

## SITE CONDITION REPORT

For full details, see H5 SCR guide for applicants v2.0 4 August 2008

**COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION**

**DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7**

**AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.**

<b>1.0 SITE DETAILS</b>	
Name of the applicant	G.S.T. Limited
Activity address	EPR/EP3228LA Badcocks Farm Poultry Unit, Saling Road, Stebbing, Dunmow, CM6 3XFZ
National grid reference	Study area for SCR centred on TL 67990 24901
Document reference and dates for Site Condition Report at permit application and surrender.	<ol style="list-style-type: none"><li>1. Application Bespoke Site Condition Report - to support an application for an environmental permit for rearing poultry under Schedule 1; Part 2; Section 6.9; Part A(1)(a) Rearing poultry or pigs intensively in an installation with more than - (i) 40,000 places for poultry.</li><li>2. Used desk top study to research, identify and examine in broad terms readily available information without intrusive investigation and a site walkover on 14<sup>th</sup> April 2025.</li></ol>
Document references for site plans (including location and boundaries)	<ol style="list-style-type: none"><li>3. Powell &amp; Co; W Grove Smith, Badcocks, Date 12/10/25, Revision A 21/11/25; 1:500 scale</li><li>4. Area of study 1.43ha.</li></ol>

**Note:**

In Part A of the application form, you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form, then you should submit the additional plan or plans with this site condition report.

## 2.0 Condition of the land at permit issue

Environmental setting including:	<u>Landscape setting</u>  <ol style="list-style-type: none"> <li>Study area located in National Character Area Profile: 86 South Suffolk and North Essex Clayland<sup>5</sup>. Area characterised as an undulating chalky boulder clay plateau dissected by numerous river valleys, giving a topography of gentle slopes in the lower, wider valleys and steeper slopes in the narrower upper parts. Fragments of chalk give many of the soils a calcareous character, which also influences the character of the semi-natural vegetation cover. The agricultural landscape is predominantly arable with a wooded appearance. There is some pasture on the valley floors. Field patterns are irregular despite rationalisation, with much ancient countryside surviving.</li> </ol>
	<p><u>Topography</u></p> <ol style="list-style-type: none"> <li>The study area is located on higher ground at an altitude of 85m and flat. The surrounding land gently rises to the north and is falling away to the south.</li> <li>There are 2no. existing poultry houses with concrete apron and associated drainage infrastructure in the study area and approximately half the land is unmade. Mouslin Wood Ancient Woodland is adjacent to the north and arable farmland to the east and south and pasture to the west. There are adjacent residential dwelling houses to the south.</li> </ol> <p><u>Geology</u></p> <ol style="list-style-type: none"> <li>Artificially modified landscaped ground is to be expected result of earthworks for construction of 2no. existing poultry houses started in the 1970s including removed a limited amount of topsoil and granular subsoil. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions, and instability.</li> <li>Natural superficial deposit onsite is Lowestoft Formation – Diamicton (chalky boulder clay). Sedimentary superficial deposit formed between 480 and 423 thousand years ago during the Quaternary period<sup>1</sup>.</li> <li>Bedrock geology onsite is London Clay Formation – Clay, silt, and sand. Sedimentary bedrock formed between 56 and 47.8 million years ago during the Palaeogene period<sup>1</sup>.</li> <li>Local geology has been logged below ground level (bgl) onsite BGS borehole reference TL62SE35 and at 1.93km to the southwest of the study area in Watch House Road, Stebbing BGS borehole reference TL62SE130<sup>2</sup>: -</li> </ol>

BGS borehole reference TL62SE35		Depth bgl m
Soil		1.1
Boulder Clay		13.0
Kesgrave Sands and Gravels		14.0
Red Crag		19.0
London Clay		19.5

BGS borehole reference TL62SE130		Depth bgl m
Topsoil & brown subsoil and gravel		1.00
Sand and gravel with thin clay bands		3.00
Brown sandy clay		4.00
London Clay		47.00
Woolwich & Reading Beds		66.00
Chalk		126.00

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### Hydrogeology

8. Secondary (undifferentiated) superficial aquifer in the study area. In general, these layers have been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type<sup>8</sup>.
9. Secondary superficial drift aquifer has medium groundwater vulnerability<sup>8</sup>. An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one-kilometre square grid. Groundwater vulnerability is described as High, Medium, or Low as follows:

High	Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
Medium	Intermediate, between high & low vulnerability
Low	Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

10. Unproductive bedrock aquifer in the study area. These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow<sup>8</sup>.
11. Study area located inside a Source Protection Zone 3 Total Catchment<sup>4</sup>. SPZs define the sensitivity of an area around a potable abstraction site to contamination. Environment Agency has defined SPZ around large and public potable groundwater abstraction sites to provide additional protection to safeguard drinking water quality. Zones show risk of contamination from activities that might cause pollution in the

	<p>zone. Zone 1 is an inner protection zone, 2 is an outer protection zone and zone 3 is the total catchment. Closer the activity, greater the risk.</p> <p>12. Study area located inside a Drinking Water Safeguard Zone for surface water<sup>4</sup>. Catchment areas that influence the water quality for their respective Drinking Water Protected Area (Surface Water). Environment Agency has established zones around public water supplies where additional pollution control measures are needed. Water Framework Directive requires that Drinking Water Protected Areas be identified and given necessary protection with the aim of avoiding deterioration in quality to reduce the level of purification treatment required in the production of drinking water.</p> <p>13. Study area located inside a nitrate vulnerable zone<sup>4</sup>. Areas designated as being at risk from agricultural nitrate pollution. Farmers operating within these areas must follow mandatory rules to tackle nitrate loss from agriculture including when land spreading manure and slurry from pig houses.</p> <p><b><u>Soil vulnerability classification - leaching potential</u></b></p> <p>14. Soilscape 9 across the study area characterised as lime-rich loamy and clayey soils with impeded drainage. Regards water protection - land is drained and nitrate vulnerable, potential for rapid pollution transport, surface capping can trigger sheet erosion of fine sediment<sup>10</sup>.</p> <p><b><u>Surface waters, hydrology &amp; catchment</u></b></p> <p>15. Study area located inside of the River Ter waterbody catchment, a tributary of the river Chelmer operational catchment and Essex Combined management catchment<sup>3</sup>. The Water Framework Directive (WFD) is an EU led framework for the protection of inland surface waters, estuaries, coastal waters, and groundwater through river basin-level management planning. In terms of surface water these basins are broken down into small units known as management, operational and water body catchments.</p> <p>16. Ecological status rating for River Ter waterbody catchment was Moderate as recently as 2019. Chemical status was Fail as recently as 2019 on account of priority hazardous substances – chemicals identified under WFD as posing significant risks to the environment or human health because of their toxicity, persistence, or ability to bioaccumulate. To achieve purpose of WFD, environmental objectives have been set and reported on by the Environment Agency at the end of each six-year cycle.</p> <p>17. No surface water features or networks in the study area.</p>
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	<p><b><u>Sources of flooding</u></b></p> <p>18. Study area located in Flood Zone 1<sup>6</sup>. Present day chance of flooding from rivers and the sea is very low staying at very low between 2036 and 2069 with climate change. Less than 0.1% chance of a flood each year<sup>7</sup>. Low lying areas that are close to rivers or sea are more likely to flood when water levels rise.</p> <p>19. Yearly chance of surface water flooding is Very Low staying at Very Low between 2040 and 2060 with climate change. Less than 0.1% chance of a flood each year<sup>7</sup>. Depicted present day potential for surface water flooding on land in the west of the study area on the concrete apron and adjacent ditch networks and higher chance between 2040 and 2060 with climate change. Surface water flooding is sometimes known as flash flooding happens when rainwater cannot drain away through normal drainage systems.</p> <p>20. Study area outside of a groundwater flood alert area<sup>7</sup>. Groundwater flooding is caused by unusually high groundwater levels when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, lasting weeks, or months.</p>
Pollution history including:	<p><b><u>Pollution incidents that may have affected land.</u></b></p> <p>21. Potential sources of ground contamination in the study area associated with the 2no. existing poultry houses - solid feedstuffs storage silos, storing poultry carcasses in secure containers, storing dirty water in belowground storage tanks.</p> <p>22. These sources may have resulted in contamination migrating into soil, surface water runoff, and seepage into groundwater. Potential contaminants associated with these sources include nutrient nitrogen, phosphorous, ammoniacal nitrogen, biological and chemical oxygen demand.</p> <p>23. Propose to demolish southern, smaller poultry house used for rearing turkeys. For redevelopment to erect a larger house in same place with greater floor area for rearing broiler chickens. Also proposing to erect a third poultry house on unmade land in the north of the study area. Demolition and construction work have potential to mobilise existing sources of contamination via disturbance of contaminated ground causing sediment runoff to surface water and facilitate contamination discharge to the ground. However, feed spillages would have been promptly cleared up and storing carcasses in secure containers and dirty water in below ground storage tanks have low probability of causing pollution and minor consequences as regards the superficial drift</p>

	<p>aquifer, source Protection Zone 3 and the Drinking Water Safeguard Zone for surface water in the study area.</p> <p>24. Potential release of hazardous materials during demolition is not expected owing to steel roof on the smaller poultry house.</p> <p><b><u>Historical land-uses and associated contaminants</u></b></p> <p>25. Established historical land-uses in study area from OS maps at the 1:2,500 and 1:1,250 scale<sup>9</sup> and aerial photographs<sup>8</sup>: -</p> <table border="1"> <tbody> <tr> <td>1875</td><td>Greenfield for arable agriculture or pasture, boundaries inside study area with trees on east and south side</td></tr> <tr> <td>1897</td><td>Unchanged</td></tr> <tr> <td>1921</td><td>Unchanged</td></tr> <tr> <td>1953</td><td>Greenfield for arable agriculture or pasture, boundaries inside study area with trees on east and south side. A drain is marked on the eastern boundary and a grass road on the south</td></tr> <tr> <td>1954</td><td>Unchanged</td></tr> <tr> <td>1969</td><td>Unchanged</td></tr> <tr> <td>1975</td><td>Greenfield for arable agriculture or pasture, boundaries inside study area with trees on east and south sides. Erected a building with aprons in the south the smaller of present-day poultry houses with access off the lane to the east.</td></tr> <tr> <td>1981</td><td>Unchanged</td></tr> <tr> <td>2003</td><td>Unchanged</td></tr> <tr> <td>2009</td><td>Erected second of two buildings and extended aprons in south half of the study area comprising the present-day poultry houses with access off the lane to the east. Vegetation on the residual unmade laned to the north has been extensively removed or covered in an aerial photograph.</td></tr> <tr> <td>2013</td><td>Unchanged, vegetation on much of residual unmade land has recovered</td></tr> <tr> <td>2019</td><td>Unchanged</td></tr> <tr> <td>2022</td><td>Unchanged</td></tr> </tbody> </table> <p>26. No records of past land use for any historical industrial land uses, tanks, energy features, petrol stations, garages, military land, railway, waste sites historical or active landfill in the study area<sup>8</sup>.</p> <p><b><u>Visual/olfactory evidence of existing contamination</u></b></p> <p>27. No visual/olfactory evidence for existing contamination inside the study area on the site walkover.</p> <p><b><u>Evidence of damage to pollution control measures</u></b></p> <p>28. No evidence for damage to any pollution control measures inside the study area on the site walkover including the solid</p>	1875	Greenfield for arable agriculture or pasture, boundaries inside study area with trees on east and south side	1897	Unchanged	1921	Unchanged	1953	Greenfield for arable agriculture or pasture, boundaries inside study area with trees on east and south side. A drain is marked on the eastern boundary and a grass road on the south	1954	Unchanged	1969	Unchanged	1975	Greenfield for arable agriculture or pasture, boundaries inside study area with trees on east and south sides. Erected a building with aprons in the south the smaller of present-day poultry houses with access off the lane to the east.	1981	Unchanged	2003	Unchanged	2009	Erected second of two buildings and extended aprons in south half of the study area comprising the present-day poultry houses with access off the lane to the east. Vegetation on the residual unmade laned to the north has been extensively removed or covered in an aerial photograph.	2013	Unchanged, vegetation on much of residual unmade land has recovered	2019	Unchanged	2022	Unchanged
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Evidence of historic contamination, for example, historical site investigation, assessment, remediation, and verification reports (where available)	29. No records of any historical site investigation, assessment, remediation, or verification reports to evidence any historic contamination of land in the study area.
Baseline soil and groundwater reference data	30. Based on the information available intrusive investigation to establish baseline soil and groundwater reference data in the study areas was not considered warranted.
References & supporting information	<ol style="list-style-type: none"> <li>1. British Geological Survey; <i>Geology Viewer</i>. Available at <a href="https://www.bgs.ac.uk/map-viewers/bgs-geology-viewer/">https://www.bgs.ac.uk/map-viewers/bgs-geology-viewer/</a></li> <li>2. British Geological Survey; <i>Onshore borehole records</i>. Available at <a href="https://www.bgs.ac.uk/information-hub/borehole-records/">https://www.bgs.ac.uk/information-hub/borehole-records/</a></li> <li>3. Defra website; <i>Catchment Data Explorer</i>. Available at <a href="https://environment.data.gov.uk/catchment-planning">https://environment.data.gov.uk/catchment-planning</a></li> <li>4. Government website: <i>Source Protection Zones merged England; Drinking Water Safeguard Zones (Surface Water) (England), Nitrate Vulnerable Zones 2017 Designations (England)</i>. Available at <a href="https://magic.defra.gov.uk/">https://magic.defra.gov.uk/</a></li> <li>5. Government website <i>National Character Area Profiles: information for local decision making</i>. Available at <a href="https://www.gov.uk/guidance/national-character-area-profiles-information-for-local-decision-making">https://www.gov.uk/guidance/national-character-area-profiles-information-for-local-decision-making</a></li> <li>6. Government website; at <a href="https://flood-map-for-planning.service.gov.uk/">https://flood-map-for-planning.service.gov.uk/</a></li> <li>7. Government website; at <a href="https://www.gov.uk/check-long-term-flood-risk">https://www.gov.uk/check-long-term-flood-risk</a></li> <li>8. Groundsure Enviro Insight; <i>Badcocks Farm Poultry Unit, Stebbing, Date 23/11/2025</i>; Available at <a href="https://insights.groundsure.io/">https://insights.groundsure.io/</a></li> <li>9. Groundsure Map Insight; <i>Hubbard's Farm, Shalford Green, Shalford, Essex, CM7 5AZ, Date 20/11/2025</i>; Available at <a href="https://insights.groundsure.io/">https://insights.groundsure.io/</a></li> <li>10. Landis; <i>Soilscapes Viewer</i>. Available at <a href="https://www.landis.org.uk/soilscapes/">https://www.landis.org.uk/soilscapes/</a></li> </ol>

<b>3.0 Permitted activities.</b>	
Permitted activities.	1. No permitted activities in the study area.
Non-permitted activities undertaken	2. Rearing of poultry with less than 40,000 places for turkeys
Document references for: <ul style="list-style-type: none"> <li>• plan showing activity layout; and</li> <li>• environmental risk assessment.</li> </ul>	Powell & Co; <i>W Grove Smith, Badcocks, Date 12/10/25, Revision A 21/11/25; 1:500 scale</i> Application Bespoke Environmental risk assessment

Note:

In Part B of the application form, you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and raw materials, fuels, intermediates, products, wastes, and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater, we may need to request further information from you or even refuse your permit application.

**Sections 4.0-10.0 not required for the permit application.**

<b>4.0 Changes to the activity</b>	
<b>Have there been any changes to the activity boundary?</b>	
<b>Have there been any changes to the permitted activities?</b>	
<b>Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?</b>	
<b>Checklist of supporting information</b>	

<b>5.0 Measures taken to protect land.</b>	
<b>Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated.</b>	
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"><li>• Inspection records and summary of findings of inspections for all pollution prevention measures</li><li>• Records of maintenance, repair, and replacement of pollution prevention measures</li></ul>

**6.0 Pollution incidents that may have had an impact on land, and their remediation.**

Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there.

**Checklist of supporting information**

- Records of pollution incidents that may have impacted on land.
- Records of their investigation and remediation

**7.0 Soil gas and water quality monitoring (where undertaken)**

Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.

**Checklist of supporting information**

- Description of soil gas and/or water monitoring undertaken
- Monitoring results (including graphs)

**8.0 Decommissioning and removal of pollution risk**

Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.

**Checklist of supporting information**

- Site closure plan
- List of potential sources of pollution risk
- Investigation and remediation reports (where relevant)

**9.0 Reference data and remediation (where relevant)**

Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.

If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state." If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.

**Checklist of supporting information**

- Land and/or groundwater data collected at application (if collected)
- Land and/or groundwater data collected at surrender (where needed)
- Assessment of satisfactory state
- Remediation and verification reports (where undertaken)

**10.0 Statement of site condition**

Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:

- the permitted activities have stopped.
- decommissioning is complete, and the pollution risk has been removed.
- the land is in a satisfactory condition.