

Appendix 8 - Odour Management Plan

Introduction

This Odour Management Plan has been created to assist in the identification of possible sources of odour and the mitigation techniques to minimise the odour. The Odour Management plan is an important part of the Environmental Management System.

The purpose of this Odour Management Plan is to:

- Establish the likely source of odours arising from the unit;
- Set out procedures at the unit in order to mitigate or minimise the risk of odour;
- Formalise an effective method of dealing with any odour complaints quickly and efficiently.

Potential Odour Sources

The following sources have been identified as potential risk odour sources.

- Compound feed selection
- Feed delivery and storage
- Ventilation fans
- Carcass storage and disposal
- Litter conditions and management
- Drinking systems
- De-stocking
- Cleanout
- Dirty water generation and storage
- Litter/manure
- Dust build up

Pathways and Receptors

The pathway for all of the above potential sources would be via the atmosphere, with the most sensitive receptors being nearby residential dwellings within 400m of the site, and a driving experience company on the runway at Seighford with in 100m. The wind direction will significantly influence how receptors are affected.

Odour Risk Assessment

In accordance with section 3 of the H4 Odour Management guidance an H1 Environmental Risk Assessment has been completed, and the potential contributing low/ medium/ high sources have been identified.

The control of fugitive/ intermittent releases of odour will be addressed in the ongoing site management activities and as part of the Environment Risk Assessment process.

Seighford Poultry Unit – Sensitive Receptor Locator

Grid Reference for the centre of the site: SJ 86993 25366

The following table has been produced to locate all sensitive receptors within 400 metres of the named permitted installation. These receptors are all within the control of the Seighford Estate (applicant). See plan attached.

Receptor ID	Name of Receptor (if known)	Grid Reference of Receptor	Distance from installation - metres
1	Driveme	SJ 86931 25118	5
2	Woodside Cottage	SJ 87344 24995	165
3	Waterfall Cottage	SJ 87426 25235	210
4	Beeches Farmhouse	SJ 87562 25267	350

On Farm Monitoring and Continual Improvement

Any odour complaints received in direct relation to the installation shall be recorded on an odour complaints form. Odour complaints shall be fully investigated and available at future inspections. Complaints received directly from the public will be notified to the Environment Agency. See complaints record form attached.

Investigations shall consider:

- The type of complaint: people, boundary, emissions, odour, noise, compliance.
- The time the issue was first identified, duration of issue, or frequency of reoccurrence.
- The nature of emission release e.g. what did it smell like or sound like.
- The weather condition at the time of reporting the complaint – wind direction, strength, cloud cover.
- The activity being undertaken onsite e.g. egg collection, litter removal, depletion, clean out, normal operation.

Following all investigations into complaints if the issue is caused by an operation at the site a meeting will be arranged with the Environment Agency, in order to discuss practical measures that can be taken to minimise the impact.

Person Responsible

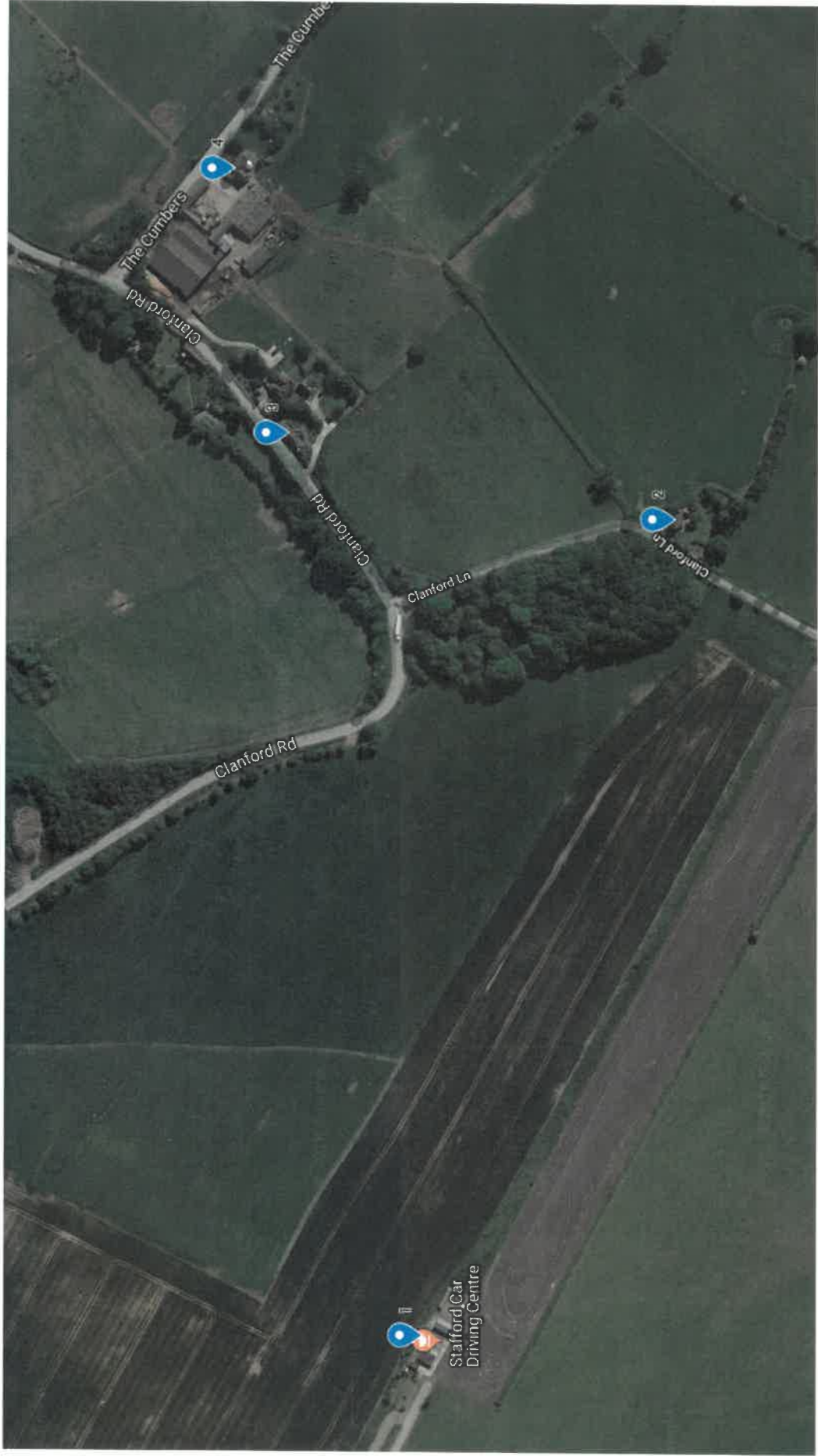
It is the responsibility of the duty manager to ensure that the plan is adhered to and that all odour emissions are monitored. It is the responsibility of the manager to investigate any complaints made, take remedial action and review the plan.

If any abnormally high odours result from the poultry unit it is the duty managers responsibility to follow up on this.

Periodic Review of Odour Management Plan

Whilst the BAT Odour Management Plan is reviewed periodically (at least manually) to assess effectiveness of odour control measures, it will be reviewed more frequently if there are complaints or relevant changes to the operation of the site.

Sensitive Receptor Locator Map



Odour Related Issue	Potential Risk and Problems	Actions taken to prevent and minimise risk	Individual in charge of monitoring	Monitoring of Potential Risk	Completion Date
<p>Manufacture and selection of compound foods</p>	<ul style="list-style-type: none"> Poor quality odorous ingredients. Feeds which are "unbalanced" in nutrients, leading to increased excretion, litter moisture and higher emissions of ammonia and other odorous compounds. 	<ul style="list-style-type: none"> No on-site milling or mixing Feed specifications will be prepared by the feed compounders nutrition specialist. The nutritionist will ensure that protein and phosphorus content is reduced as the rations change throughout the flock cycle. Feed is only to be supplied by a UKASTA accredited feed mill, so that only approved raw materials are utilised in production. A feed sample for every load of feed delivered on site is left and documented for both quality assessment and traceability. Feed delivery systems will be sealed to minimise atmospheric dust. Any spillages will be cleaned up immediately. For major spillages over 500kg the feed mill would be notified, who will send out a vehicle to clear it up. The condition of the feed bins is checked frequently so that any damage or leaks can be identified. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>A sample will be taken of each feed and documented. The birds will be monitored daily.</p>	<p>In place at commencement</p>
<p>Feed delivery and storage</p>	<ul style="list-style-type: none"> Spillages of feed during delivery and storage. Creation of dust during delivery. 	<ul style="list-style-type: none"> Feed delivery systems will be sealed to minimise atmospheric dust. Any spillages will be cleaned up immediately. For major spillages over 500kg the feed mill would be notified, who will send out a vehicle to clear it up. The condition of the feed bins is checked frequently so that any damage or leaks can be identified. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>Each delivery will be monitored by a member of staff to make certain no unnecessary dust is created. Any spillages will be dealt with immediately.</p>	<p>In place at commencement</p>
<p>Ventilation techniques</p>	<ul style="list-style-type: none"> Inadequate air movement in the house, leading to high humidity and wet litter Inadequate system design, causing poor dispersal of odours. 	<ul style="list-style-type: none"> The ventilation system will be regularly adjusted according to age and requirements of the flock. The ventilation system is designed to efficiently remove moisture from the house. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>Ventilation will be monitored on a daily basis, to ensure the system is running in an efficient manner. Any complaints of odour emissions will lead to an intensive check of the ventilation systems.</p>	<p>In place at commencement</p>
<p>Litter management</p>	<ul style="list-style-type: none"> Odours arising from wet litter The use of insufficient or poor-quality litter Spillage of water from drinking systems Disease outbreaks, leading to wet litter 	<ul style="list-style-type: none"> Controls on feed and ventilation (see above) help to maintain litter quality. Use of nipple drinking systems which minimise spillage. Insulated walls and ceilings to prevent condensation. Concrete floors to prevent water ingress Use of a health plan, with specialist veterinary input used as necessary. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>Litter will be monitored daily when staff carry out their daily checks.</p>	<p>In place at commencement</p>

<p>Carcass disposal</p>	<ul style="list-style-type: none"> Inadequate storage of carcasses on site 	<ul style="list-style-type: none"> Carcasses are placed in sealed freezers immediately after they are removed from the house. Use of a purpose-designed sealed container for collection or carcasses by Fallen Stock Scheme contractor. (http://www.nfsc.co.uk/pdf_files/ANNEXA-Biosecurity(2015)27032015120923.pdf) 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>This risk will be monitored daily, when daily checks are made any carcasses will be removed from the house and stored appropriately until collected under the Fallen Stock Scheme.</p>	<p>In place at commencement</p>
<p>House clean out</p>	<ul style="list-style-type: none"> Creation of dust associated with litter removal from houses Use of odorous products to clean houses 	<ul style="list-style-type: none"> Litter will be carefully placed into trailers positioned at the entrance to each house. When full, the trailer will be covered. Only approved and suitable products will be used. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>This will be monitored at the time of clean out. Any complaints received involving odour at the time of clean out will be dealt with and action will be taken to ensure no further complaints occur.</p>	<p>In place at commencement</p>
<p>Used litter</p>	<ul style="list-style-type: none"> Storage of used litter on site Transport of litter and applications to land 	<ul style="list-style-type: none"> There will be no storage of used litter outside the houses at any time. The tipping height to the trailer is minimised Litter will be transported in covered trailers Any litter which land is spread elsewhere is under the control of a separate farming business. A written agreement will be in place. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>No used litter will be stored on site. This risk will be monitored periodically, if any complaints are made the risk will be reassessed.</p>	<p>In place at commencement</p>
<p>Dirty water management</p>	<ul style="list-style-type: none"> Standing dirty water during the production cycle or at clean out Applications of dirty water to land 	<ul style="list-style-type: none"> Areas at the rear gable end of the houses are concreted and remain clean during the production cycle. At clean-out, dirty water will be directed to the underground tank for storage. It will then be spread onto land, under the control of a separate farming business. A written agreement is in place. 	<p>The duty manager is in charge of periodic monitoring of the site and dealing with complaints. However daily monitoring is to be undertaken by all staff. If any ordinary odour emissions are detected, they will be investigated and dealt with in a timely manner.</p>	<p>This will be monitored when daily checks are carried out.</p>	<p>In place at commencement</p>

Complaints Record Form

Installation: Seighford Poultry Unit

Date received:

Date responded:

Complainant - Name	
Complainant contact details: Address:	
Telephone number:	
Time and date of Incident:	
Nature of complaint – emissions, odour, noise, dust	
Description of complaint:	
Weather conditions – Wind strength, wind direction, cloud, rain, fog, snow, temperature	
Operating activity at the time of complaint – normal, litter removal, cleanout, egg collection, feed delivery	
Investigation	
Any previous complaints linked to same exposure or other relevant information?	
Potential sources of complaint	
Remedial action taken	
Date & time remedial action completed	
Response	
Date and time complainant contacted – phone/ letter	
Response from complainant to action taken	
Any follow-on action needed?	
Detail amendments required to site control management processes?	

Form Completed by: _____

Sign & Date: _____