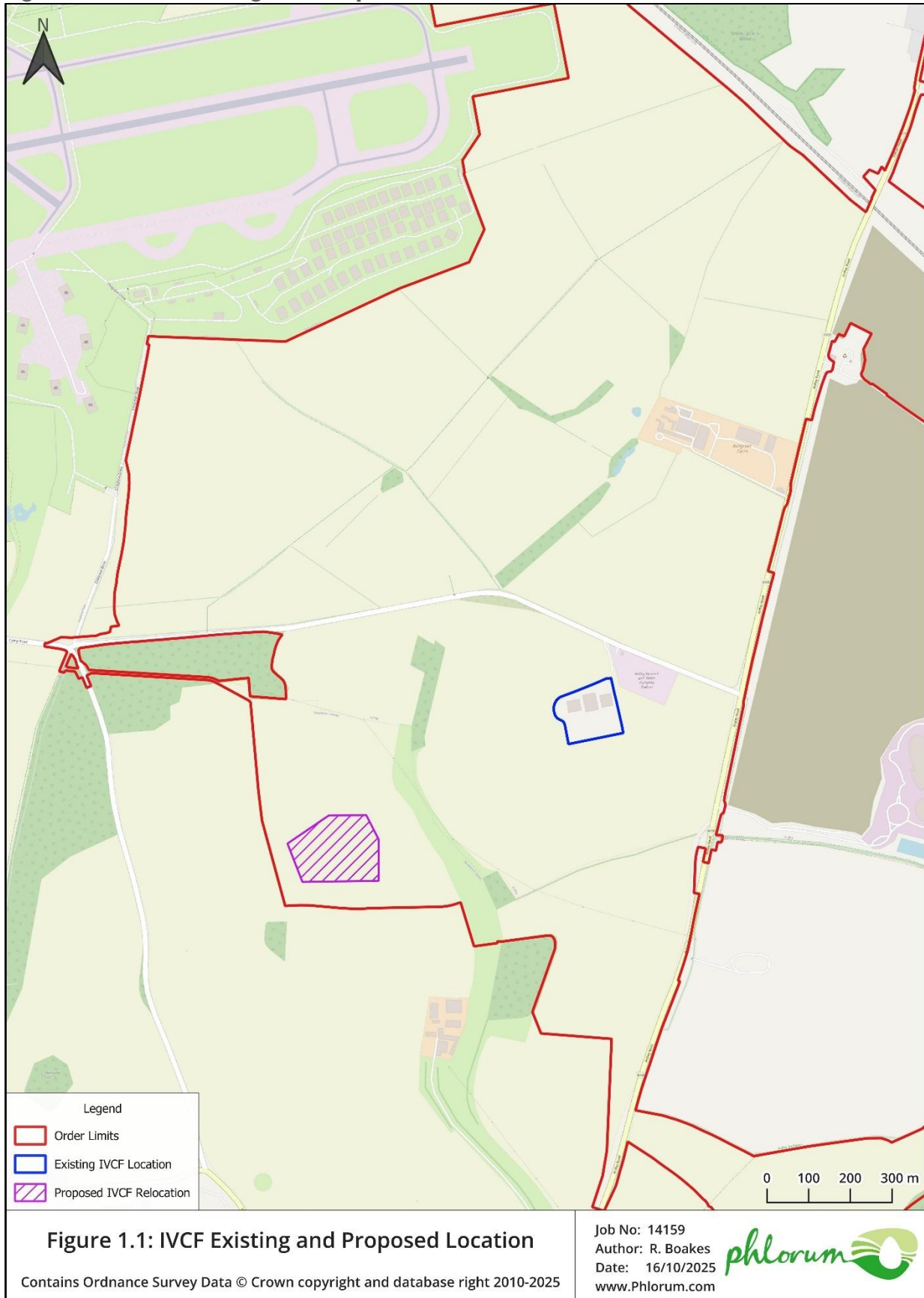
Main Site and IVCF Setting

- 1.4 The Main Site and IVCF are located south of the village of Ardley, within the administrative area of Cherwell District Council (CDC). **Figure 1.1** shows the location of the existing IVCF and the potential relocation site within the Main Site.
- 1.5 The existing IVCF is surrounded by agricultural land on all sides. Camp Road is located approximately 80m to the north, and the B430 Middleton Stoney Road is approximately 250m to the east. The closest existing sensitive receptors to the current IVCF are Ashgrove Farm, approximately 570m north, and Manor Farm, approximately 670m south, both of which include workplaces and residential dwellings. The Ardley Energy Recovery Facility (ERF) is located approximately 1.3 km east of the IVCF. The ERF receives non-recyclable municipal waste and uses combustion to generate electricity.
- 1.6 The IVCF processes organic household waste; the treatment of which is undertaken in accordance with its Environmental Permit. The IVCF comprises several sources of odour which vary in frequency and strength, such as the delivery and reception of fresh waste, and the handling and composting of these wastes in windrows.

Development Proposals

- 1.7 As part of the development of the OxSRFI proposal, consideration has been given to the potential to relocate the existing IVCF approximately 670m southwest from its current position. The potential relocation site would be in the southwestern corner of the Main Site.

Figure 1.1: IVCF Existing and Proposed Location



2. LEGISLATION AND PLANNING POLICY

National Planning Policy

National Networks National Policy Statement

- 2.1 The National Networks National Policy Statement (NPS)¹ was last updated in May 2024 and sets out the need for, and the government's policies to deliver, development of Nationally Significant Infrastructure Projects (NSIPs) in England. With respect to odour, the following sections of the NPS are relevant to this assessment:

"4.71 National road and rail networks and strategic rail freight interchanges have the potential to affect the health, well-being and quality of life of the population. New or enhanced national network infrastructure may have direct impacts on health because of traffic, noise, vibration, air quality and emissions, light pollution, community severance, dust, odour, polluting water, hazardous waste and pests..."

"5.117 As well as noise and vibration (paragraph numbers 5.227 to 5.242) the construction and operation of national networks infrastructure has the potential to create a range of emissions such as odour, dust, steam, smoke and artificial light. All have the potential to have a detrimental impact on amenity or cause a common law nuisance or statutory nuisance under Part III, Environmental Protection Act 1990..."

"5.120 The applicant should assess the potential for emissions of odour, dust, steam, smoke and artificial light to have a detrimental impact on amenity."

"5.123 The Secretary of State should ensure the applicant has provided sufficient information to show that any necessary mitigation will be put into place. In particular, the Secretary of State should consider whether to require the applicant to abide by a scheme of management and mitigation concerning emissions of odour, dust, steam, smoke, and artificial light from the development to reduce any loss to amenity which might arise during the construction and operation of the development..."

"5.124 The Secretary of State should be satisfied that all reasonable steps have been taken, and will be taken, to minimise any detrimental impact on amenity from emissions of odour, dust, steam, smoke and artificial light..."

National Planning Policy Framework

- 2.2 The National Planning Policy Framework² (NPPF) was last updated in February 2025 and sets out the Government' planning policies for England and how these are expected to be applied.

"Planning policies and decisions should contribute to and enhance the natural and local environment by:

[...]

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air

¹ UK Government (2024). National Networks National Policy Statement, HMSO London

² Ministry of Housing, Communities and Local Government (2025). National Planning Policy Framework, HMSO London

water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans:

[...]

- 2.3 With regards to assessing cumulative effects the NPPF² states:

“Ground conditions and pollution

Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development.”

Local Planning Policy

Cherwell Local Plan 2011 - 2031

- 2.4 The CDC Local Plan was adopted in July 2015³. The Local Plan sets out strategic development plans for Cherwell until 2031. The following policy relates to odour:

“Policy ENV1 Development likely to cause detrimental levels of pollution

Development which is likely to cause materially detrimental levels of noise, vibration, smell, smoke, fumes or other type of environmental pollution will not be permitted.

[...]

Where a source of pollution is already established and cannot be abated, the Council will seek to limit its effect by ensuring that development within the affected area maintains a suitable distance from the pollution source”.

Cherwell Local Plan Review 2042

- 2.5 The Cherwell Local Plan Review 2042 Proposed Submission Document (Regulation 19 version)⁴ was published in December 2024. The emerging local plan from this review will guide the council’s decisions on planning applications and contribute to the achievement of sustainable development. Policies of relevance to odour are outlined below.

“Policy CSD 17: Pollution and Noise

Development will not be permitted if it results in an unacceptable risk to public health or safety, the environment, general amenity or existing uses due to the potential of [...] odour [...].”

- 2.6 The above policies were taken into consideration in the preparation of this report.

³ Cherwell District Council (2015) The Cherwell Local Plan 2011-2031

⁴ Cherwell District Council (2019). Cherwell Local Plan Review 2042 Proposed Submission Document (Regulation 19).

Odour Assessment Guidance

Institute of Air Quality Management Odour Guidance

- 2.7 The Institute of Air Quality Management (IAQM) released guidance in July 2018 entitled '*Guidance on the Assessment of Odour for Planning*'⁵. The document was created to provide guidance for planning with regard to odour. It details the major elements that should be included in an odour assessment and provides methodologies for sniff testing which were utilised in this assessment.
- 2.8 The IAQM guidance advocates a conceptual 'Source → Pathway → Receptor' linkage approach to odour assessment. The concept being that all three elements need to be in place for an odour impact to occur. The IAQM odour guidance is included in **Appendix A**.

⁵ Institute of Air Quality Management (2018) Guidance on the Assessment of Odour for Planning

3. METHODOLOGY

- 3.1 The methodology followed in this report is set out below. This assessment has relied on observational data, rather than the use of predictive techniques, which is an approach advocated in IAQM guidance:

“When coming to a conclusion on odour impact, the practitioner also needs to give the right amount of weight to the results provided by each tool according to how well-suited it is to the study scenario in question.

For instance, where the assessment is of an existing activity or process, empirical observations will usually be possible of what is happening on the ground: considerable weight should normally be given to the observational findings of community-based tools (complaints analysis, community surveys and odour diaries) and sensory assessments (such as sniff tests).”

Communication with Cherwell District Council and the Environment Agency

- 3.2 Consultation was undertaken with CDC and the Environment Agency (EA) to request any available odour complaint records relating to the IVCF. Copies of relevant parts of the Environmental Permit and Odour Management Plan (OMP) for the IVCF were also requested from the EA.

Methodology

- 3.3 The assessment methodology is summarised below. Results and discussion of each assessment method are detailed in the subsequent sections under the appropriate headings.
- Review of Meteorological Conditions – three years of hourly sequential meteorological data were obtained and a meteorological analysis undertaken. Local meteorological conditions were analysed with regard to the existing and potential relocated IVCF sites, and the prevailing wind direction determined.
 - Review of Sensitive Receptor Locations – the locations of existing and proposed receptors sensitive to odours were reviewed to identify the closest existing and proposed receptors to the existing and relocated IVCF sites. Consideration was also given to the level of amenity that might be expected at each receptor location, using IAQM guidance⁵.
 - Review of Odour Complaints – a review of odour complaints data provided by CDC and the EA was undertaken to identify the location of existing receptors where odour annoyance or nuisance might occur from the current operation of the IVCF.
 - Odour Sniff Testing – seven sniff tests were undertaken in accordance with IAQM guidance⁵ to determine baseline odour conditions in the vicinity of the Main Site, and to determine if there were any odours that might be associated with the IVCF.
 - Review of Potential Mitigation – a review of the findings of the assessment was undertaken to identify any mitigation measures that might be appropriate for minimising the exposure of future users of the Proposed Development to IVCF odours. The effect of potential operational changes that could be incorporated into the relocated IVCF were also considered.

4. REVIEW OF METEOROLOGICAL CONDITIONS

- 4.1 A review of meteorological conditions was undertaken to establish the prevailing wind direction in the area and to consider the likely influence of the IVCF on the local area, taking into consideration the prevailing wind direction. Three years of meteorological data were obtained for the Weston-on-the-Green recording station for the most recent years of data available (2022, 2023, and 2024).
- 4.2 The Western-on-the-Green meteorological station is located 8.6km south of the Main Site. This meteorological station is considered to be representative of conditions at the Main Site due to the similar elevation and setting in predominantly flat agricultural areas. The wind roses for 2022 – 2024 are detailed in **Figures 4.1 – 4.3**.

Figure 4.1: 2022 Western-on-the-Green Wind Rose

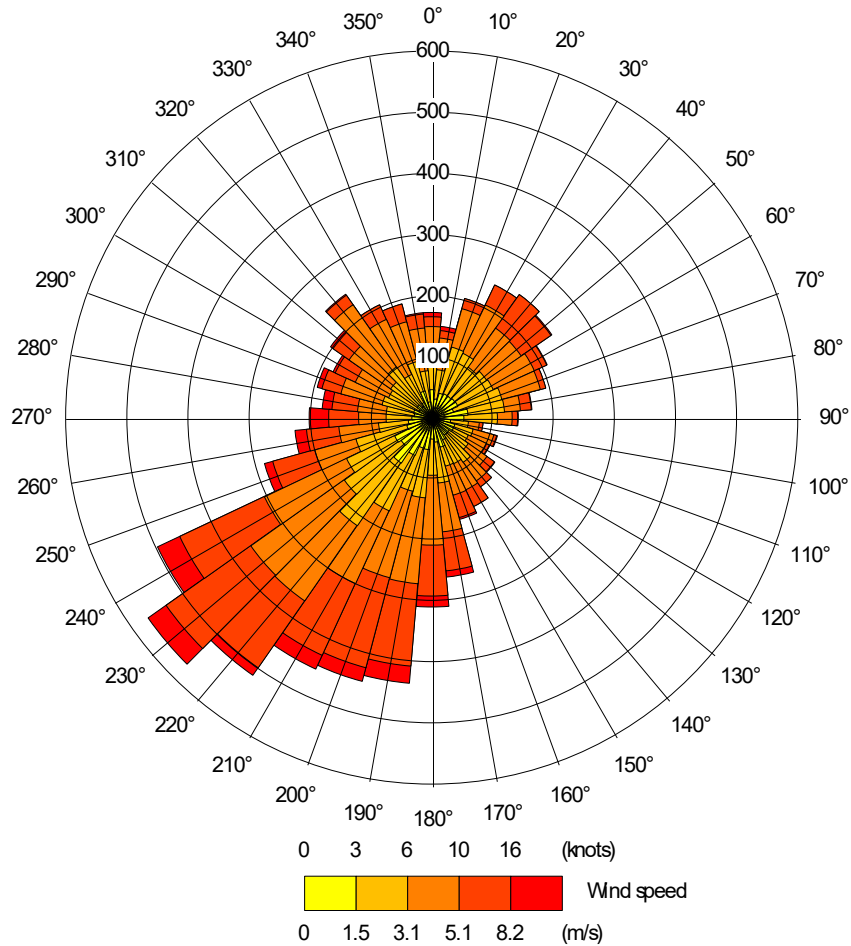


Figure 4.2: 2023 Western-on-the-Green Wind Rose

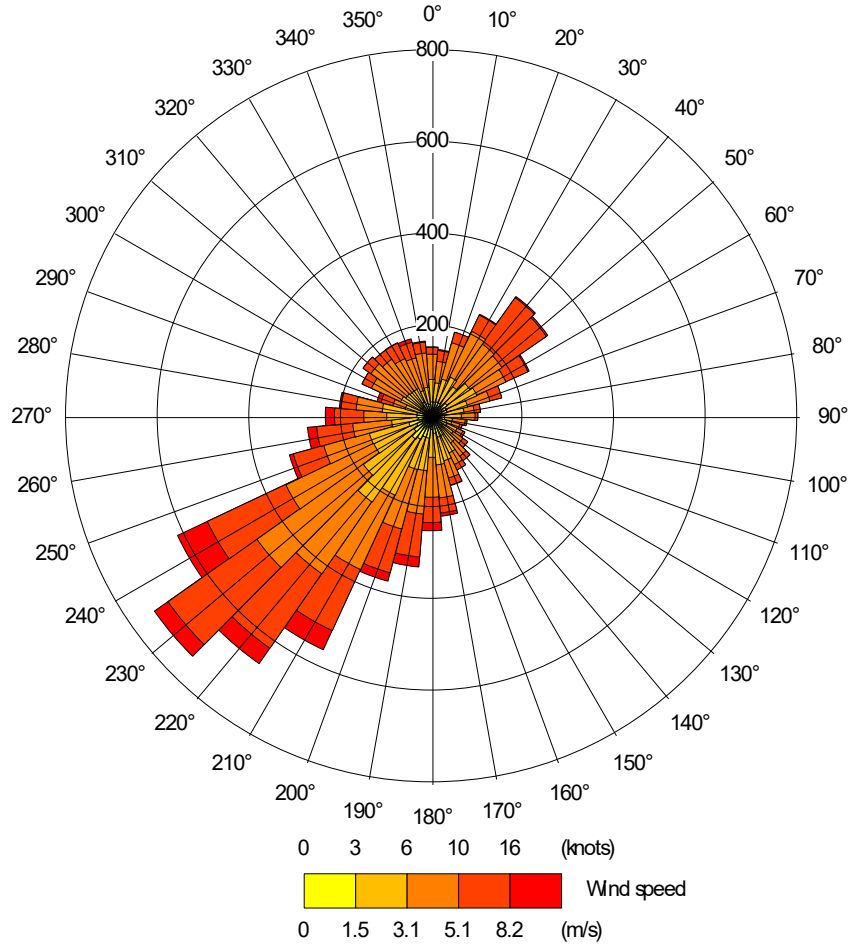
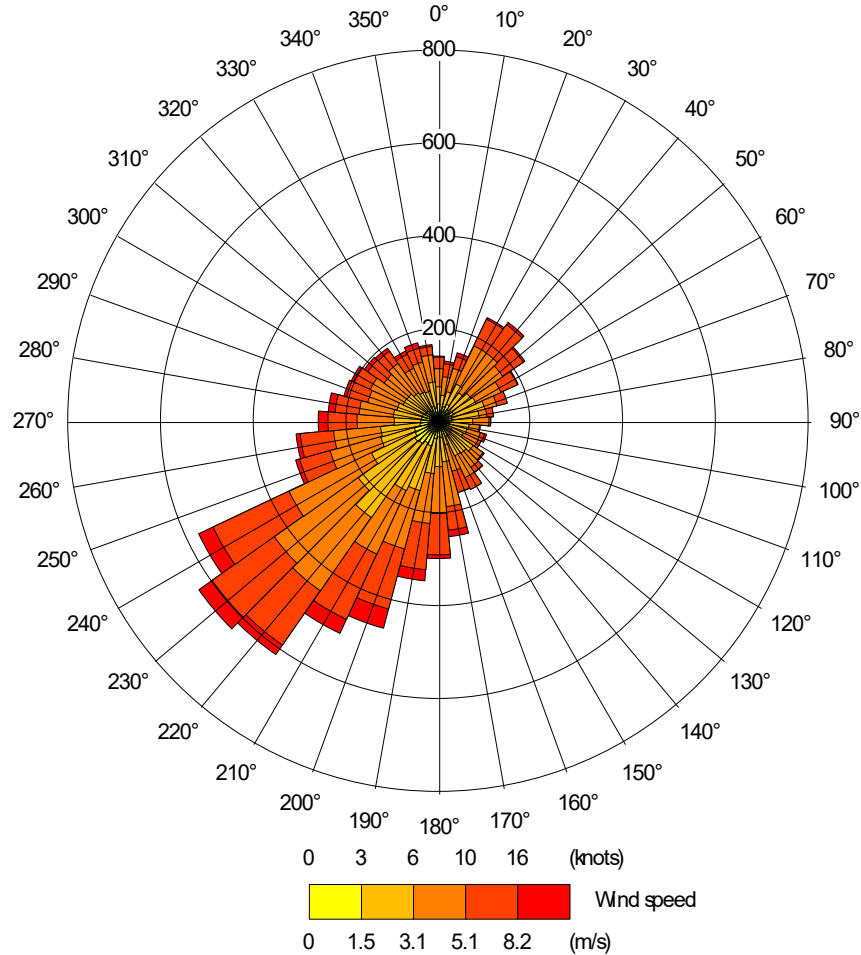


Figure 4.3: 2024 Western-on-the-Green Wind Rose



4.3 **Figures 4.1 – 4.3** indicate a prevailing wind direction from the southwest. An analysis of the wind direction across the three years was undertaken and is summarised in **Table 4.1**.

Table 4.1: Wind Direction by Percentage 2022-2024

| Wind Direction (from) | Degrees (°) | Percentage of the Year (%) on Average |
|-----------------------|------------------|---------------------------------------|
| N | 338 - 23 | 9 |
| NE | 23 - 68 | 12 |
| E | 68 - 113 | 6 |
| SE | 113 - 158 | 7 |
| S | 158 - 203 | 16 |
| SW | 203 - 248 | 29 |
| W | 248 - 293 | 12 |
| NW | 293 - 338 | 10 |

4.4 **Table 4.1** shows the prevailing wind direction is from the south and southwest (i.e. for 45% of the data period, from 2022 to 2024). The Proposed Development would place some commercial receptor locations (e.g. warehouses and offices) downwind of the IVCF, in both its existing and relocated locations. These might therefore be exposed to elevated odour risks.

5. REVIEW OF RECEPTOR LOCATIONS AND SENSITIVITY

- 5.1 The sensitivity to odour of different land uses depends on a number of factors, including the duration and frequency of odour impact. The sensitivity of a land use is also influenced by the level of amenity that would typically be expected for that land use, with residential uses usually being most sensitive.
- 5.2 IAQM guidance⁵ recommends that in determining receptor sensitivity (i.e. high, medium or low sensitivity), professional judgement should be used. The general principles for determining odour sensitivity are set out in **Table 5.1**.

Table 5.1: Receptor Sensitivity to Odours

| Sensitivity | Examples and Rationale |
|--------------------|--|
| High sensitivity | Surrounding land where: <ul style="list-style-type: none"> • Users can reasonably expect a high level of amenity; and • People would reasonably be expected to be present here continuously, or at least regularly for extended periods, as part of the normal pattern of use of the land. Examples may include residential dwellings, hospitals, schools and tourist / cultural attractions. |
| Medium sensitivity | Surrounding land where: <ul style="list-style-type: none"> • Users would expect to enjoy a reasonable level of amenity, but wouldn't reasonably expect to enjoy the same level of amenity as in their home; or • People wouldn't reasonably be expected to be present here continuously or regularly for extended periods as part of the normal pattern of use of the land. Examples may include places of work, commercial / retail premises and playing fields / outdoor recreational space. |
| Low sensitivity | Surrounding land where: <ul style="list-style-type: none"> • The enjoyment of amenity would not reasonably be expected; or • There is transient exposure, where the people would reasonably be expected to be present only for limited periods of time as part of the normal pattern of use of the land. Examples may include industrial uses, farms, footpaths and roads. |

Existing Sensitive Receptors

- 5.3 There are existing sensitive land uses in the vicinity of the current IVCF location. Their sensitivity and location relative to the existing and potentially relocated IVCF are shown in **Table 5.2**.

Table 5.2: Sensitivity and Location of Existing Receptors

| Land Use | Sensitivity | Location relative to Existing IVCF | Location relative to Proposed IVCF |
|--|-------------|------------------------------------|------------------------------------|
| Residential dwellings – Ashgrove Cottages, B430 Station Road / Ardley Road | High | ~600m northeast, downwind | ~1.3km northeast, downwind |
| Residential dwelling – Ashgrove Farm | High | ~610m north, downwind | ~1.2km northeast, downwind |
| Residential dwelling – Manor Farm | High | ~750m south, upwind | ~420m southeast, upwind |
| Residential dwellings – Lower Heyford Road | High | ~1.6km southwest, upwind | ~900m southwest, upwind |
| Residential dwellings – Duvall Park, Camp Road | High | ~1.5km west, upwind | ~875m west, upwind |
| Valencia Waste Management offices – B430 Station Road | Medium | ~915m northeast, downwind | ~1.6km northeast, downwind |
| Workplaces – Ashgrove Farm | Medium | ~585m north, downwind | ~1.2km northeast, downwind |
| Workplace – Manor Farm | Medium | ~750m south, upwind | ~420m southeast, upwind |
| Public footpath and bridleway – north of Camp Road | Low | ~290m northwest, downwind | ~670m northeast, downwind |
| Public footpath and bridleway – east of B430 Ardley Road | Low | ~290m east, partially downwind | ~930m east, partially downwind |

5.4 **Table 5.2** shows that all existing sensitive land uses in the prevailing downwind direction of the IVCF would be located further from the IVCF when and if it was relocated. This would likely reduce the risk of adverse odour impacts. There are some residential receptors, such as Manor Farm, which would be brought closer to the IVCF if and when it was relocated. However, Manor Farm is south of the facility (so not directly affected by the prevailing wind direction), so it would likely be infrequently affected by odours from the existing or relocated IVCF (i.e. odours would only likely cause an impact when emissions were elevated and the wind was blowing towards it from the direction of the IVCF).

5.5 It should be noted that as part of the Proposed Development the residential dwellings at Ashgrove Cottages will cease to be used for residential purposes. These buildings may be utilised for employment uses alongside a Central Hub with a variety of communal uses and external recreation spaces, and therefore will still represent sensitive receptors when the Proposed Development becomes operational; however, an associated employment use would reasonably be considered less sensitive than a private residential property.

Proposed Sensitive Receptors

5.6 The Proposed Development will introduce new sensitive receptors relatively close to the proposed relocated IVCF. **Table 5.3** details the location of proposed sensitive receptors relative to the relocated IVCF, and their relative sensitivity, as determined using professional judgement and the IAQM guidance⁵. These are also shown in **Figure 5.1**. In terms of commercial uses, it should be noted that while loss of amenity would typically occur at a greater threshold than for most residential uses, different commercial uses typically have subjectively different sensitivities to

odours (e.g. an industrial use would probably be less sensitive than an office use). Furthermore, some employers may place greater importance than others on the need to provide a high quality workplace environment.

- 5.7 The Environmental Permit⁶ for the existing IVCF states that the “*facility must be at least 250m away from any residential property or workplace*”. A review of Defra’s Good Practice Guidance for Composting and Odour Control⁷ also states from conclusions of a survey of Environmental Health Practitioners “*complaints can extend over distances of 500m and more*”. The Environmental Permit for the existing IVFC is included in **Appendix B**.
- 5.8 As the prevailing wind direction is from the southwest, locations to the north and northeast of the proposed relocated IVCF would likely be exposed to greater odour risk, particularly within a few hundred metres of the IVCF.

Table 5.3: Sensitivity and Location of Nearest Proposed Receptors to Relocated IVCF

| Land Use | Distance & Direction from Relocated IVCF | Sensitivity | Prevailing Wind Direction relative to Relocated IVCF |
|--|--|-------------|--|
| Proposed workplace - northeast | 290m northeast | Medium | Downwind |
| Proposed workplace - north | 520m north | Medium | Partially downwind |
| Proposed car parking - northeast | 260m northeast | Low | Downwind |
| Proposed footpath and cycleway - west | 40m west | Low | Upwind |
| Proposed footpath and cycleway - south | 45m south | Low | Upwind |

⁶ Environmental Agency (2007) Environmental Permit Licence Number EAWML 86429

⁷ Defra (2009) Good Practice and Regulatory Guidance on Composting and Odour Control for Local Authorities

Figure 5.1: Location of Nearest Proposed Receptors to Relocated IVCF



6. REVIEW OF ODOUR COMPLAINTS

- 6.1 BWB contacted CDC and the EA several times in 2021 to obtain odour complaint records for the local area. Further requests were sent in 2022 and 2025. Phlorum issued a separate request in August 2025. Available records were provided in September and October 2025.
- 6.2 The records show dozens of odour complaints between 2010 and 2025 submitted to both CDC and the EA, relating to various sources and processes in the local area. Other potential odour sources in the area include the Ardley Fields Household Waste Recycling Facility, approximately 900m northeast of the existing IVCF, and the Ardley Energy Recovery Facility, approximately 670m east of the IVCF.
- 6.3 Over 40 of these complaints appear to be directly related to operations at the existing IVCF, highlighting that the IVCF has the potential to frequently cause odour nuisance at nearby receptor locations. The rate of complaints per year has generally reduced. However, two complaints were received in the summer of 2024.
- 6.4 Complaints were made as consistently in winter months as in summer months, and originated from various locations in the surrounding area. **Figure 6.1** indicates the locations where odour complaints directly relating to the IVCF were received. These locations are based on high-level location data received from CDC and the EA, so are only approximate.

Figure 6.1: Odour Complaints against the IVCF

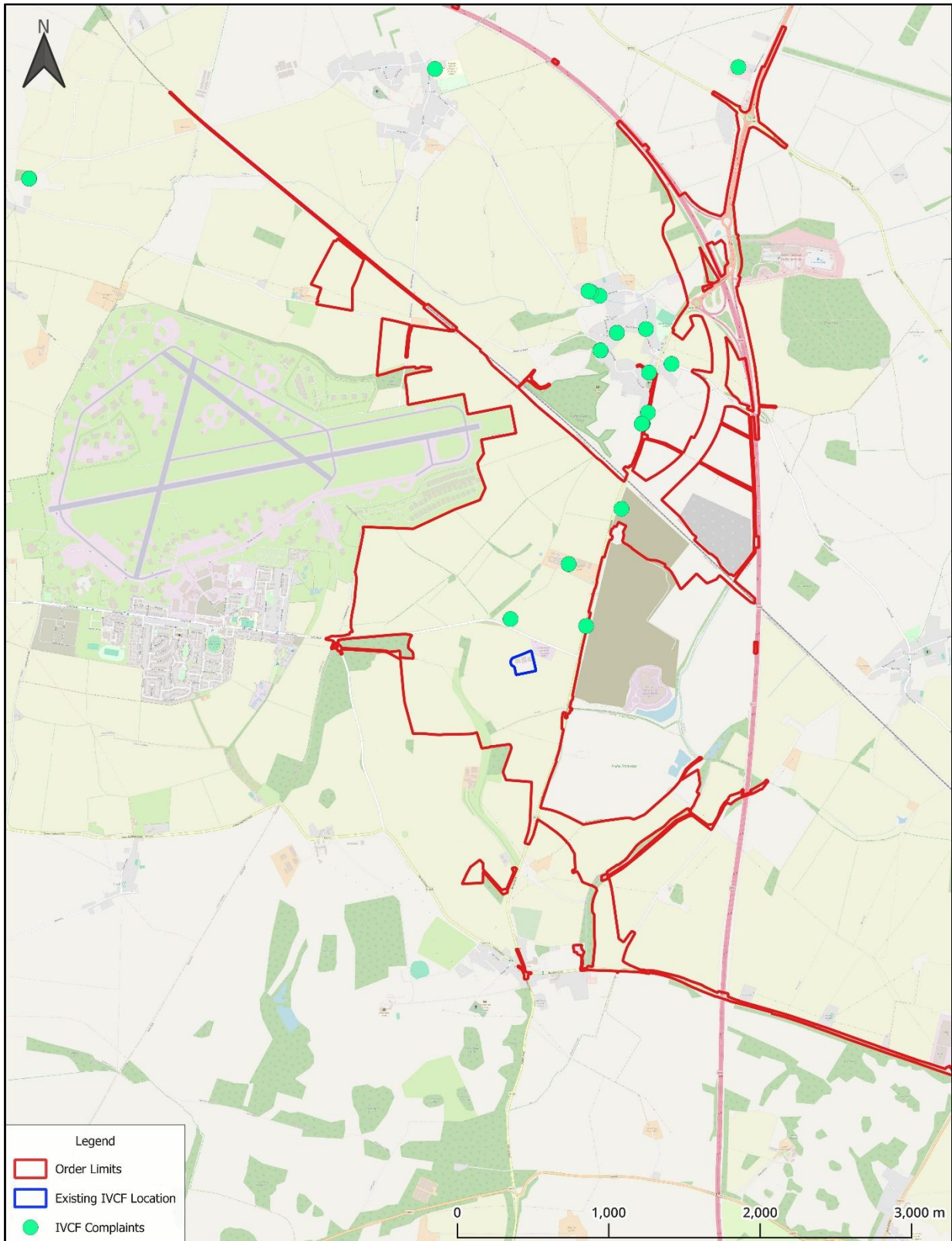


Figure 6.1: Odour Complaints against the IVCF

Contains Ordnance Survey Data © Crown copyright and database right 2010-2025

Job No: 14159
Author: R. Boakes
Date: 16/10/2025
www.Phlorum.com

-
- 6.5 There were other odour complaints made against the IVCF where details of the complainant's location were not provided, so these could not be presented in **Figure 6.1**. Similarly, there were circumstances where the exact source of odour was unknown and thus could not be attributed to the IVCF – these too are not presented in **Figure 6.1**.
- 6.6 Whilst noting that some locations are not provided, **Figure 6.1** shows that the majority of odour complaints have been raised from addresses in Ardley and Fewcott, the nearest villages to the north and northeast, downwind of the IVCF in the prevailing wind direction. These villages are located over 2.5km from the IVCF, suggesting odours can travel considerable distances across the local area.
- 6.7 It should also be noted that whilst the EA's permit conditions state that the IVCF must be further than 250m from the nearest residential property, and that Defra advises that complaints can be received over 500m from any facility, the complaints received all exceeded these distances. It is possible that some complaints were made from locations other than the addresses listed in the EA's and CDC's databases, but there are enough complaints centred around Ardley and Fewcott to suggest that odours from the IVCF do regularly impact these locations.
- 6.8 Based on the complaints evidence provided, it is reasonable to consider that odour nuisance in the local area has been caused by the operation of the IVCF.

7. ODOUR SNIFF TESTING SURVEYS

- 7.1 As odour is a human sense that is not easily replicated or interpreted artificially, measurement using human assessors remains the most effective way to collect direct observational data on odour impacts. Sniff tests provide such data based on the assessor’s opinion of the frequency, intensity, duration, and offensiveness of any odours detected.
- 7.2 It is recognised that sniff tests only provide a snapshot of the local odour environment and so surveys were carried out and timed in an attempt to best capture conservative conditions (i.e., when the weather was dry and mild, and winds were light).
- 7.3 Guidance⁵ provided by the IAQM details the recommended methodology for undertaking odour sniff testing in the field. This guidance was followed during the odour sniff testing surveys undertaken.

BWB’s Sniff Tests

- 7.4 Between September 2021 and October 2022, BWB undertook five odour sniff tests, with each survey location attended for a period of five minutes in accordance with IAQM guidance⁵. The odour intensity scale from guidance document VDI 940⁸, detailed in **Table 7.1**, was used to assign an intensity to any odours detected during each five minute sniff test. Also recorded were the character, pleasantness and approximate percentage odour time.

Table 7.1: VDI Odour Intensity Scale

| Odour Strength | Intensity Level | Description |
|--------------------|-----------------|--|
| No odour | 0 | No odour when compared to the clean Site. |
| Slight / very weak | 1 | There is probably some doubt as to whether the odour is actually present. |
| Slight / weak | 2 | The odour is present but cannot be described using precise words or terms. |
| Distinct | 3 | The odour character is barely recognisable. |
| Strong | 4 | The odour character is easily recognisable. |
| Very Strong | 5 | The odour is offensive. Exposure to this level would be considered undesirable. |
| Extremely Strong | 6 | The odour is offensive. An instinctive reaction would be to mitigate against further exposure. |

- 7.5 Odour sniff testing surveys were undertaken by BWB on three separate days in September 2021, with a further two sniff testing surveys undertaken in September and October 2022. A walkover around the existing IVCF was undertaken to determine baseline conditions. Survey transects were undertaken on the land surrounding the existing IVCF taking into consideration wind direction during the surveys.

⁸ Verein Deutscher Ingenieure. (2006). VDI 3940 Part 1: Measurement of Odour Impact by Field Inspection – Measurement of the Impact Frequency of Recognisable Odours Grid Measurement.

-
- 7.6 The odour sniff testing surveys were undertaken during above average temperatures, generally during a south-westerly wind and during reasonably calm conditions. These are considered to provide “*conditions favourable to odour detection*”, in accordance with IAQM guidance.
- 7.7 The generally accepted odour survey season is between April and September (odours generally have less impact in winter due to lower temperatures reducing bioactivity in some sources and there being lower sensitivity of many receptors because people tend to stay indoors and keep windows closed). The odour surveys were undertaken within and just outside of this period. The surveys undertaken just outside of this window are considered valid in the context that some odour complaints have been received outside of the spring/summer period.
- 7.8 Survey transects started at the furthest accessible survey points from the IVCF and then moved closer to the IVCF. This was to reduce odour fatigue, which can desensitise an assessor by their being exposed to stronger odours before they assess weaker odours (a phenomenon known as habituation). Transects were selected in line with the wind direction on that particular day.
- 7.9 The surveyors were well (i.e. did not have any cold symptoms) and followed the IAQM guidance⁵ for assessors prior to undertaking the surveys.
- 7.10 **Figure 7.1** illustrates the survey transects utilised in the assessment relative to the IVCF.

Figure 7.1: Odour Survey Transects

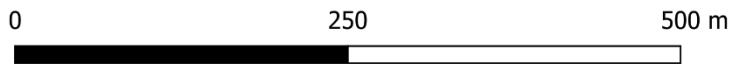


Figure 7.1: Odour Transects

Drawn by: HL
Date: 29/10/2025



Odour Survey One – 6th September 2021

- 7.11 Weather conditions during the survey were dry and warm, at approximately 23°C with a light breeze from the southwest. Sniff testing was undertaken along a 400m long transect in the field northeast of the IVCF.
- 7.12 Further sniff tests were undertaken during the walkover of the IVCF site to observe odours close to their emission sources.
- 7.13 A summary of the results of Survey One are included in **Table 7.2**. The intensity, offensiveness and the percentage of time that each odour was detected over the five-minute monitoring period are also provided.

Table 7.2: Sniff Testing Survey Results – Survey One - 6th September 2021

| Survey Location & Distance from IVCF | Surveyor | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------|---------------------------|--------------|---------------------|---------------------------|---------------------------------------|
| T1 – 540m | Surveyor 1 | Straw odour | Neutral | 1 | 5 | Farmer is collecting hay bales |
| | Surveyor 2 | Straw odour | Neutral | 2 | 10 | - |
| T1 – 340m | Surveyor 1 | Composting odour | Unpleasant | 2 | 5 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 2 | 5 | - |
| T1 – 290m | Surveyor 1 | Composting odour | Unpleasant | 2 | 5 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 2 | <5 | - |
| T1 – 240m | Surveyor 1 | Composting/ploughed field | Unpleasant | 2 | <5 | - |
| | | | | 4 | <5 | Lorry exits IVCF transporting compost |
| | Surveyor 2 | Manure/composting odour | Unpleasant | 2 | <5 | - |
| | | | | 4 | <5 | Lorry transporting compost from IVCF |
| T1 – 200m | Surveyor 1 | Composting odour | Unpleasant | 1 | 10 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 1 | <5 | - |
| T1 – 150m | Surveyor 1 | No odour | - | 0 | - | - |
| | Surveyor 2 | No odour | - | 0 | - | - |
| T1 – 120m | Surveyor 1 | No odour | - | 0 | - | - |
| | Surveyor 2 | Compost odour | Unpleasant | 1 | 1 | - |
| T1 – 100m | Surveyor 1 | No odour | - | 0 | - | - |
| | Surveyor 2 | No odour | - | 0 | - | - |
| T1 – 90m | Surveyor 1 | Composting odour | Neutral | 1 | <5 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 3 | 10 | Delivery received and |

| Survey Location & Distance from IVCF | Surveyor | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--|------------|---------------------------|--------------|---------------------|---------------------------|--|
| | | | | | | full wagon exiting IVCF |
| T1 – 80m | Surveyor 1 | Composting odour | Unpleasant | 2 | 40 | Next to IVCF entrance |
| | Surveyor 2 | Composting odour | Unpleasant | 4 | 50 | Entrance to IVCF |
| Existing Facility Sniff Testing Locations | | | | | | |
| 1 | Surveyor 1 | Composting odour | Unpleasant | 3 | 25 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 3 | 25 | - |
| 2 | Surveyor 1 | Composting odour | Unpleasant | 4 | 75 | - |
| | Surveyor 2 | Composting/manure odour | Unpleasant | 4 | 70 | Transfer of compost onto maturing pads witnessed |
| 3 | Surveyor 1 | Composting odour | Unpleasant | 5 | 95 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 4 | 40 | - |
| 4 | Surveyor 1 | Composting odour | Unpleasant | 5 | 100 | Next to the maturing pads |
| | Surveyor 2 | Composting odour | Unpleasant | 5 | 90 | Close to maturing pads |
| 5 | Surveyor 1 | Composting/ploughed field | Neutral | 3 | 75 | - |
| | Surveyor 2 | Composting odour | Unpleasant | 4 | 40 | - |

- 7.14 Odours detected during the survey included straw odours and composting odours. The straw odours were attributed to the farmer collecting hay bales within the field where the transect was undertaken. The odours were not considered offensive.
- 7.15 No constant odours associated with the IVCF were detected during any of the sniff testing periods along the transect. Composting odours were detected intermittently across the transect up to 340m from the IVCF. Whilst the odours detected were considered to be distinct, recognisable and unpleasant, they were of insufficient intensity (i.e. less than 5 in the IAQM’s intensity scale⁸) to be considered offensive.
- 7.16 Within the IVCF site, very strong offensive odours were detected at sniff test Location 3 and Location 4 which were on the eastern boundary of the IVCF. Odours were detected at these locations for durations up to 100% of the surveyed time. These locations were adjacent to the maturation pads within the IVCF, which were considered to represent the main source of fugitive odours associated with the IVCF. It was noted that the offensiveness and duration of odours detected reduced with increased distance from the IVCF.

Odour Survey Two – 8th September 2021

- 7.17 Weather conditions during the survey were warm and dry with temperatures between 23°C and 26°C and a gentle breeze from the east and southeast. **Table 7.3** details the survey results of

Survey Two. One surveyor attended and completed surveys along four transects in fields to the west and northwest of the IVCF to observe odours downwind of the IVCF.

Table 7.3: Sniff Testing Survey Results - Survey Two - 8th September 2021

| Survey Location & Distance from IVCF | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------------|--------------|---------------------|---------------------------|--|
| Transect 1 | | | | | |
| T1-220m | Composting odour | Unpleasant | 4 | 30 | - |
| T1-170m | Composting odour | Unpleasant | 4 | 45 | - |
| T1-145m | Composting odour | Unpleasant | 4 | 50 | - |
| T1-120m | Composting odour | Unpleasant | 4 | 50 | - |
| T1-105m | Composting odour | Unpleasant | 5 | 10 | - |
| | | | 4 | 55 | |
| T1-90m | Composting odour | Unpleasant | 5 | 70 | - |
| T1-75m | Composting odour | Unpleasant | 4 | 60 | - |
| | | | 5 | 10 | |
| T1-60m | Composting odour | Unpleasant | 4 | 50 | - |
| | | | 5 | 10 | |
| | | | | | Witnessed composting being moved within IVCF |
| T1-45m | Composting odour | Unpleasant | 4 | 55 | - |
| T1-30m (closest point to IVCF) | Composting odour | Unpleasant | 5 | 60 | - |
| Transect 2 | | | | | |
| T2-300m | Composting odour | Unpleasant | 2 | 10 | - |
| T2-250m | Composting odour | Unpleasant | 2 | 10 | - |
| T2-200m | Composting odour | Unpleasant | 2 | 15 | - |
| T2-150m | Composting odour | Unpleasant | 2 | 15 | - |
| T2-125m | Composting odour | Unpleasant | 2 | 10 | - |
| | | | 2 | 10 | |
| T2-110m | Composting odour | Unpleasant | 4 | 5 | Witnessed tipper being used within IVCF to transport and tip compost |
| | | | | | |
| T2-100m (closest point to IVCF) | Composting odour | Unpleasant | 1 | 5 | Next to a hedge which may influence dispersion |
| Transect 3 | | | | | |
| T3-330m | Composting odour | Unpleasant | 4 | 55 | - |
| T3-320m | Composting odour | Unpleasant | 4 | 50 | - |

| Survey Location & Distance from IVCF | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------------|--------------|---------------------|---------------------------|--|
| T3-315m | Composting odour | Unpleasant | 4 | 50 | - |
| T3-305m | Composting odour | Unpleasant | 4 | 60 | - |
| T3-290m (edge to adjacent field) | Composting odour | Unpleasant | 4 | 55 | - |
| Transect 4 | | | | | |
| T4-570m | No odour | - | - | - | - |
| T4-470m | Composting odour | Unpleasant | 4 | 30 | - |
| | | | 2 | 15 | |
| T4-520m | Composting odour | Unpleasant | 4 | 30 | - |
| | | | 2 | 10 | |
| T4-495m | Composting odour | Unpleasant | 4 | 30 | - |
| | | | 2 | 10 | |
| T4-470m | Composting odour | Unpleasant | 4 | 20 | - |
| | | | 2 | 10 | |
| T4-405m | Composting odour | Unpleasant | 4 | 40 | - |
| | | | 2 | 10 | |
| T4-370m (closest point to IVCF) | Composting odour | Unpleasant | 4 | 20 | Next to a hedge which may influence dispersion |
| | | | 2 | 10 | |

7.18 Compost odours were detected at survey locations within each of the Transect locations, with the greatest detection duration experienced on Transects 1 and 3. These Transects were located closest to the IVCF and downwind of the IVCF, when taking into consideration the wind direction detected during the survey.

7.19 Odours were detected at a maximum intensity of 5 which is defined as very strong and offensive in accordance with VDI 3940 guidance. Odours of an offensive nature were detected for up to 70% of the survey time within Transect 1 at 90m distance from the IVCF. Odours were also detected at an intensity of 4 which is defined as Strong and easily recognisable in accordance with VDI 3940 guidance, up to a 470m distance from the IVCF. Odours that were considered to be offensive were detected during Survey Two up to 105m from the IVCF boundary.

Odour Survey Three – 15th September 2021

7.20 Weather conditions during Survey Three were mild and dry with temperatures around 16°C and a north to north-westerly wind. **Table 7.4** details the survey results. One surveyor undertook the survey in fields to the south and east of the IVCF – i.e. in downwind directions.

Table 7.4: Sniff Testing Survey Results – Survey Three - 15th September 2021

| Survey Location & Distance from IVCF | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------------|--------------|---------------------|---------------------------|----------|
| Transect 1 | | | | | |
| T1-220m | Composting odour | Unpleasant | 4 | 80 | - |
| T1-170m | Composting odour | Unpleasant | 4 | 70 | - |

| Survey Location & Distance from IVCF | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------------|--------------|---------------------|---------------------------|--|
| T1-145m | Composting odour | Unpleasant | 4 | 70 | Odour when winds are elevated |
| T1-120m | Composting odour | Unpleasant | 4 | 55 | - |
| T1-95m | Composting odour | Unpleasant | 4 | 10 | - |
| T1-70m | Composting odour | Unpleasant | 4 | 40 | Witnessed steam emanating from the composting beds |
| T1-45m | Composting odour | Unpleasant | 4 | 50 | Intermittent breeze |
| T1-35m | Composting odour | Unpleasant | 4 | 60 | Intermittent breeze |
| T1-25m | Composting odour | Unpleasant | 2 | 40 | By a hedge next to the site |
| Transect 2 | | | | | |
| T2-220m | No odour | - | - | - | - |
| T2-170m | No odour | - | - | - | - |
| T2-120m | Composting odour | Neutral | 1 | 5 | - |
| T2-95m | Composting odour | Unpleasant | 3 | <5 | - |
| T2-70m | Composting odour | Unpleasant | 4 | 60 | - |
| T2-45m | Composting odour | Unpleasant | 4 | 75 | - |
| T2-25m | Composting odour | Unpleasant | 4 | 30 | By a hedge next to the site. |
| Transect 3 | | | | | |
| T3-200m | No odour | - | - | - | - |
| T3-150m | No odour | - | - | - | - |
| T3-100m | No odour | - | - | - | - |
| T3-50m | Composting odour | Unpleasant | 2 | <10 | - |
| T3-25m | Composting odour | Unpleasant | 4 | 50 | - |
| T3-5m | Composting odour | Unpleasant | 4 | 65 | - |

7.21 During Survey Three, composting odours were detected frequently across Transect 1, up to 220m from the IVCF for up to 80% of the time. Odours associated with the IVCF were considered to be strong and easily recognisable.

Odour Survey Four – 22nd September 2022

7.22 Weather conditions during Survey Four were warm and dry with temperatures between 20°C and 23°C and a southerly wind. **Table 7.5** details the survey results. Two surveyors attended and undertook the survey in the field to the north of the existing IVCF, in the downwind direction. A Transect was surveyed starting at a location 280m north of the IVCF and moving closer to it. A further spot sniff test was undertaken at the entrance to the IVCF site.

Table 7.5: Sniff Testing Survey Results – Survey Four - 22nd September 2022

| Survey Location & Distance from IVCF | Surveyor | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------|----------------------|--------------|---------------------|---------------------------|--|
| T1 – 280m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 80 | - |
| | Surveyor 2 | Compost | Unpleasant | 5 | 70 | - |
| T1 – 255m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 80 | - |
| | Surveyor 2 | Compost | Unpleasant | 5 | 70 | - |
| T1 – 230m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 80 | - |
| | Surveyor 2 | Compost | Unpleasant | 5 | 60 | - |
| T1 – 205m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 75 | - |
| | | | | 5 | 5 | |
| T1 – 180m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 80 | - |
| | Surveyor 2 | Compost | Unpleasant | 5 | 80 | - |
| T1 – 155m | Surveyor 1 | Compost / dry manure | Unpleasant | 5 | 80 | - |
| | Surveyor 2 | Compost | Unpleasant | 4 | 70 | - |
| T1 – 130m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 10 | - |
| | | | | 5 | 70 | |
| T1 – 105m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 10 | Field slopes down, survey location below hedge |
| | | | | 5 | 50 | |
| T1 – 90m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 50 | Field slopes down, survey location below hedge |
| | | | | | | |
| T1 – 80m | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 50 | - |
| | | | | 5 | 20 | |
| ST1 | Surveyor 1 | Compost / dry manure | Unpleasant | 4 | 50 | - |
| | | | | 5 | 30 | |
| | Surveyor 2 | Compost | Unpleasant | 4 | 75 | - |

7.23 Strong and offensive odours were detected across the length of the Transect surveyed, for up to 80% of the time at some distances. In discussions with the farmer prior to undertaking Survey Four, it was advised that the fields had been sprayed with compost in the weeks prior to Survey Four and that there had been no rain in the intervening period. It is therefore possible that the intensity and frequency of odours detected during Survey Four was influenced by compost materials within the field, and not solely from operations at the IVCF.

Odour Survey Five – 9th October 2022

7.24 Weather conditions during Survey Five were warm and dry with temperatures between 17°C and 21°C and a southerly wind. **Table 7.6** details the survey results. Two surveyors attended to undertake the odour sniff testing in the field to the north of the existing IVCF, in the downwind direction. A transect was surveyed starting at a location 280m north of the IVCF and moving towards to IVCF. A further spot sniff test was undertaken at the entrance to the IVCF site.

Table 7.6: Sniff Testing Survey Results – Survey Five – 9th October 2022

| Survey Location & Distance from IVCF | Surveyor | Character | Pleasantness | VDI Intensity Scale | Percentage Odour Time (%) | Comments |
|--------------------------------------|------------|-----------|--------------|---------------------|---------------------------|--|
| T1 – 280m | Surveyor 1 | Compost | Unpleasant | 3 | <10 | - |
| | Surveyor 2 | Compost | Unpleasant | 3 | <5 | - |
| T1 – 255m | Surveyor 1 | Compost | Unpleasant | 3 | <10 | - |
| | Surveyor 2 | Compost | Unpleasant | 3 | <5 | - |
| T1 – 230m | Surveyor 1 | Compost | Unpleasant | 3 | 15 | - |
| | Surveyor 2 | Compost | Unpleasant | 3 | 15 | - |
| T1 – 205m | Surveyor 1 | Compost | Unpleasant | 4 | 30 | - |
| | Surveyor 2 | Compost | Unpleasant | 3 | 10 | - |
| T1 – 180m | Surveyor 1 | Compost | Unpleasant | 4 | 30 | - |
| | Surveyor 2 | Compost | Unpleasant | 4 | 10 | - |
| T1 – 155m | Surveyor 1 | Compost | Unpleasant | 4 | 50 | - |
| | Surveyor 2 | Compost | Unpleasant | 4 | 20 | - |
| T1 – 130m | Surveyor 1 | Compost | Unpleasant | 4 | 50 | - |
| | Surveyor 2 | Compost | Unpleasant | 4 | 10 | - |
| T1 – 105m | Surveyor 1 | Compost | Unpleasant | 3 | 30 | Field slopes down, survey location below hedge |
| | Surveyor 2 | Compost | Unpleasant | 4 | <5 | - |
| T1 – 90m | Surveyor 1 | Compost | Unpleasant | 3 | 25 | Field slopes down, survey location below hedge |
| | Surveyor 2 | Compost | Unpleasant | 3 | <5 | - |
| T1 – 80m | Surveyor 1 | Compost | Unpleasant | 4 | 15 | - |
| | Surveyor 2 | Compost | Unpleasant | 4 | 10 | - |
| ST1 | Surveyor 1 | Compost | Unpleasant | 4 | 30 | - |
| | Surveyor 2 | Compost | Unpleasant | 3 | <5 | - |

7.25 Odours considered to be associated with the IVCF were detected at all survey locations, and while these were intermittent, they were present for up to 50% of the time, 155m from the IVCF. Odours detected during the survey were considered to be of intensities of 3 and 4 across the transect. In accordance with the VDI guidance⁸, whilst an intensity of 3 is considered distinct, an intensity of 4 is considered strong and easily recognisable.

Phlorum Sniff Tests

- 7.26 The above results from BWB’s five sniff tests provide useful evidence that strong and often offensive odours are released from the IVCF and that they can travel hundreds of metres downwind.
- 7.27 In order to update the assessment, and in acknowledging Phlorum’s role in picking up the remainder of the odour assessment work required, an additional two sniff tests were undertaken in 2025. These provide increased robustness to the odour assessment.
- 7.28 The approach to the additional odour surveys followed the methodologies recommended in the IAQM’s latest guidance on the assessment of odour for planning. A number of steps were taken to safeguard the quality of each odour survey, as per IAQM guidance. These included:
- The olfactory sensitivity of the two assessors have been identified using UKAS-accredited methods and established to be within the ‘Normal’ range;
 - The odour assessors were in full health, with no cold, flu, or COVID-19 symptoms;
 - The assessors had a rest period following the long travel time to the site;
 - The assessors consumed no confectionery, soft drinks, or food prior to the survey.
- 7.29 Two surveys were undertaken on the 9th and 19th of September 2025, when the weather was warm, dry and winds were gentle to moderate. The surveys sampled at 22 locations in the vicinity of the IVCF to provide a qualitative description of any odours detected, as well as quantification of their intensity and frequency.
- 7.30 At each survey location, 20 samples of odour were taken using the assessor’s sense of smell. As advocated in the latest IAQM odour guidance, the German National Guidelines (VDI 3940:1993) for the determination of odorants in ambient air was used to assess the intensity of odours. Following best practice guidance, odour surveys always started either upwind or well-distanced from the source of odours, to prevent the likelihood of odour fatigue affecting the assessor.
- 7.31 This information was recorded on an odour assessment reporting sheet, which also includes details of meteorological conditions. The reporting sheets are provided in **Appendix C**. Survey location points are indicated on **Figure 7.2**.
- 7.32 From this information, the odour exposure at each sample point can be defined, by comparing the average intensity from the VDI scale with the percentage odour time during the sample. IAQM guidance provides a matrix for this, which is reproduced in **Table 7.7** below. These odour exposure scores can then be used to predict the effect of odours on proposed land uses, according to IAQM guidance, as per **Table 7.8**, below.

Table 7.7: Matrix to assess odour exposure at time and place of sampling

| Average Intensity Level (VDI Scale) | Percentage Odour Time (%) | | | | |
|-------------------------------------|---------------------------|------------|------------|------------|------------|
| | 10% | 11 to 20% | 21 to 30% | 31 to 40% | ≥ 41% |
| 6 | Large | Very Large | Very Large | Very Large | Very Large |
| 5 | Medium | Large | Large | Very Large | Very Large |
| 4 | Small | Medium | Medium | Large | Large |
| 3 | Small | Medium | Medium | Medium | Medium |

| Average Intensity Level (VDI Scale) | Percentage Odour Time (%) | | | | |
|-------------------------------------|---------------------------|-----------|-----------|-----------|--------|
| | 10% | 11 to 20% | 21 to 30% | 31 to 40% | ≥ 41% |
| 2 | Small | Small | Medium | Medium | Medium |
| 1 | Small | Small | Small | N/A | N/A |

Table 7.8: Matrix to assess odour effect at individual receptors

| Average Intensity Level (VDI Scale) | Receptor Sensitivity (See Table 5.1) | | |
|-------------------------------------|--------------------------------------|-------------|-------------|
| | Low | Medium | High |
| Very Large | Substantial | Substantial | Substantial |
| Large | Moderate | Moderate | Substantial |
| Medium | Slight | Slight | Moderate |
| Small | Negligible | Negligible | Slight |

7.33 Where the magnitude of effect for a chosen receptor location is greater than “slight adverse”, according to the IAQM criteria, the effect could potentially be considered significant.

Figure 7.2: Phlorum's Sniff Test Locations

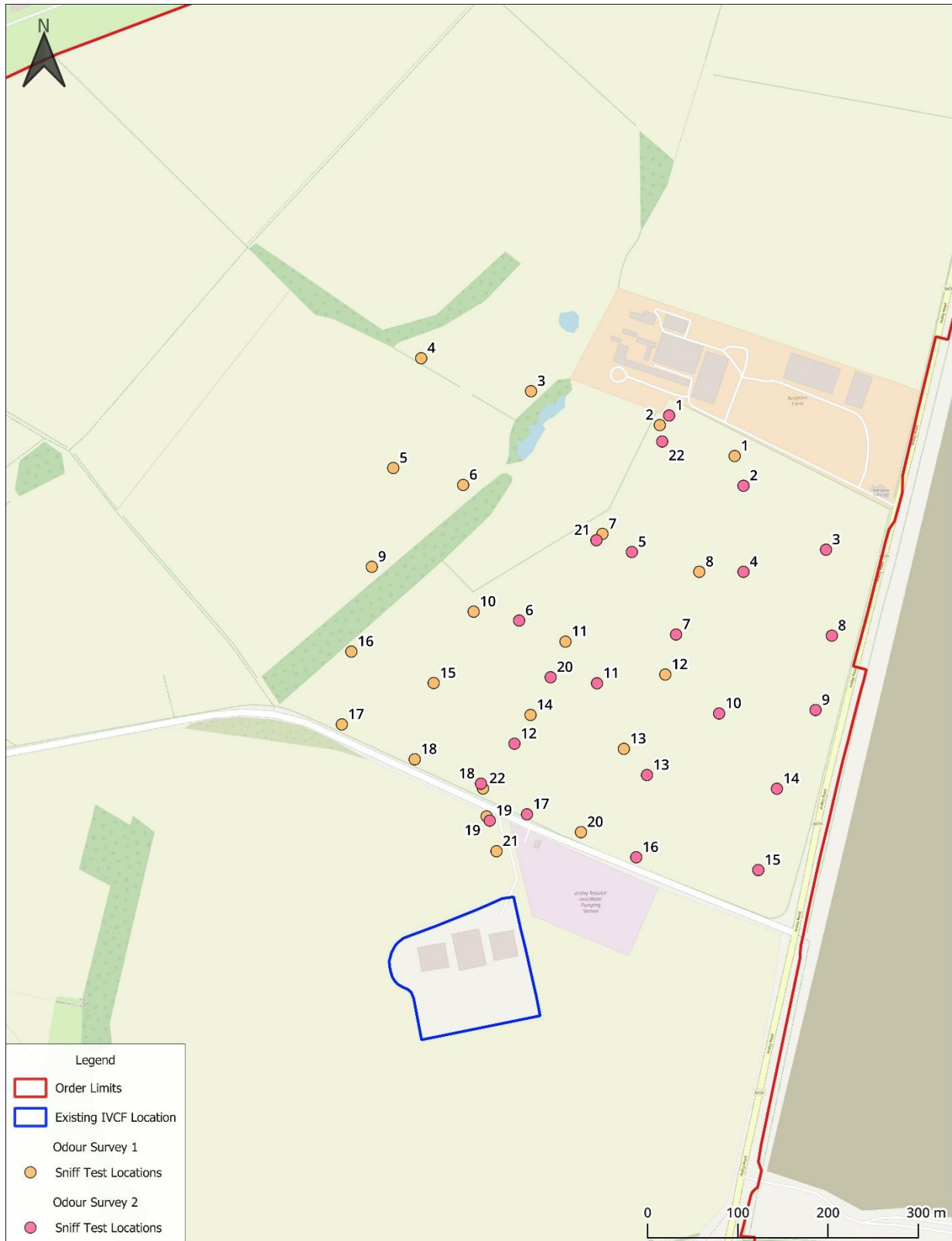


Figure 7.2: Phlorum's Sniff Test Locations
Contains Ordnance Survey Data © Crown copyright and database right 2010-2025

Job No: 14159
Author: R. Boakes
Date: 16/10/2025
www.Phlorum.com

7.34 **Tables 7.9 and 7.10** below summarise the results of the two sniff tests. Both sniff tests were undertaken by two assessors – the below results show the strongest odours identified by either assessor at each location.

Table 7.9: Phlorum’s Sniff Testing Survey Results from 9th September 2025

| Survey Location | | Average Intensity | Maximum Intensity | Percentage Odour Time (%) | Odour Exposure | Description / Source |
|-----------------|----------------------|-------------------|-------------------|---------------------------|----------------|--|
| Survey 1 | Distance to IVCF (m) | | | | | |
| 1 | 550 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 2 | 550 | 1 | 2 | 0 | Negligible | - |
| 3 | 560 | 2 | 2 | 0 | Negligible | - |
| 4 | 600 | 1 | 2 | 0 | Negligible | - |
| 5 | 490 | 1 | 2 | 0 | Negligible | - |
| 6 | 460 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 7 | 410 | 3 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 8 | 420 | 1 | 2 | 0 | Negligible | - |
| 9 | 400 | 1 | 1 | 0 | Negligible | - |
| 10 | 320 | 3 | 4 | 10 | Small | Putrid, Sweet, Earthy, Organic – Compost |
| 11 | 280 | 3 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 12 | 290 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 13 | 210 | 4 | 4 | 60 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 14 | 200 | 4 | 4 | 55 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 15 | 250 | 3 | 4 | 5 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 16 | 310 | 1 | 1 | 0 | Negligible | - |
| 17 | 250 | 1 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 18 | 180 | 3 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 19 | 90 | 4 | 5 | 100 | Large | Putrid, Sweet, Earthy, Organic – Compost |

| Survey Location | | Average Intensity | Maximum Intensity | Percentage Odour Time (%) | Odour Exposure | Description / Source |
|-----------------|----------------------|-------------------|-------------------|---------------------------|----------------|--|
| Survey 1 | Distance to IVCF (m) | | | | | |
| 20 | 110 | 3 | 4 | 20 | Medium | Putrid, Sweet, Earthy, Organic – Compost |
| 21 | 50 | 4 | 4 | 100 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 22 | 120 | 3 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |

Table 7.10: Phlorum’s Sniff Testing Survey Results from 19th September 2025

| Survey Location | | Average Intensity | Maximum Intensity | Percentage Odour Time (%) | Odour Exposure | Description / Source |
|-----------------|----------------------|-------------------|-------------------|---------------------------|----------------|--|
| Survey 2 | Distance to IVCF (m) | | | | | |
| 1 | 560 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Organic – Compost |
| 2 | 520 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Organic – Compost |
| 3 | 520 | 2 | 2 | 0 | Negligible | - |
| 4 | 450 | 1 | 3 | 0 | Negligible | Putrid, Sweet, Organic – Compost |
| 5 | 410 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Organic – Compost |
| 6 | 310 | 4 | 5 | 75 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 7 | 345 | 2 | 4 | 10 | Small | Putrid, Sweet, Earthy, Organic – Compost |
| 8 | 460 | 1 | 2 | 0 | Negligible | - |
| 9 | 400 | 1 | 2 | 0 | Negligible | - |
| 10 | 310 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 11 | 260 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Earthy, Organic – Compost |
| 12 | 160 | 4 | 5 | 75 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 13 | 200 | 2 | 2 | 0 | Negligible | - |
| 14 | 320 | 2 | 2 | 0 | Negligible | - |
| 15 | 280 | 2 | 2 | 0 | Negligible | - |

| Survey Location | | Average Intensity | Maximum Intensity | Percentage Odour Time (%) | Odour Exposure | Description / Source |
|-----------------|----------------------|-------------------|-------------------|---------------------------|----------------|--|
| Survey 2 | Distance to IVCF (m) | | | | | |
| 16 | 140 | 2 | 3 | 0 | Negligible | Putrid, Sweet, Organic – Compost |
| 17 | 90 | 4 | 5 | 85 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 18 | 130 | 3 | 4 | 45 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 19 | 90 | 4 | 5 | 90 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 20 | 250 | 4 | 5 | 100 | Large | Putrid, Sweet, Earthy, Organic – Compost |
| 21 | 410 | 3 | 4 | 35 | Medium | Putrid, Sweet, Earthy, Organic – Compost |
| 22 | 535 | 4 | 4 | 90 | Large | Putrid, Sweet, Earthy, Organic – Compost |

- 7.35 The sniff test results presented in Table 7.9 and 7.10 show that strong odours are frequently emitted from the existing IVCF. Strong and unpleasant odours associated with the IVCF were detected throughout both sniff tests, when the assessors were standing downwind.
- 7.36 Towards the end of the 2nd sniff test, odours were detected easily and consistently at a distance of 535m from the IVCF. According to the IAQM’s odour exposure score matrix (see **Table 7.7** and **Table 7.8**), these odours were strong and pervasive enough to score “Large”. For *Low* and *Medium Sensitivity* receptors, such a score is predicted by the IAQM to elicit a *Moderately Adverse* effect, which can be considered significantly adverse.
- 7.37 Based on these results, it is considered reasonable to anticipate that any users / occupiers of workplaces, footpaths, cycleways or car parks located within 535m of a relocated IVCF could also be exposed to significantly adverse odours. As is shown in **Table 5.3**, the proposed development will situate such uses within a distance of 535m of the proposed relocated IVCF.

8. SUMMARY OF FINDINGS

- 8.1 Over 40 odour complaints associated with the operation of the IVCF have been received by both CDC and the EA over the past 15 years, from complainants as far as a few kilometres away, and often in the nearby villages of Ardley and Fewcott.
- 8.2 As part of the Proposed Development, it would be physically possible to relocate the IVCF to a new location within the Main Site, and a location in the southwest corner of the Main Site has been considered. This relocation would place the IVCF further from the closest existing downwind sensitive receptors than the current IVCF location. This is considered to present a benefit to these receptors as the increased separation distance would reduce the likely impact of odours at these receptors. However, a relocated IVCF would place it in the vicinity of a number of proposed sensitive receptors within the Proposed Development, including new workplaces, car parking areas, footpaths and cycleways and communal recreational spaces.
- 8.3 Odours associated with the existing IVCF were detected during each of the seven odour sniff testing surveys undertaken. Strong and often offensive odours were detected at regular intervals, with the furthest strong and persistent odours being detected as far as 535m from the IVCF.
- 8.4 With many of the proposed receptors being downwind of the potentially relocated IVCF, it is likely that some receptors would experience strong and potentially frequent odours associated with it.
- 8.5 The current EA permit for the IVCF specifies that it should not be located within 250m of existing residential or workplace receptors. Defra also advises that complaints can be received over 500m from composting facilities. The local odour complaints records corroborate this, as do the results of the recent sniff tests, which all indicate that odours from the IVCF can and often do spread many hundreds of meters from it.
- 8.6 Consequently, it is considered reasonable to expect that a relocated IVCF would cause significantly adverse odour effects at proposed receptors within the Proposed Development.

Mitigation Measures

- 8.7 As part of the consideration of a relocated IVCF within the Main Site, a review of the potential effects of potential mitigation measures to minimise odour impacts has been undertaken. These measures are listed below.
- Creation of a bund and tall evergreen planting between the potential location for the relocated IVCF and the closest downwind receptors to reduce and disrupt (causing turbulence, which increases dispersion) airflow through it. Such planting would also create a visible screen, which can help reduce the perception of a source causing odour nuisance.
 - If possible, design air ventilation inlets on those proposed buildings closest to the IVCF so that they are as far as possible, and/or upwind, of the potential location for the relocated IVCF. This could reduce the potential for odours to enter these buildings.
- 8.8 Given that odour complaints have been received at considerable distances from the existing IVCF, the use of screening and bunds alongside a relocated IVCF is unlikely to stop further complaints from off-site locations and is unlikely to significantly reduce the odour effects on receptors within the Main Site once the Proposed Development is operational

Future IVCF Operations

- 8.9 As part of any potential relocation of the IVCF, the relocated IVCF would comprise a new facility that would likely incorporate a number of changes to improve its operation. Potential improvements could include the enlargement of the waste reception building. This would hold more wastes within the confines of an enclosed space, which could reduce fugitive releases of odours. It would also enable front end picking of wastes, which could reduce contamination of different wastes and allow the area where wastes would be picked/loaded into composting vessels to be limited, thus potentially reducing the disturbance of odorous materials and hence reducing some odour emissions. There could also be a larger maturation pad, which would allow the creation of wider and shorter rows of waste materials to be stored, which could reduce anaerobic conditions within piles of wastes (such conditions typically causing the most offensive odours from composting processes). A larger maturation pad would also likely allow more efficient handling of odorous wastes.
- 8.10 Whilst these changes could allow an increase in the throughput of waste at the relocated IVCF, it was assumed, for the purposes of this assessment, and having regard to the points outlined above, that this would not significantly alter current odour emission rates.
- 8.11 It is understood that an Environmental Permit would need to be obtained for a relocated IVCF. This would likely be broadly in line with the current permit. As part of any amended or new permit, the associated Odour Management Plan (OMP) would need to be updated to reflect the revised operations at a relocated IVCF.
- 8.12 Whilst an upgraded and possibly expanded IVCF would probably not cause a worsening of odour conditions in the wider area, the complaints records and sniff testing results suggest that there remains a risk of adverse odour impacts at receptors further afield, including in the villages of Ardley and Fewcott.
- 8.13 As the existing IVCF has been shown to generate strong and offensive odours in close proximity to it, there would also likely remain a risk of strong and offensive odours being detected at new receptors at the Proposed Development.

9. CONCLUSIONS

- 9.1 It was established early in the design development process (see scheme evolution details set out in the Design Approach Document) that the existing In Vessel Composting Facility (IVCF) could not be retained in its current location. Consideration has been given to the potential to relocate the existing IVCF to the southwest corner of the Main Site. Based on the assessment undertaken, it is our view that an IVCF in this location within the Proposed Development would present a significant risk that new receptors at the Proposed Development would be adversely affected.
- 9.2 Odour complaint records show that numerous complaints have been received in recent years that appear to be linked to the current operation of the IVCF. Many of these complaints were from residents in Ardley and Fewcott, approximately 2.5 – 3.5km from the IVCF. This suggests that strong odours emitted from the IVCF can cause impacts at locations relatively far from it.
- 9.3 Sniff testing in 2021, 2022 and 2025 found that strong and persistent odours associated with the IVCF were detected as far as 535m from it. New receptors within the Proposed Development (i.e. warehouses, offices, parking, footpaths and cycleways and communal recreation spaces) would be located significantly closer to a relocated IVCF and, as such, they would likely be exposed to an elevated risk of adverse odour impacts.
- 9.4 Mitigation measures (including a standoff buffer, siting more sensitive commercial uses further away on the Main Site and dense vegetation planting) that might reduce some emissions of odours from a relocated IVCF are unlikely to significantly reduce all adverse odour impacts, particularly at nearby uses.
- 9.5 Whilst a relocated IVCF could incorporate several efficiency and operational changes that might reduce odour emissions from it, these could be offset by potential increases in throughput, such that there would likely be no material worsening of odours, but perhaps no substantial improvement. For the purposes of this assessment, therefore, it has been assumed that a relocated facility would have the same odour emission rates as the existing facility.
- 9.6 In summary, there is a significant risk of adverse odour impact on new receptors within the Proposed Development as a result of a relocated IVCF facility.

Appendix A – IAQM Odour Guidance

Appendix B – IVCF Environmental Permit



Appendix C – Phlorum’s Sniff Test Survey Sheets

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Avg. Intensity | % Time | Description/Source | Odour Exposure | |
|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----------------|--------|--------------------|----------------------|------------|
| 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0% | - | Negligible |
| 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0% | - | Negligible |
| 3 | 0 | 0 | 0 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 4 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0% | - | Negligible |
| 5 | | | | | | | | | | | | | | | | | | | | | N/A | 0% | Surveyor 1 Only | Negligible | |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 0% | Sweet/Earthy/Organic | Negligible |
| 7 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 0% | Sweet/Earthy/Organic | Negligible |
| 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0% | - | Negligible |
| 9 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | - | Negligible |
| 10 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 10% | Sweet/Earthy/Organic | Small |
| 11 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 3 | 0% | Sweet/Earthy/Organic | Negligible |
| 12 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 1 | 0% | Sweet/Earthy/Organic | Negligible |
| 13 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 4 | 60% | Sweet/Earthy/Organic | Large |
| 14 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 45% | Sweet/Earthy/Organic | Medium |
| 15 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 5% | Sweet/Earthy/Organic | Negligible |
| 16 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | - | Negligible |
| 17 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0% | Sweet/Earthy/Organic | Negligible |
| 18 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0% | Sweet/Earthy/Organic | Negligible |
| 19 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100% | Sweet/Earthy/Organic | Large |
| 20 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 15% | Sweet/Earthy/Organic | Medium |
| 21 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 95% | Sweet/Earthy/Organic | Large |
| 22 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | Sweet/Earthy/Organic | Negligible |

Weather: Dry and Sunny (1/8 Cloud Cover)
 Wind Direction (From): S
 Beaufort Wind Scale: 3 (Gentle Breeze), with occasional gusts
 Temperature: 19-23°C
 Pressure: 1015mb
 Relative Humidity: 42%



Date: 09.09.2025
 Time: 11:15 - 13:15



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Avg-Intensity | % Time | Description/Source | Odour Exposure | |
|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---------------|--------|--------------------|----------------------|------------|
| 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0% | Sweet/Earthy/Organic | Negligible |
| 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0% | - | Negligible |
| 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 0% | - | Negligible |
| 4 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 0% | - | Negligible |
| 5 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0% | - | Negligible |
| 6 | | | | | | | | | | | | | | | | | | | | | N/A | 0% | Surveyor 2 Only | | |
| 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0% | Sweet/Earthy/Organic | Negligible |
| 8 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 9 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0% | - | Negligible |
| 10 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0% | - | Negligible |
| 11 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 0% | Sweet/Earthy/Organic | Negligible |
| 12 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 0% | Sweet/Earthy/Organic | Negligible |
| 13 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 20% | Sweet/Earthy/Organic | Medium |
| 14 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 55% | Sweet/Earthy/Organic | Large |
| 15 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0% | Sweet/Earthy/Organic | Negligible |
| 16 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 17 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 18 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 0% | Sweet/Earthy/Organic | Negligible |
| 19 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 95% | Sweet/Earthy/Organic | Large |
| 20 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 20% | Sweet/Earthy/Organic | Medium |
| 21 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100% | Sweet/Earthy/Organic | Large |
| 22 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 0% | Sweet/Earthy/Organic | Negligible |

Weather: Dry and Sunny (1/8 Cloud Cover)
 Wind Direction (From): S
 Beaufort Wind Scale: 3 (Gentle Breeze), with occasional gusts
 Temperature: 19-23°C
 Pressure: 1015mb
 Relative Humidity: 42%



Date: 09.09.2025
 Time: 11:15 - 13:15



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Avg-Intensity | % Time | Description/Source | Odour Exposure | |
|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---------------|--------|--------------------|------------------------|------------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 0% | - | Negligible |
| 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 0% | Damp | Negligible |
| 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | Burnt/acrid | Negligible |
| 4 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 0% | Burnt/acrid | Negligible |
| 5 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | Damp, sweet | Negligible |
| 6 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 55% | Sweet, Organic | Large |
| 7 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5% | - | Small |
| 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 11 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 12 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 50% | Sweet, Earthy, Organic | Large |
| 13 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 0% | - | Negligible |
| 14 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 15 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 16 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 17 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 85% | Sweet, Earthy, Organic | Large |
| 18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 45% | Sweet, Earthy, Organic | Medium |
| 19 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 65% | Sweet, Earthy, Organic | Large |
| 20 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100% | Sweet, Earthy, Organic | Large |
| 21 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 35% | Sweet, Earthy, Organic | Medium |
| 22 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 90% | Sweet, Earthy, Organic | Large |

Weather: Dry, Warm, 3/8 Cloud Cover
 Wind Direction (From): SSW - SSE (varied)
 Beaufort Wind Scale: 3 - 4 (Gentle to Moderate Breeze), with occasional gusts
 Temperature: 19-23°C
 Pressure: 1019 - 1017mb
 Relative Humidity: 85 - 60%



Date: 19.09.2025
 Time: 11:00 - 13:15



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Avg-Intensity | % Time | Description/Source | Odour Exposure | |
|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---------------|--------|--------------------|------------------------|------------|
| 1 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 0% | Sweet, Organic | Negligible |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 0% | Sweet, Organic | Negligible |
| 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 0% | Sweet, Organic | Negligible |
| 5 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | Sweet, Organic | Negligible |
| 6 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 3 | 5 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 75% | Sweet, Earthy, Organic | Large |
| 7 | 4 | 3 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 10% | Sweet, Earthy, Organic | Small |
| 8 | 1 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0% | Sweet, Organic | Negligible |
| 9 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0% | - | Negligible |
| 10 | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | Sweet, Organic | Negligible |
| 11 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | Sweet, Organic | Negligible |
| 12 | 4 | 4 | 5 | 4 | 3 | 2 | 5 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 75% | Sweet, Earthy, Organic | Large |
| 13 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 14 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0% | - | Negligible |
| 15 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0% | - | Negligible |
| 16 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 0% | Sweet, Organic | Negligible |
| 17 | 3 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 3 | 5 | 5 | 4 | 4 | 4 | 3 | 2 | 4 | 4 | 3 | 4 | 4 | 4 | 75% | Sweet, Earthy, Organic | Large |
| 18 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5% | Sweet, Earthy, Organic | Negligible |
| 19 | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 5 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 90% | Sweet, Earthy, Organic | Large |
| 20 | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 100% | Sweet, Earthy, Organic | Large |
| 21 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 35% | Sweet, Earthy, Organic | Medium |
| 22 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 90% | Sweet, Earthy, Organic | Large |

Weather: Dry, Warm, 3/8 Cloud Cover
 Wind Direction (From): SSW - SSE (varied)
 Beaufort Wind Scale: 3 - 4 (Gentle to Moderate Breeze), with occasional gusts
 Temperature: 19-23°C
 Pressure: 1019 - 1017mb
 Relative Humidity: 85 - 60%



Date: 19.09.2025
 Time: 11:00 - 13:15



Phlorum Limited

Head Office & Registered Office:

Unit 12
Hunns Mere Way
Woodingdean
Brighton
East Sussex
BN2 6AH
T: 01273 307 167

