

## Odour Management Plan for Beech Farm

The nature of livestock farming means that preventing odour generation at source is rarely possible as animals are inherently odorous. However, there are many things that can be done, often at low cost, to minimise odour or to prevent it reaching neighbours.

The H1 environmental risk assessment submitted with Application Variation V003 to increase the installation boundary to enclose more land for 3no. additional houses (total 10no. poultry houses) and places for rearing broiler chickens identified sources of odour with moderate potential to cause annoyance. Created and updated this odour management plan (OMP) to support the overall environmental management system in place. The overriding principle is to ensure day-to-day activities are conducted in accordance with the OMP so there is no reasonable cause for annoyance to people outside the installation boundary. No cause for annoyance is expected; the operator has no record or recollections of any odour concerns or complaints and will continue to foster good relations with neighbours.

Actions and contingency actions in this OMP are best available techniques (BAT) in accordance with Best Available Techniques (BAT) Reference Document 2017, Environment Agency (2010) EPR 6.09 Sector Guidance Note; How to comply – Intensive Farming v2; Appendix 4 Odour management at intensive livestock installations, Environment Agency (2011) Additional guidance for H4 Odour Management: How to comply with your environmental permit (especially for monitoring and responding to complaints), and Environment Agency (2013) Poultry Industry Good Practice Checklist and DEFRA (2005) Heat Stress in Poultry, Solving the Problem.

Identified sensitive receptors within 400m of the installation boundary (excluding a dwelling for a person in control of the installation) from a desk top study shown in Table 1 and Figure 1: -

Identified sensitive receptors within 400m of the installation boundary (excluding an offsite dwelling adjacent to the boundary for a farmworker in control of the installation) from a desk top study shown in Table 1 and Figure 1: -

*Table 1. Beech Farm sensitive receptors within 400m*

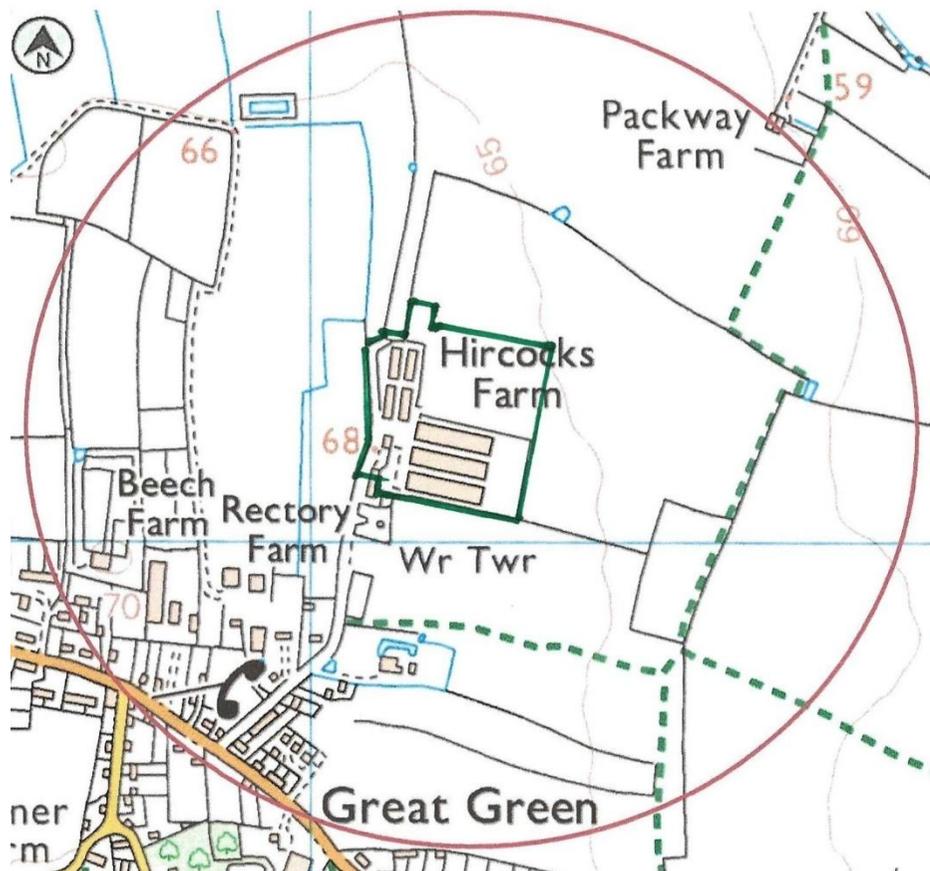
Nº	Receptor	Address	NGR	Direction	Distance from boundary metres
1	Dwelling	Packway Farm Barn, Bunwell, Norwich, NR16 1BF	TM 1257 9480	NE	390
2	PROW	PROW – Footpath, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1250 9363	E	255
3	PROW	PROW – Footpath, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1222 9388	S	145
4	Dwelling	Old Reading Room, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1204 9390	S	165
5	Dwelling	Bunwell Manor, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1209 9386	S	205

6	Dwelling	The Cottage, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1203 9382	S	245
7	Dwelling	Cawsand, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1197 9381	S	275
8	Dwelling	Lavender Cottage, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1195 9379	S	300
9	Dwelling	Star Cottage, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1194 9378	S	310
10	Dwelling	Redbrook, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1193 9377	S	325
11	Dwelling	Old Rectory Farm, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1200 9389	S	190
12	Dwelling	Robertsholme, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1199 9388	S	200
13	Dwelling	Finmere, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1198 9386	S	230
14	Dwelling	Great Green Farm Bungalow, Rectory Lane, Bunwell, NR16 1QU	TM 1195 9384	S	255
15	Dwelling	Great Green Farm Bungalow, Rectory Lane, Bunwell, NR16 1QU	TM 1197 9389	S	205
16	Agricultural	Rectory Farm, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1194 9395	S	175
17	Dwelling	Rectory Farm, Rectory Lane, Bunwell, Norwich, NR16 1QU	TM 1191 9390	S	230
18	Dwelling	1 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1199 9374	S	335
19	Dwelling	2 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1199 9374	S	335
20	Dwelling	3 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1198 9375	S	330
21	Dwelling	4 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1198 9375	S	330
22	Dwelling	5 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1197 9376	S	325
23	Dwelling	6 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1196 9376	S	320
24	Dwelling	7 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1195 9375	S	340
25	Dwelling	8 Smockmill Close, Bunwell, Norwich, NR16 1FL	TM 1195 9374	S	345
26	Dwelling	111 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1197 9371	S	370
27	Dwelling	109 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1197 4371	S	370
28	Dwelling	107 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1195 9372	S	365
26	Dwelling	105 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1194 9372	S	365
30	Dwelling	101 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1193 9373	S	360
31	Dwelling	103 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1193 9373	S	360
32	Dwelling	114 The Laurels, Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1192 9370	S	395
33	Dwelling	99 Badgers Rest, Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1192 3774	S	355
34	Dwelling	97 Bunwell Street, Bunwell, Norwich, NR16 1QT	TM 1191 9375	S	355
35	Dwelling	106 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1186 9373	S	395
36	Dwelling	104 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1184 9375	S	395
37	Dwelling	95 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1188 9377	SW	350

38	Dwelling	93 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1187 9378	SW	355
39	Dwelling	91 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1187 9383	SW	310
40	Dwelling	89 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1186 9381	SW	335
41	Dwelling	102 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1182 9376	SW	400
42	Dwelling	100 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1180 9379	SW	390
43	Industrial	83-87 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1185 9391	SW	280
44	Dwelling	79 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1182 9386	SW	325
45	Dwelling	77 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1180 9383	SW	365
46	Dwelling	75 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1179 9383	SW	365
47	Dwelling	73 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1178 9386	SW	360
48	Dwelling	71 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1176 9386	SW	375
49	Dwelling	1 The Cottages, North Road, Bunwell, Norwich, NR16 1RB	TM 1178 9380	SW	395
50	Dwelling	2 The Cottages, North Road, Bunwell, Norwich, NR16 1RB	TM 1178 9379	SW	400
51	Dwelling	69 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1175 9388	SW	380
52	Dwelling	67 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1174 9388	SW	385
53	Dwelling	The Old Orchard, The Barns, Bunwell Street, Bunwell, NR16 1LZ	TM 1173 9391	SW	385
54	Dwelling	Primrose Corner, The Barns, Bunwell Street, Bunwell, NR16 1LZ	TM 1171 9392	SW	400
55	Dwelling	61 Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1172 9593	SW	380
56	Dwelling	The Barns, Bunwell Street, Bunwell, NR16 1LZ	TM 1169 9399	SW	400
57	Agricultural	Bunwell Street, Bunwell, Norwich, NR16 1AB	TM 1175 9398	SW	340

*Distances measured on government website at [magic.defra.gov.uk](http://magic.defra.gov.uk)*

Fig 1. Beech Farm locations of sensitive receptors within 400m



Wind direction is defined as the direction from which the wind is blowing. According to the Met Office Eastern England climate report - as Atlantic depressions pass by the UK the wind typically starts to blow from the south or south-west but later comes from the west or north-west as the depression moves away. Directions between south and north-west account for the majority of occasions and the strongest winds nearly always blow from this range. Averaged across the year the prevailing wind direction is from the southwest.

Residential dwellings have high sensitivity and reasonably expect enjoyment of a high level of amenity, and where people would reasonably be expected to be present continuously, or at least regularly for extended periods. Industrial and agricultural premises and public rights of way (footpaths) likely to have low sensitivity – where the enjoyment of amenity would not reasonably be expected, or there is transient exposure, where people would reasonably be expected to be present only for limited periods of time as part of the normal pattern of use. Most sensitive receptors most likely to be exposed to odour when the wind blows from the northwest. The following table sets out: -

- Likely sources of odour from a typical intensive poultry unit
- Actions taken at Beech Farm to prevent or minimise odour levels.
- Contingency actions to limit exposure to elevated odour emissions beyond the installation boundary.

Table 2. Routine actions and contingency actions to minimise odour and odour risks at Beech Farm

Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
Effect of diet	<ul style="list-style-type: none"> <li>• High protein diet increases nitrogen and sulphur content of the litter.</li> <li>• Feeds which are unbalanced in nutrients leading to increased excretion, bedding moisture and higher odour and ammonia emissions to air</li> <li>• Poor quality &amp; odorous ingredients.</li> </ul>	<ul style="list-style-type: none"> <li>• The feed compounders nutrition specialist prepares feed specifications.</li> <li>• Reduce the percentage crude protein content using a nitrogen balanced diet based on the energy needs and digestible amino acids.</li> <li>• Multiphase feeding with a diet formulation adapted to the specific requirements of the production period. Provide chickens a minimum of three separate diets which contain increasingly lower percentage crude protein to meet their dietary needs as they grow.</li> <li>• Addition of controlled amounts of essential amino acids. Highly digestible amino acid analogues lysine, methionine, threonine, and valine are added to all the feeds during milling to supplement otherwise low naturally occurring levels in wheat grains.</li> <li>• Feeds supplied from mills in certification schemes and only use approved ingredients.</li> <li>• No feed manufacturing, milling, or mixing on site.</li> </ul>	
Odour from feed delivery and storage	<ul style="list-style-type: none"> <li>• Creation of dust and odour during feed delivery</li> <li>• Spillage of feed during delivery, storage, and spoilage.</li> </ul>	<ul style="list-style-type: none"> <li>• Package silos and feeding equipment contain dust and odour and prevents feed from getting wet.</li> <li>• Cyclone dust separators capture dust during delivery and routinely checked and emptied by farm workers.</li> <li>• Silos and feeding equipment protected from collision damage from reversing vehicles by careful siting relative to traffic flows, in between the buildings, with kerbs or barriers as required.</li> <li>• Feed delivery vehicles always covered.</li> <li>• Deliveries monitored by drivers or farmworkers, and any spillage will be cleared up immediately.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>• Feed spillage outside.</li> <li>• Fault with the feeding equipment spillages inside.</li> </ul> <p><u>Timeframe for implementation</u></p> <ul style="list-style-type: none"> <li>• Immediate/same day</li> </ul> <p><u>Contingency action</u></p> <ul style="list-style-type: none"> <li>• Spillage will be cleared up immediately into bags by drivers or farmworkers and stored in a secure place.</li> <li>• Uncontaminated feed will be used but feed which is contaminated is waste - for disposal in trade waste bin</li> </ul>

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Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
		<ul style="list-style-type: none"> <li>Automated or mechanical equipment essential for the health and well-being of the birds must be inspected by farm workers at least once per day to check there is no defect.</li> <li>Planned preventive maintenance by operator's engineers or professional contractors in accordance with manufacturer's instructions and keeping records of work.</li> </ul>	<ul style="list-style-type: none"> <li>or skip to be removed on the next scheduled emptying or changeover.</li> <li>If there isn't a large enough bin or skip onsite, farmworkers will need to contact the contractor for emptying or changeover sooner.</li> <li>Equipment defects must be rectified immediately, same day by farmworkers, operators' engineers, or professional contractors.</li> <li><u>Duration of action</u></li> <li>Achievable same day, bins or skips to be emptied.</li> <li><u>Cessation of action</u></li> <li>Spillage cleared up for use or secured for disposal.</li> <li>Farmworkers inspect the contingency actions have been successful and any contaminated feedstuffs have been secured for offsite for disposal.</li> </ul>
Odour from problems with housing ventilation system	<ul style="list-style-type: none"> <li>Inadequate design causing poor dispersal of odour</li> <li>Extraction fans located close to sensitive receptors.</li> <li>Inadequate air movement in the house, leading to high humidity and higher litter moisture content</li> </ul>	<ul style="list-style-type: none"> <li>Forced ventilation system designed &amp; installed by professional contractor.</li> <li>Ventilation is automatic, computer controlled to provide sufficient fresh air for the age of the birds, without draughts, and remove excess moisture to keep litter and droppings dry and friable under all weather &amp; seasonal conditions.</li> <li>Optimised discharge conditions of exhaust air from houses using a combination of techniques to disperse ammonia, odour, dust and bioaerosols quickly - maximised outlet heights, exhaust air above roof level through the ridge, maximised vertical outlet velocity, and uncapped outlet cones.</li> </ul>	<ul style="list-style-type: none"> <li><u>Trigger</u></li> <li>High/low temperature alarm.</li> <li>Electricity outage.</li> <li><u>Timeframe for implementation</u></li> <li>Immediate, same day, automatic.</li> <li><u>Contingency action</u></li> <li>Investigate cause of high/low alarm and rectify.</li> <li>Check heating &amp; ventilation systems are working correctly to provide sufficient air changes and temperature to meet chickens' welfare needs and to keep the litter dry to minimise odour.</li> <li>Emergency back-up generator starts automatically.</li> <li>Regularly check generators and fuel level during use.</li> </ul>

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Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
	<ul style="list-style-type: none"> <li>• According to BREF odour from broiler housing increase in offensiveness with moisture content of the litter.</li> <li>• Electricity outage.</li> </ul>	<ul style="list-style-type: none"> <li>• Automated or mechanical equipment essential for the health and well-being of the birds must be inspected by farm workers at least once per day to check there is no defect.</li> <li>• Planned preventive maintenance by operator's engineers or professional contractors in accordance with manufacturer's instructions and keeping records of work.</li> </ul>	<ul style="list-style-type: none"> <li>• Defects must be rectified by farmworkers, operator's engineers, or professional contractors.</li> <li>• <u>Duration of action</u></li> <li>• Achievable immediately, same day.</li> <li>• <u>Cessation of action</u></li> <li>• Grid electricity restored.</li> <li>• Check generator switched off and fuel level.</li> <li>• Farmworkers check heating &amp; ventilation systems are working correctly.</li> </ul>
Odour from gable end fans	<ul style="list-style-type: none"> <li>• Odour released outside close to ground level.</li> <li>• Exposure at the sensitive receptor will potentially be increased.</li> <li>• Running fans continually day &amp; night</li> <li>• Expect frequency &amp; duration of use in the future will increase owing to climate change.</li> </ul>	<ul style="list-style-type: none"> <li>• Switch on fans infrequently. When chickens are nearly fully feathered &amp; start exhibiting uncomfortable feeling hot behaviours e.g. lifting their wings and exposing more of their bodies to get rid of excess heat, and panting. Never used for brooding chicks or young birds, which would be chill stressed.</li> <li>• Switch on fans in warmer weather, most likely in June, July &amp; August or in a heat wave (Met Office definition for a UK heat wave is an extended period of hot weather for three consecutive days with daily maximum temperatures meeting or exceeding the heat wave temperature threshold of 27°C for Norfolk).</li> <li>• Fans could be in use for approx. seven days near the end of a rearing period. Based on production cycles of nearly seven weeks, fans might be switched on near the end of two rearing periods so up to fourteen days or more per year.</li> <li>• Switch off fans immediately as soon as they are not needed. When daytime outside temperature goes</li> </ul>	

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Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
		<p>down and chickens stop exhibiting uncomfortable feeling hot behaviours or have been depopulated.</p> <ul style="list-style-type: none"> <li>• Never used when removing litter or washing out.</li> <li>• Daily inspection, removing build-up of settled dust and planned preventive maintenance same as for the ridge fans in odour from problems with housing ventilation (see above).</li> </ul>	
Odour from wet litter	<ul style="list-style-type: none"> <li>• Design</li> <li>• Insufficient litter</li> <li>• Poor quality litter</li> <li>• Drinking system</li> <li>• According to How to comply, the level of odorant emissions decreases as the quantity of litter per livestock unit is increased - binding nitrogen to reduce odour and ammonia</li> <li>• According to the BREF odour from poultry housing increases in offensiveness with moisture</li> </ul>	<ul style="list-style-type: none"> <li>• Concrete floors poured over continuous damp-proof membrane, prevents moisture being drawn up from the ground and insulated walls and ceilings prevent condensation of moisture in the air.</li> <li>• Use new litter every time, never reuse litter.</li> <li>• Use a proprietary blend of dust extracted chopped straw/wood shavings or chopped straw to provide absorbent bedding. Dust extracted straw/wood shavings are commercially available, cost effective and readily disposed of end of each production cycle.</li> <li>• Package non-leaking nipple drinkers with drip cups installed to minimise spillage and keep litter dry.</li> <li>• Daily checks on drinker lines, adjusting drinking lines to optimum bird's eye level to minimise spillages and keep litter dry.</li> <li>• Check for wet, capped litter, elevated odour during the systematic bird inspections at least twice per day. Three times per day for young birds.</li> <li>• Automated or mechanical equipment essential for the health and well-being of the birds must be inspected by farmworkers at least once per day to check there is no defect in it.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>• Wet, capped litter, elevated odour.</li> <li>• Leaking drinking system.</li> <li>• High water usage.</li> </ul> <p><u>Timeframe for implementation</u></p> <ul style="list-style-type: none"> <li>• Immediate, same day.</li> </ul> <p><u>Contingency action</u></p> <ul style="list-style-type: none"> <li>• Defects must be rectified by farmworkers, operator's engineers, or professional contractors.</li> <li>• If litter it isn't drying or starts capping and add extra litter to prevent it spreading.</li> <li>• Replenish litter on any damp areas before destocking.</li> </ul> <p><u>Duration of action</u></p> <ul style="list-style-type: none"> <li>• Measures and repairs achievable same day.</li> <li>• Monitoring litter every day,</li> </ul> <p><u>Cessation of action</u></p> <ul style="list-style-type: none"> <li>• Farmworkers checking contingency actions, satisfied wet litter has successfully dried and odour levels inside house returned to normal levels.</li> <li>• House destocked.</li> </ul>

*Table 2. Routine actions and contingency actions to minimise odour and odour risks at Beech Farm*

Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
	<p>content of the litter.</p>	<ul style="list-style-type: none"> <li>• Monitor water usage daily, meter in every house.</li> <li>• Planned preventive maintenance by operator's engineers or professional contractors in accordance with manufacturer's instructions and keeping records of work.</li> </ul>	
<p>Odour issues in destocking</p>	<ul style="list-style-type: none"> <li>• Ventilation fans</li> <li>• Open doors</li> <li>• Wet litter</li> </ul>	<ul style="list-style-type: none"> <li>• Expect to be destocking houses not less than 14 days every year. Abattoir can take the smaller and larger birds in as little as a single day.</li> <li>• Ventilation is automatic, computer controlled to provide sufficient fresh air for the age of the birds, without draughts, and remove excess moisture to keep the litter and droppings dry and friable under all weather &amp; seasonal conditions including during destocking.</li> <li>• Switch on more fans to create the required airflow.</li> <li>• Replenish litter on any damp area before destocking.</li> <li>• Catch birds with care and lift directly into transport modules inside houses, modules covered to protect chickens from weather conditions during transport, also contains dust and odour but expect them to be uncovered in warmer weather.</li> <li>• Loaded trailers promptly moved offsite.</li> <li>• HGVs pass-by receptors but takes only seconds.</li> <li>• Switch off ventilation after destocking and keep houses closed and locked.</li> </ul>	

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Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
<p>Odour issues removing litter</p>	<ul style="list-style-type: none"> <li>• Releasing more dust and odour result of increased ventilation via extraction fans and doors open to take litter out</li> <li>• Loading into trailers</li> <li>• Windy</li> <li>• According to How to comply – odorous compounds absorbed onto dust particles and particles themselves decompose releasing volatile compounds</li> <li>• Generally considered to be dustiest and most odorous activity on the farm.</li> </ul>	<ul style="list-style-type: none"> <li>• Must remove litter after destocking.</li> <li>• Use new litter every time, never reuse litter.</li> <li>• Expect to be removing litter not less than seven times every year and from all the houses in less than a day.</li> <li>• Professional contractors remove litter as soon as possible, normally within a day of destocking, not more than 3 days, e.g., destocking on Friday and remove litter on Monday.</li> <li>• Remove litter in normal daytime 07.00-23.00hrs in working week (Monday to Friday and Saturday morning but exclusive of public &amp; bank holidays), in accordance with How to comply.</li> <li>• Use ventilation to maximum effect to reduce workers exposure during litter removal. Use combination of opening or closing doors, opening vents for natural air dilution, and switching on fans to create required airflow in accordance with HSE guidance.</li> <li>• Remove build-up of settled dust from fans, ceiling and feeding equipment, etc with compressed air before washout, and helps reduce the quantity of dirty water.</li> <li>• Use front end or skid-steer loader to push bulk of litter into a large heap the length of house to avoid double handling and minimise time loading into trailers.</li> <li>• Doors open on to waiting trailers parked outside as close as possible.</li> <li>• Trailers kept covered all times except during loading.</li> <li>• Export litter offsite for power generation or land-spreading. Latter will be under control of a separate farming business &amp; with a written agreement in place.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>• Removing litter delayed.</li> </ul> <p><u>Timeframe for implementation</u></p> <ul style="list-style-type: none"> <li>• Immediate, same day.</li> </ul> <p><u>Contingency action</u></p> <ul style="list-style-type: none"> <li>• Keep poultry houses closed &amp; fans switched off.</li> </ul> <p><u>Duration of action</u></p> <ul style="list-style-type: none"> <li>• For as long as required, until removing litter started.</li> </ul> <p><u>Cessation of action</u></p> <ul style="list-style-type: none"> <li>• Contractor arrives to remove litter.</li> </ul>

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Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
		<ul style="list-style-type: none"> <li>Switch off ventilation when work finished and keep houses closed and locked.</li> <li>No used litter will be stored onsite.</li> </ul>	
Odour issues with washout	<ul style="list-style-type: none"> <li>Ventilation fans</li> <li>Open doors</li> <li>Dirty water</li> <li>Odorous products</li> </ul>	<ul style="list-style-type: none"> <li>Expect to washout not less than seven times every year and from all the houses in approx. three days.</li> <li>Professional contractors will washout houses as soon as possible, normally within a day of destocking, not more than 3 days, e.g., destocking on Friday and washout on Monday.</li> <li>Washout in normal daytime 07.00-23.00hrs in working week (Monday to Friday and Saturday morning but exclusive of public &amp; bank holidays), in accordance with How to comply.</li> <li>Foot dips emptied into dirty water storage tanks.</li> <li>Below ground dirty water storage tank with capacity for all the dirty water from all the houses</li> <li>Keep roadways, concrete apron, dirty water grates and drains clear of litter, etc to avoid backing-up, pooling, or over spilling into surface water drains or on unmade land.</li> <li>Dirty water drains flushed through after washout to prevent stagnation.</li> <li>Use Defra approved disinfectants, slightly odorous.</li> <li>Use ventilation system to dry houses then switch off.</li> <li>Keep houses closed and locked and after washout.</li> </ul>	<ul style="list-style-type: none"> <li><u>Trigger</u></li> <li>Washout delayed.</li> <li><u>Timeframe for implementation</u></li> <li>Immediate, same day.</li> <li><u>Contingency action</u></li> <li>Keep poultry house closed &amp; fans switched off after removing litter to minimise odour release.</li> <li><u>Duration of action</u></li> <li>For as long as required, until washout started.</li> <li><u>Cessation of action</u></li> <li>Professional contractor arrives to washout.</li> </ul>

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Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
Odour issues with dirty water	<ul style="list-style-type: none"> <li>• Standing dirty water</li> </ul>	<ul style="list-style-type: none"> <li>• Expect to empty tanks seven times every year.</li> <li>• Professional contractors empty as quickly as possible after washout to prevent anaerobic conditions developing in settled sludge, and ready for next time.</li> <li>• Empty in normal daytime 07.00-23.00hrs in working week (Monday to Friday and Saturday morning but exclusive of public &amp; bank holidays), in accordance with How to comply.</li> <li>• Dirty water exported offsite for land spreading under control of a separate farming business, a written agreement will be in place.</li> </ul>	
Macerator	<ul style="list-style-type: none"> <li>• Not considered to be an odorous activity.</li> </ul>	<ul style="list-style-type: none"> <li>• Package mobile macerator, pressure washer, and equipment enclosed in a trailer and farmworkers arrive same day the dead-in-shell and non-viable eggs will be collected up after the hatching.</li> <li>• Operation limited to normal daytime 07.00-23.00hrs in working week (Monday to Friday and Saturday morning but exclusive of public &amp; bank holidays), in accordance with How to comply. Outside these times only in event of extraordinary circumstances - delays, breakdowns, availability, etc.</li> <li>• Macerator is fast, in use for only a few minutes in each hour after collections from inside houses.</li> <li>• Likely to be in use less than an hour at Beech Farm then washed down and disinfected and moved on to next farm same day or return to the hatchery.</li> </ul>	

Table 2. Routine actions and contingency actions to minimise odour and odour risks at Beech Farm

Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
Carcass disposal	<ul style="list-style-type: none"> <li>Inadequate storage</li> </ul>	<ul style="list-style-type: none"> <li>Carcases removed from houses daily.</li> <li>Stored in secure, non-leaking containers.</li> <li>Store macerated eggs, and dirty water from cleaning and disinfecting the macerator in the secure, non-leaking containers.</li> <li>Dirty water from cleaning and disinfecting macerator must never be allowed to enter into the dirty water storage tank for spreading on land.</li> <li>Checking containers and storage area daily.</li> <li>Planned, frequent collections by an approved transporter under the National Fallen Stock Scheme.</li> <li>Weekly collections considered adequate, but frequency can be increased anytime.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>Higher mortality result of warmer weather or disease</li> <li>Collection delayed.</li> </ul> <p><u>Timeframe for implementation</u></p> <ul style="list-style-type: none"> <li>Immediate, same day.</li> </ul> <p><u>Contingency action</u></p> <ul style="list-style-type: none"> <li>Contact transporter for more frequent collection, start same day, next day.</li> </ul> <p><u>Duration of action</u></p> <ul style="list-style-type: none"> <li>Achievable same day, next day.</li> <li>More frequent collections for as long as required.</li> </ul> <p><u>Cessation of action</u></p> <ul style="list-style-type: none"> <li>Checking containers have been emptied and there are empty containers available.</li> <li>Odour level is normal.</li> </ul>
Biosecurity	<ul style="list-style-type: none"> <li>Disease but significant disease outbreaks in commercial poultry flocks are rare</li> <li>Increase droppings, higher moisture content in litter and odour</li> </ul>	<ul style="list-style-type: none"> <li>Health planning with professional veterinary input.</li> <li>Staff are well managed, supervised and appropriately trained and qualified, including holiday cover, part-time, and temporary staff.</li> <li>Systematic inspection of all the chickens every day.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>Wet litter, elevated odour.</li> <li>Increase in morbidity or mortality.</li> </ul> <p><u>Timeframe for implementation</u></p> <ul style="list-style-type: none"> <li>Immediate, same day.</li> </ul> <p><u>Contingency action</u></p> <ul style="list-style-type: none"> <li>Investigate symptoms.</li> <li>Obtain veterinary assistance if required.</li> </ul> <p><u>Duration of action</u></p> <ul style="list-style-type: none"> <li>Monitoring, treatment and with veterinary assistance for as long as required.</li> </ul> <p><u>Cessation of action</u></p> <ul style="list-style-type: none"> <li>Litter quality improved, odour reduced inside house.</li> <li>Morbidity and mortality return to normal levels.</li> </ul>

Table 2. Routine actions and contingency actions to minimise odour and odour risks at Beech Farm

Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
Waste	<ul style="list-style-type: none"> <li>• Sweepings</li> <li>• Inadequate storage</li> </ul>	<ul style="list-style-type: none"> <li>• Store in secure, non-leaking containers.</li> <li>• Scheduled collections by a registered waste carrier.</li> <li>• Frequency of collection can be increased anytime.</li> </ul>	
Monitoring	<ul style="list-style-type: none"> <li>• Monitoring odour levels daily at source can help identify any increase in level with time so remedial action can be taken.</li> <li>• Sensitivity likely to increase in warm weather when people want to enjoy the amenity of their gardens and have windows open.</li> </ul>	<ul style="list-style-type: none"> <li>• Farm Manager responsible for site tour every day including perimeter check for any abnormal elevated odour level, especially any with the potential to cause annoyance at sensitive receptors.</li> <li>• Anyone accustomed to odour result of exposure may not be able to detect or judge intensity of odour offsite. Anyone with a cold, sinusitis, or a sore throat will underestimate the odour. Strong food or drinks, including coffee to be avoided for at least half an hour before sniff testing and avoid strongly scented toiletries and deodorisers in vehicles, etc.</li> <li>• Anyone who has not recently been working on the farm might be more helpful.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>• Elevated odour level or offensive odour.</li> </ul> <p><u>Timeframe for implementation</u></p> <ul style="list-style-type: none"> <li>• Immediate, same day.</li> </ul> <p><u>Contingency action</u></p> <ul style="list-style-type: none"> <li>• Check routine and contingency actions to minimise odour are being adhered to.</li> <li>• Inform people at receptor locations and anyone else likely to be seriously affected, what has been done or still needs to be done to reduce dust levels and duration with timescales.</li> <li>• Continue periodically sniff-testing at perimeter, until odour reduced back to normal level.</li> <li>• Weather stations are inexpensive, easy to install and use for 24/7 monitoring and investigating complaints.</li> </ul> <p><u>Duration of action</u></p> <ul style="list-style-type: none"> <li>• Normally achievable same day, next day.</li> </ul> <p><u>Cessation of action</u></p> <ul style="list-style-type: none"> <li>• Odour reduced to normal levels.</li> <li>• Record events and actions in the farm diary.</li> </ul>
Complaint	<ul style="list-style-type: none"> <li>• Slow response</li> <li>• Elevated level of annoyance.</li> </ul>	<ul style="list-style-type: none"> <li>• Farm Manager will be responsible for investigating any complaint.</li> </ul>	<p><u>Trigger</u></p> <ul style="list-style-type: none"> <li>• Complaint reported by the public, the Environment Agency or local authority.</li> </ul>

Table 2. Routine actions and contingency actions to minimise odour and odour risks at Beech Farm

Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
			<ul style="list-style-type: none"> <li>• Complaint reported on Saturday or Sunday by email from the Agency or local authority, not considered likely from anywhere else. <u>Timeframe for implementation</u></li> <li>• Immediate, as soon as possible on opening email. <u>Contingency action</u></li> <li>• Investigate if alleged odour can be substantiated. Even if no longer apparent investigation must still be conducted and recorded same day. Use the odour compliant report and establish: -             <ul style="list-style-type: none"> <li>• Time event occurred, duration, description of odour.</li> <li>• Activities taking place onsite at time of complaint.</li> <li>• Any odorous activities taking place offsite in vicinity.</li> <li>• Check actions, contingency actions being adhered to and any change to standard operating procedure.</li> <li>• Record details of investigation and action taken on the odour complaint report.</li> <li>• A copy must be sent to the Agricultural Manager, Environment Manager immediately</li> <li>• Must be retained onsite and available for future reference, or inspection with the Agency. <u>Duration of action</u></li> <li>• Investigation achievable same day, next day. <u>Cessation of action</u></li> </ul> </li> <li>• Notify complainant and anyone else likely to be seriously affected, and the Environment Agency or local authority as required, same day or as soon as possible of the result of the investigation and corrective action or what still needs to be done with timescales.</li> </ul>

*Table 2. Routine actions and contingency actions to minimise odour and odour risks at Beech Farm*

Odour related issue	Potential risks and problems	Routine actions to minimise odour and odour risks	Contingency actions to minimise odour and odour risks
Review	<ul style="list-style-type: none"> <li>• New issues</li> <li>• New actions</li> </ul>	<ul style="list-style-type: none"> <li>• Environment Manager responsible for annual review of this plan or update sooner where a substantiated complaint results in making changes to related issues procedures, or any routine or contingency actions.</li> </ul>	
Change history	Date	Name	
Last updated	22/01/26	-	
Last review	-	-	
Next review	-	-	
<p>22/01/26 Updated plan for Application Variation V003 to increase the installation boundary to enclose more land for 3no. additional houses (total 10no. poultry houses) and places for rearing broiler chickens and include a mobile macerator as a directly associated activity.</p> <p>10/04/18 Created plan for Application for Bespoke Permit for rearing broiler chickens.</p>			

### Odour Complaint Report

Time and date of complaint	
Name and address of complainant	
Telephone number of complainants	
Date of odour	
Time of odour	
Location of odour, if not at above address	
Weather conditions <i>(Dry, rain, fog, snow)</i>	
Temperature <i>(Very warm, warm, mild, cold or degrees if known)</i>	
Wind strength <i>(None, light, steady, strong, gusting)</i>	
Wind direction <i>(e.g., from SW)</i>	
Complainant's description of odour What does it smell like?	
<p>Odour intensity</p> <p>0 No odour</p> <p>1 Very faint odour</p> <p>2 Faint odour</p> <p>3 Distinct odour</p> <p>4 Strong odour</p> <p>5 Very strong odour</p> <p>6 Extremely strong odour</p>	
<input type="checkbox"/> Duration (time)	
<input type="checkbox"/> Constant or intermittent in this period	
<input type="checkbox"/> Does the complainant have any other comments about the odour?	
Are there any other complaints relating to the installation, or to that location (either previously or relating to the same exposure):	
Any other relevant information:	
Do you accept that odour likely to be from your activities?	
What was happening on site at the time the odour occurred?	
Actions taken	

Complainant visited		
Complainant contacted with explanation Yes/No Date By whom		
Form completed by	Date:	Signed:

Environment Agency (2011); Additional guidance for H4 Odour Management: How to comply with your environmental permit.