

BRADGATE BAKERY

Noise Management Plan

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Reviewed by:	Katharine Nethercot
Authorised by:	Neil Traynor

1. INTRODUCTION

Bradgate Bakery comprises of two separate site locations, Madeline Road and Ashton Green. Both sites undertake the production of sandwiches, pastas and salads for supermarkets and convenience stores throughout the UK.

This Noise Management Plan outlines the methods by which Bradgate Bakery will systematically assess and minimise the potential impacts of noise generated from both Ashton Green and Madeline Road. The Noise Management Plan is a working document with the specific aim of ensuring that:

- Noise is primarily controlled at source to ensure a minimum decibel level, wherever reasonably practicable, by good operational controls, including physical and management control measures.
- All appropriate measures are taken to prevent or reduce noise emissions from the site to nearby receptors.

The Noise Management Plan addresses the source of noise release, and the control measures employed to mitigate the risk to sensitive receptors. These are supported through monitoring procedures to identify both elevated levels and review complaints should they arise. The complaints management procedures, including the management responsibilities, are also addressed.

The methodologies presented in this plan take full account of Environment Agency (EA) guidance documentation Technical Guidance Note IPPC H3 (part 2), Horizontal Guidance for Noise Assessment and Control.

2. SOURCES, PATHWAYS, RECEPTORS, AND IMPACTS

Noise generated and pathways will be similar across both Bradgate Bakery sites, therefore this management plan is applicable across Madeline Road and Ashton Green.

Table 1: Sources of Noise Generated at Bradgate Bakery:

Noise Source	Condition	Location	Nature of noise & potential times	Impact of noise
Vehicles (HGV's, FLT's, Cars)	Normal	Despatch & Intake yard. Staff car park	Engine type noise, intermittent, 24/7	Low
Boilers	Normal	Plant room	Humming, Intermittent, 24/7	Low
Mechanical Handling Equipment	Normal	Yard	Engine type noise, Intermittent, 24/7	Low
Compressors	Normal	Plant Room	Humming, Intermittent, 24/7	Low
Loading / Unloading Trailers	Normal	Loading / Unloading Docks	Low Rumbling, Intermittent, 24/7	Low

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Contribution to overall emissions at Ashton Green has been determined by an independent environmental noise assessment carried out in November 2018 as part of a planning application. No external noise assessments have been carried out at Madeline Road

As not all the sources of noise mentioned above are continuous, the sources of noise will vary throughout the day. When generated, the pathway for noise to sensitive receptors will be via the air. The noise received by these receptors depends on the degree of attenuation provided by:

- Distance from source.
- Attenuation provided by the type of ground.
- Screening by walls, banks, other buildings.
- Wind direction.
- Meteorological conditions, such as temperature inversions and gradients.
- Atmospheric absorption.

Sensitive noise receptors include nearby residential properties. The noise assessment carried out at Ashton Green indicates that with the implementation of mitigation measures, the noise levels likely to be generated by the site will not have an adverse impact at these identified settlements, resulting in a low overall risk.

Table 2: Noise Sensitive Receptors

Receptor	Receptor Description	Distance to site boundary	Background noise level at each receptor (L _{A90})		Specific noise level at receptor during operation		Target operational level
			Day	Night	Day	Night	
1	Edgbaston Close (north)	115m	44	38	38		5dB below background level
1a	Edgbaston Close (south)	150m	44	38	45		5dB below background level
2	Farm to the east	75m	41	39	28		5dB below background level
3	Greengate Lane	280m	51	37	24		5dB below background level
4	Croft Road	70m	TBE	TBE	TBE		5dB below background level

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Figure 1: Map of Sensitive Receptors – Ashton Green

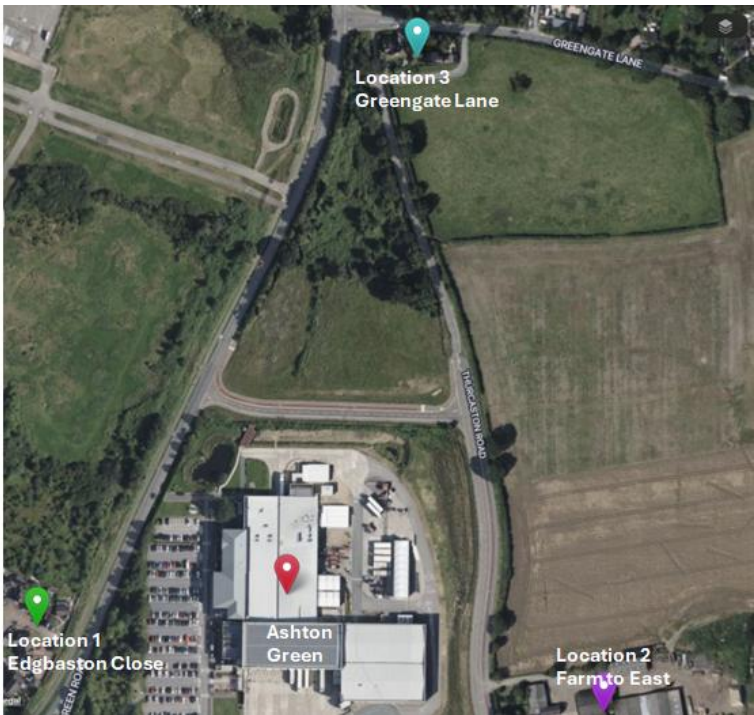


Figure 2: Map of Sensitive Receptors – Madeline Road



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3. NOISE CONTROL MEASURES

A comprehensive range of physical and management measures have been identified and implemented to control noise at Bradgate Bakery. These are discussed in the table below.

The acoustic barrier has been included at Ashton Green due to the aspect of the site – the plant room at Ashton Green faces a residential estate, which is separated from the site by a road. Upon receipt of a complaint from a resident, which was investigated, it was identified that the noise from the plant would reach this receptor. Madeline Road’s plant room is screened from sensitive receptors due to the aspect of the site.

Table 3: Noise Control Measures

Type of control Measure	Control Measures	Relevant Site
Physical	Landscaping around site boundary form a natural sound barrier to residential areas.	Both
Physical	Sound proofing fencing installed to reduce noise at location 1 from plant room and distribution yard at Ashton Green.	Ashton Green
Physical	Embankment to reduce noise at farm to east.	Ashton Green
Physical	Speed reduction humps in place to ensure speed restriction compliance.	Both
Physical	Location of Madeline Road site places loading/unloading docks below road level and creates natural sound barrier.	Madeline Road
Management	All plant and equipment will be regularly maintained to ensure that no item will produce excessive noise.	Both
Management	A speed limit of 5mph will be in place at both sites.	Both
Management	Regular briefings are carried out to ensure drivers do not communicate using horns when on site.	Both
Management	Site staff are made aware they are working in the vicinity of residential receptors and should avoid all unnecessary noise due to misuse of tools and equipment.	Both
Management	Staff will be trained to operate the equipment and plant without causing excess noise.	Both
Management	All doors and windows will be kept closed, except when access is required to attenuate any sound generated within the building.	Both
Management	Waste collections at Madeline Road are prohibited between the times of 05:30 – 06:30 and 13:30 – 14:30.	Madeline Road
Management	Yard operation times are regularly reviewed to limit any noise from forklift truck operations.	Both

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4. SITE MANAGEMENT RESPONSIBILITIES

The SHE Team is responsible for monitoring, auditing and evaluation of site environmental performance, however individual Departments and Managers are responsible for the effective operation and maintenance of equipment or plant, and behaviours of personnel to ensure that nuisances and hazards due to noise, arising from site operations are minimised.

The SHE Manager or designated responsible person(s) has the responsibility to ensure that current and planned site operations with the potential to generate noise nuisance beyond the site boundaries are raised at weekly management meetings and will ensure that risk levels are assessed and reviewed as appropriate

If at any time it is necessary to undertake temporary actions that are likely to cause elevated levels of noise, the SHE Team and/or designated responsible person(s) will contact the Environment Agency and any other interested parties before such actions are undertaken and inform them of the operations being undertaken and that the elevated levels of noise will be of a temporary nature.

5. MONITORING

All operational staff will be responsible for reporting any abnormal elevated noise to the SHE Team and/or designated responsible person(s)

No quantitative routine noise monitoring is carried out; however qualitative monitoring of noise levels takes place in the form of daily noise checks undertaken at the site boundary by Hygiene staff and recorded on the Team Leader check sheets. Check sheets are audited by the SHE team as part of the compliance audit program.

Routine maintenance of all plant and equipment managed by the Engineering department will also identify equipment operating at elevated noise levels and work will be undertaken to repair the defect.

6. NOISE CONTINGENCY MEASURES

Elevated levels of noise may be identified either by:

- Receipt of a noise complaint from a member of the public, the Environment Agency or other third party.
- Detection of abnormal noise level at the site during routine monitoring by site personnel.

This section details the contingency measures in place to identify the source of elevated noise.

Noise Source Investigation

There is an archive of daily monitoring forms, which is maintained by the Hygiene Team plus copies of complaints held in the Environmental Management System (EMS) and EVOTIX, the

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Samworth group Safety & Environmental assurance and reporting system.

As part of the EMS, an environmental complaints procedure is implemented. This complaints procedure will cover all environmental complaints including odour, light, and noise.

All complaints from members of the public, the Environment Agency, or other statutory authorities and/or third parties will be forwarded to the SHE Team and/or designated responsible person(s) to action and log in EVOTIX and record in the EMS within 72 hours of their receipt. This is to allow for weekends and bank holidays.

The SHE Team and/or designated responsible person will ensure:

- The complaint is investigated to identify the source and route cause.
- In the event of elevated levels of noise, the presence of abnormal on-site activity shall be assessed, and preventative action taken to prevent a reoccurrence.
- All complaint investigations are logged in EVOTIX, then documented and stored as part of the EMS.
- The complainant will be contacted, where possible, and given information on the investigations conducted and actions taken as appropriate.
- If a complaint is received from or is likely to involve a statutory authority (such as the Environment Agency), then the senior leadership team (SLT) of Bradgate Bakery will be informed.
- All complaints will be reported to the management at site meetings and management reviews.
- If the investigation indicates that the complaint has not been justified this will be clearly recorded on the complaint report within EVOTIX and logged in the EMS Environmental Complaints log.
- If a complaint has been received retrospectively, which would result in the site being unable to fully investigate, this will be clearly recorded on the complaint report.

7. ELEVATED NOISE LEVELS

Any elevated levels of noise which have been identified by either the site personnel or the complaints procedure will be mitigated as follows:

- The SHE Team and/or designated responsible person(s) shall carry out a range of checks at the identified source of the elevated levels of noise to ensure that the operation of the plant and/or process is being operated to the correct specification.
- Root cause analysis and rectification carried out to identify issue and prevent

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reoccurrence.

- If identified failing due to plant or equipment failure this will either be isolated if feasible or replacement parts obtained in an agreed timescale.

The SHE Team and/or designated responsible person(s) will ensure a close liaison with the Environment Agency throughout all stages of the process following the receipt of the complaint.

Once the improvements have been identified by the SHE Team and/or designated responsible person(s) have been completed, there will be a further noise monitoring assessment carried out to ensure that the improvements have addressed the source of the elevated levels.

If the elevated levels are still present, then the SHE Team and/or designated responsible person(s) will repeat the request for improvements and subsequent assessments until the limits are met.

8. Reporting Measures

In the event of elevated levels of noise being identified, the event will be reported as an Environmental Incident in EVOTIX and begin an investigation raising any non-conformances.

If the elevated noise level was identified through an external complaint, the SHE Team and/or designated responsible person(s) will make an entry in the Environmental Complaints Log within the EMS.

Once the issue has been resolved, the corrective action(s) taken will be recorded in EVOTIX and the EMS (if applicable) and the issue will be closed out.

9. Review of Noise Control Measures

Noise control measures will be reviewed through monitoring of internal systems, and reporting in the EMS. This will consider effectiveness, relevance and any additional requirements.

With reference to noise, the internal monitoring will include, but will not be limited to the following:

- Inspections of the paper trail of forms and the EMS to ensure that all data is being entered correctly.
- Regular checks to ensure that any issues entered into the EMS / EVOTIX have been resolved correctly.
- Compliance audits carried out by the SHE Team.

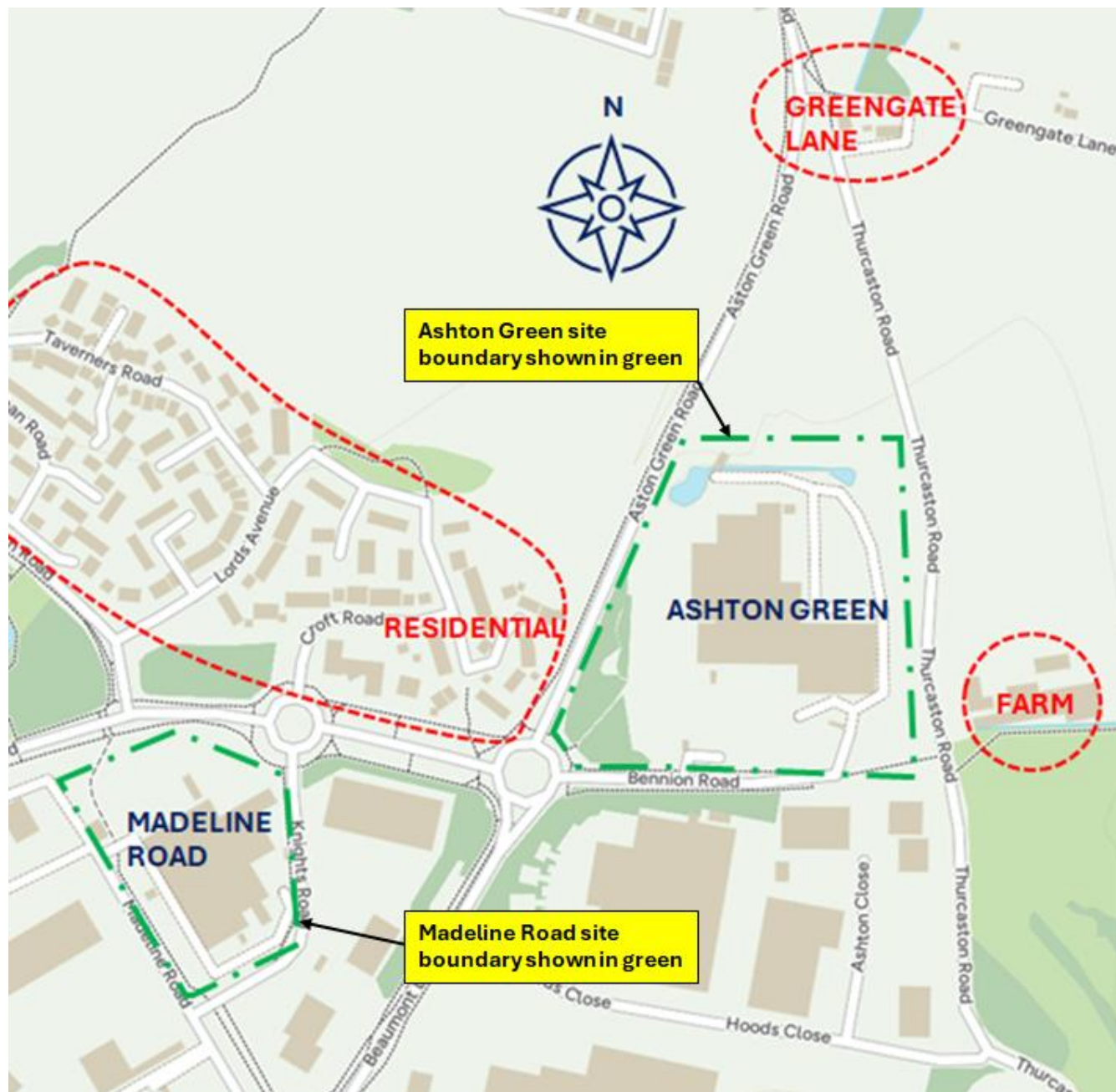
10. Review

This plan will be reviewed on an annual basis to ensure it remains relevant or in the event of a substantial change.

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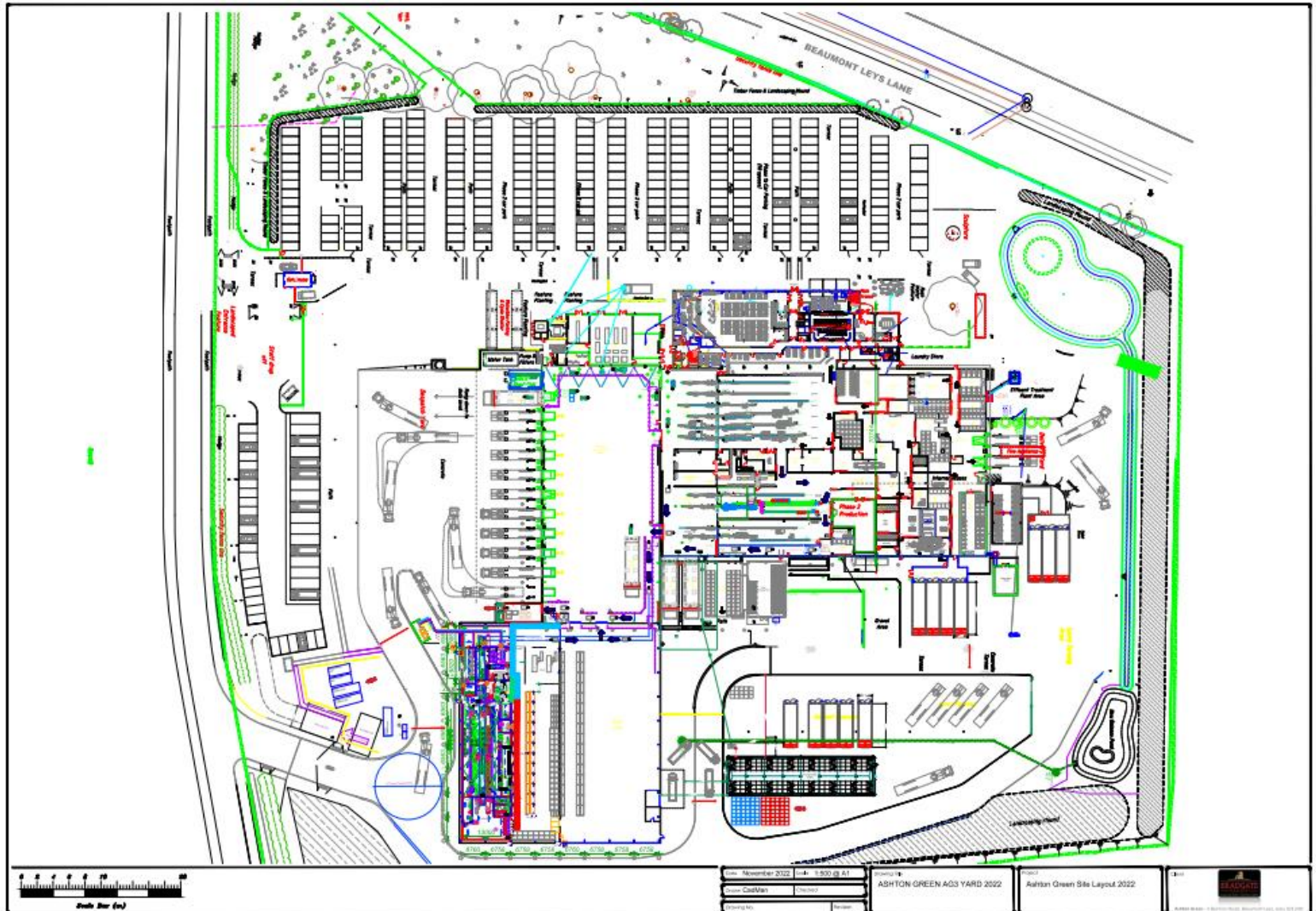
Appendix 1: Site / Boundary Plans

Ashton Green and Madeline Road Site Location Map



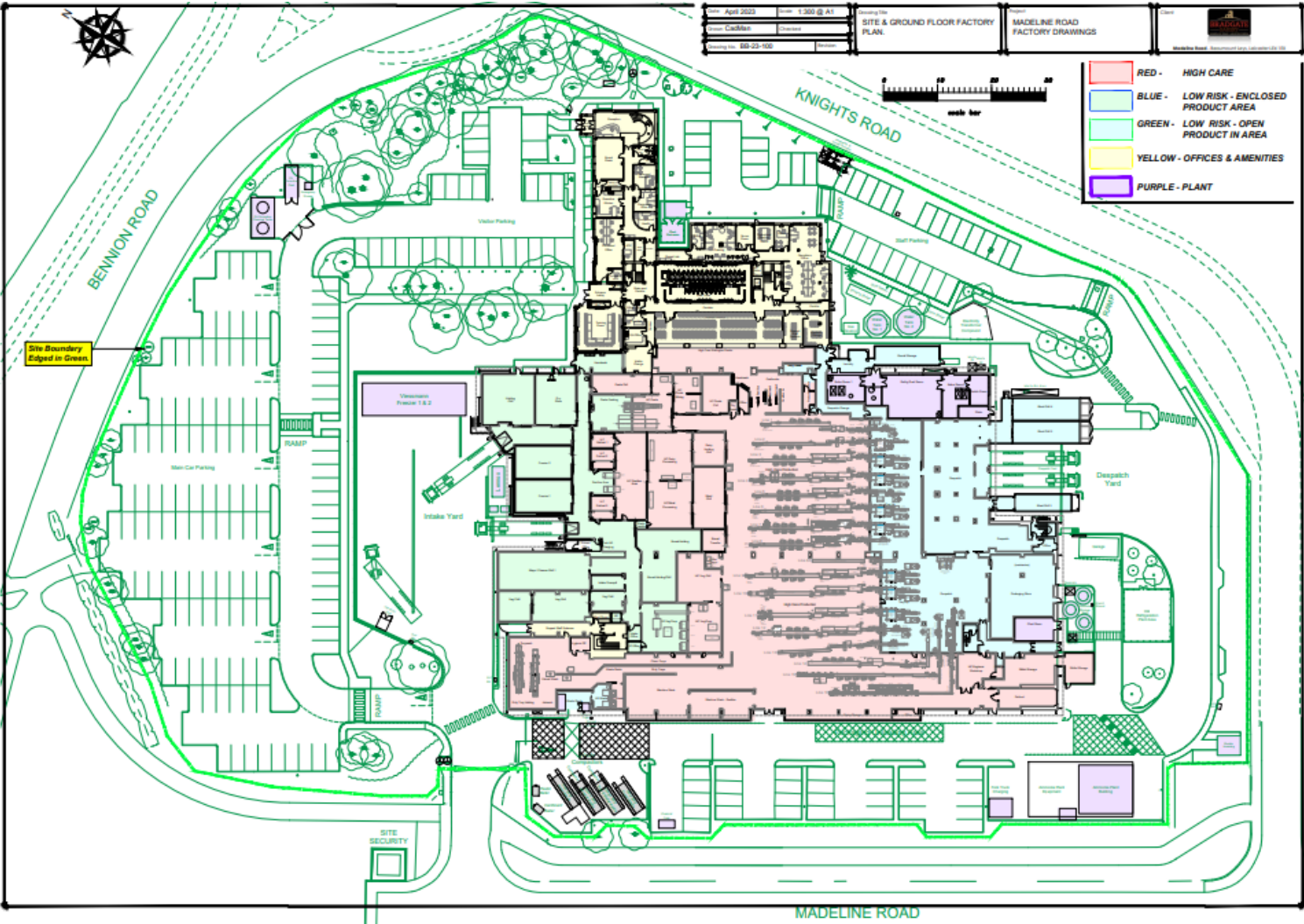
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Ashton Green



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Madeline Road



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Appendix 2: BAT Assessment (Ashton Green)

BAT for the Food & Drink sector is dictated by *“How to comply with your environmental permit: Additional guidance for: The Food and Drink Sector (EPR 6.10).”* This makes limited reference to noise, stating in the introduction: *“Sometimes, particularly difficult issues arise such as problems with odour or noise. You may then need to consult the “horizontal” guidance that gives in depth information on particular topics.”* We have therefore based this assessment on the Environment Agency’s horizontal guidance *“Horizontal Guidance Note IPPC H3 (part 2): Horizontal Guidance for Noise Part 2 – Noise Assessment and Control”*, which is the relevant horizontal guidance for noise. While this guidance sets out generic noise guidance, H3 has been used to assess BAT as there is no specific noise guidance within SGN 6.10. In addition, Improvement Condition 2 in Bradgate Bakery’s environmental permit (EPR/CP3430WV/A001) states that this noise management plan should incorporate information specified in Section 3 of the Environment Agency’s H3 guidance.

In section 3.1, H3 states: *“Noise levels at sensitive receptors can be minimised by:*

- *reduction at source*
- *ensuring adequate distance between the source and receiver*
- *the use of barriers between the source and receiver.”*

The first two points here are largely carried out at the design stage of the facility. Indeed, much of section 3.2.1 of the guidance talks about using natural attenuation by increasing the distance between the source of noise and the relevant sensitive receptor. The guidance then goes on to state that, where it is not possible to reduce noise generation at the source, the next stage of BAT would be to increase attenuation by either enclosing the source or installing a barrier. As the primary source of noise at Bradgate Bakery are the compressors on the plant room, and as this is close to a walkway, it would be impractical to fully enclose the source of the noise. Therefore, we have installed an acoustic barrier close to the source of the noise.

Section 3.2.2.2 of the guidance covers sound attenuation by barriers. This section states that barriers should be continuous and solid. We have therefore installed a barrier that is continuous and solid, and screens sensitive receptors from the source of noise (creating an acoustic shadow). This section also states that the minimum mass of a barrier should be 7 kg/m². The minimum mass of our barrier is 29.3 kg/m², which is therefore substantially greater than the minimum mass of a barrier required to be BAT. As the main noise source from the site is the noise from the compressors in our plant room, the noise is naturally high frequency. In section 3.2.3.1 of H3 it is stated: *“Higher frequencies are absorbed more easily than low frequencies.”* We have therefore chosen a barrier that contains mineral wool at its core to provide absorption as well as creating an acoustic shadow at the relevant receptors.

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