Site Condition Report (2021)

On Behalf of Eco Verde Energy Limited

Attleborough AD Plant, Ellingham Road, Attleborough, Norfolk, NR17 1AE

Prepared by:

Emily Shann Pitts BSc (Hons) C Env MIEMA

ETL573/2021

Earthcare Technical Ltd
Manor Farm
Chalton
Waterlooville
Hants PO8 0BG

Tel: 02392 290 488

emily@earthcaretechnical.co.uk

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QUALITY CONTROL

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Quality control sign off

Document Author	Emily Shann Pitts	
Document Reviewer	Anna Becvar	

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1. Introduction

1.1.1 This document, comprising a Site Condition Report (SCR), has been prepared by Earthcare Technical Ltd on behalf of the client Eco Verde Energy Limited in support of an application for a substantial variation of a standard rules installation permit (SR2012 No9) to a bespoke installation permit for an anaerobic digestion (AD) plant including the use of resultant biogas at Attleborough AD Plant, Ellingham Road, Attleborough, Norfolk, NR17 1AE herein termed 'the Site'. The plant will be operated by Eco Verde Energy Limited (EVE), herein termed 'the Operator'.

1.1.2 The original permit for the site was a Standard Rules Waste Operation permit (SR2010No16) issued to S.S Agri Power Limited in November 2012 (EPR/BB3931RA). In October 2015 a variation notice was issued to vary the permit to an installation permit (SR2012No9). In May 2020 the varied permit was issued to reflect the company name change to Attleborough Eco Electric.

1.1.3 The current infrastructure for the on-farm AD plant includes silage clamps, two feeders, two primary digesters, a secondary digester, a separator, a covered digestate storage lagoon, a flare and a combined heat and power engine (CHP).

1.1.4 The permit variation, which this SCR supports, is to vary the permit to a bespoke installation permit to reflect the addition of land to the permitted area for a food waste anaerobic digestion facility including the following new infrastructure: a building for food waste reception and processing, as well as digestate separation and fibre storage, pasteurisers, three primary digesters and a secondary digester, covered digestate lagoon, surface water lagoon, covered dirty water lagoon, gas upgrade equipment, grid entry unit, back-up boiler and a dual fuel flare.

1.1.5 The existing AD plant will operate separately to the new proposed AD plant, but the existing CHP will provide heat and power for the existing and proposed digesters. There will be secondary containment to CIRIA C736 standard around all the tanks.

1.1.6 The application also includes a permit transfer application to change the operator from Attleborough Eco Electric Limited to EVE. It is also requested that the name of the site be changed to 'Attleborough Anaerobic Digester' as 'Crows Hall AD' on the current permit is no longer used.

1.1.7 The Environmental Permitting Regulations Site Condition Report guidance for applicants H5,[1] defines a SCR as a document that describes and records the condition of the land and groundwater at a site at particular point in time. When an operator applies to the Environment Agency to surrender the Environmental Permit, the SCR can be used to demonstrate that the land and groundwater have been protected during the lifetime of a regulated facility and that the land is in a satisfactory state.

[1] H5, Site condition report – guidance and templates, LIT Version 3.0 April 2013.

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1.1.8 There would have been no requirement for a SCR for the original standard rules permit application and there is no record of an SCR written to support the variation to an installation permit in 2015.

1.1.9 This report describes the site condition at the time of the permit application (August 2021). It is designed to be updated and retained through the operational phase of the regulated facility, for use as a reference at the end of the operational phase, when the operator makes an application to surrender the Environmental Permit.

1.1.10 The SCR comprises information gathered during a site walkover by Earthcare Technical Limited (24th March 2021) and a desk top study utilising:

- publically available information;
- Report on Ground Investigation, A.F. Howland Associates (October 2019);
- Phase II Land Contamination Assessment, A.F. Howland Associates (May 2020);
- Detailed Quantitative Controlled Water Risk Assessment, A.F. Howland Associates (October 2020); and
- Enviro Insight Report, Groundsure (July 2021).

1.1.11 Please refer to the following SCR template which has been replicated from the guidance for the purposes of consistency.

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2. Site Details

Name of applicant	Eco Verde Energy Limited
Activity address	Attleborough AD Plant, Ellingham Road, Attleborough, Norfolk, NR17 1AE
National grid reference	TM 03335 95629
Site footprint[2]	The proposed site footprint (permitted area) is approximately 5.1 hectares (12.6 acres)
Current infrastructure	• Access road • Weighbridge • 2 x silage clamps (30m x 95m) (approx. 10,000 tonnes in each) • 2 x solid feeders (20 tonnes capacity each); • 2 x primary digesters (2,000m^3 each); • 1 x secondary digester (1,500m^3); • Dirty water storage lagoon (500m^3); • Mixing pumps; • 1 x screw press separator and associated fibre storage bay; • Covered digestate lagoon (10,000m^3); • Gas compressors; • 1 x carbon filter prior to combined heat and power engine (CHP); • 1 x CHP (1560kWe); • Boiler – to be decommissioned; • Mississippi dryer – no longer used for drying digestate. To be decommissioned; • Emergency flare; • Heat exchangers; • Control room / site office.
Proposed infrastructure	The dirty water storage lagoon, the Mississippi dryer, the boiler and the flare are being decommissioned as part of the planned improvement work. Pipework is being moved above ground (apart from utilities) and the whole site will benefit from secondary containment designed to CIRIA C736. The additional proposed infrastructure includes: • 3 x Primary digesters (26.00mØ) 3,823m^3 working capacity • 1 x Secondary digester (26.00mØ) 3,823m^3 working capacity • Technical Building • Pre-Storage Tank (10.00mØ) 424m^3 working capacity • 3 x Small pre-storage tank (3No. @ 3.50mØ) 67m^3 working capacity • 3 x Pasteurisation tanks (30m^3 each.) • Oxygen generator

[2] https://magic.defra.gov.uk/MagicMap.aspx Accessed xx June 2021

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	• Switchboard room
	• Weighbridge office
	• Site office
	• Weighbridge
	• Very Small aperture terminal (VSAT) for satellite communication
	• Grid Entry Unit
	• Propane tanks
	• Gas upgrading unit
	• Back-up boiler
	• Heating Buffer Tank
	• Switchboard Container
	• Gas Processing Unit
	• Active Carbon Tanks (2No.)
	• Reception Building (30.20m x 45.20m) containing:
	  ○ CentriAir air handling and odour abatement system
	  ○ depackaging bunker (30 m³)
	  ○ depackaging plant
	  ○ RUNI Packaging compactor
	  ○ feeding system (60 m³)
	  ○ mixing pit (8m x 6m x 3m (d)) 100 m³
	  ○ water tank (Ø 3 m 7,70 m) 67 m³
	  ○ storage bay (8m x 19m 3m(h)) 456 m³
	  ○ storage bay (10m x 7.5m x 3m(h)) 225 m³
	• Ferric chloride storage tank (20 m³)
	• Dual Fuel Flare with 10.00m Exclusion Zone
	• Covered Waste-AD Digestate Lagoon (10,000m³)
	• Containment Sump (8No.) - TBC
	• Bund Gate (1No.)
	• LV Switchboard
	• Emergency Generator
	• Condensate Pit
	• 2 No. above ground silage effluent tanks (9.15m^3 each)
	• Replacement covered dirty water lagoon (175m^3)
	• Surface Water Lagoon (936m^3)

Document reference and dates for Site Condition Report at permit application	There are no records of previous Site Condition Reports. It is likely that in 2012 the original permit was issued without the provision of a SCR. There is no record of an SCR produced as part of the variation application to an Installation site in October 2015.
Document References for site plans (including location and boundaries)	Figure 1: Site Location Plan, Plandescil (24727 - 150 Rev E) Figure 2: Permit Boundary Plan, Plandescil (24727 - 600 Rev 0) Figure 3: Emission Point Plan, BioConstruct (B202103 / A15) Figure 4: Proposed Site Overview Layout, Plandescil (24727/010 Rev H) Figure 5: Proposed Drainage Layout, Plandescil (24727/007 Rev C) (See Figures)

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3. Condition of the Land at Permit Issue

Environmental setting including: • Geology • Hydrogeology • Surface waters	**Geology** As detailed in Section 5 of the Enviro Insight Report (Appendix A): • The bedrock geology comprises white chalk; • The superficial geology is Diamicton (Till). The 2019 Ground Investigation Report found made ground at all 13 of the exploratory holes (2 No. boreholes, 6 No. windowless sample holes and 5 No. plate load tests). The survey report further describes the superficial geology; various superficial deposits were mapped across the site including River Terrace Deposits / Alluvium along the southern site boundary and an outcrop of Lowestoft Formation (sand and gravel) in the north east corner of the site. The superficial deposits across the rest of the site were mapped as Lowestoft Formation (Diamicton). The full investigation report can be found in Appendix B. **Hydrogeology** As detailed in Section 6 of the Enviro Insight Report (Appendix A): • The aquifer status of groundwater held within superficial geology is shown on a plan on Page 32 of the report. Part of the site is located upon a Secondary A aquifer and part of the site is located upon a Secondary undifferentiated aquifer. The superficial aquifers are designated as having medium vulnerability. • The aquifer status of the groundwater held within the bedrock geology (chalk) is a principal aquifer, designated as low vulnerability. • The site is not within a groundwater Source Protection Zone. • In 2015 the groundwater body catchment Cam and Ely Ouse Chalk was classified by the Environment Agency as having an overall water body classification of 'poor' comprising of 'poor' for ecological status and 'poor' for chemical status. The site is not located within a Drinking Water Protected Area or Safeguard Zone.[3] There are two historic groundwater abstraction licences within proximity to the site: • 230m to the south east for dust suppression; this is thought to be associated with quarrying activities and be no longer in use. • 730m south west for general farming & domestic

[3] https://magic.defra.gov.uk/MagicMap.aspx Accessed 26th July 2021

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	Surface Water There are watercourses within close proximity to the site. There is a drain which runs to the west of the site access road and is within approximately 13m of the permitted site boundary. There is a small watercourse adjacent to the southern boundary of the site. A tributary of the River Thet runs approximately 200m south of the site in a south westerly direction. In 2016 the stretch of the River Thet upstream of Swangey Fen was classified by the Environment Agency as having an overall water body classification of 'poor' comprising of 'poor' for ecological status and 'good' for chemical status. There is a historic surface water abstraction licence 212m south-east of the site for dust suppression. This is thought to be associated with quarrying activities and no longer used. **Flood Risk** The site is in a Flood zone 1 which means that there is a low probability of flooding.[4] As detailed in Section 9 of the Enviro Insight report there is a risk of surface water flooding within isolated areas of the predominantly near the western site boundary; the highest risk being 1 in 1000 return period flood with a depth of between 0.1m and 0.3m. See Surface water flooding map on page 54 of Enviro Insight Report. A Flood Risk Assessment was submitted as part of the planning application for the site [5] and concluded that: • The requirements of the Sequential Test have been met, with the location of the site within land assessed as being outside of the 1 in 100 year (1%) event and 'Less Vulnerable' classification of the development. • The site is at a low risk of surface water ponding; however, a surface water flow path extends along the existing access road, with another flow path to the west of the site of which follows the route of the existing ditch. • There are no known records of sewer flooding within this area, with the only on-site sewer being an abandoned foul water sewer as detailed within available sewer records. • On-site borehole records infer that groundwater in the area is at depths in excess of 1.95m below ground level. There are no records of groundwater flooding in the area. • There are no other significant sources of flooding at the site; all other potential sources are classified as 'Very Low' or 'Negligible'.

[4] https://flood-map-for-planning.service.gov.uk/ Accessed 15th July 2021
[5] Flood Risk Assessment, RSK, 881835-R1(04)-FRA, November 2019

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Pollution history including: • Pollution incidents that may have affected land • Historical land uses and associated contaminants • Any visual/ olfactory evidence of existing contamination • Evidence of damage to pollution prevention measures	**Pollution incidents that may have affected land** As detailed in Section 4.18 of the Enviro Insight Report (Appendix A) since 2006 there have been 3 recorded Category 1 or 2 Pollution Incidents within 500m of the study site. All of these incidents are recorded as Category 4 (No Impact) for land. **Permitted activities that may have affected land** As detailed in Section 3 of the Enviro Insight Report (Appendix A) there is an historical landfills 3m east of the site boundary (map on Page 19 of Enviro Insight Report). Landfilling activity at this site was last recorded in 1960. Detailed Quantitative Controlled Water Risk Assessment by A.F. Howland Associates (2020) refer to a previous report on the landfill by Harrison Group Environmental Limited in 2011: *The ground investigations carried out by Harrison Group Environmental Limited (2011a and 2011b), have proven the composition of the historic landfill to the north of the site, as well as proving that it is unlined and sited within the granular deposits of the Lowestoft Formation.* *The 2011b investigation was limited to the south-west corner of the landfill, along the boundaries adjacent to the AD plant site. This investigation found the fill materials of the landfill to comprise abundant anthropogenic constituents such as brick, concrete, wire, iron, ceramic tiles, weed killer cans11, nylon rope, cables, plastic, decomposed wood, glass, ash, polythene sheets, and burnt/decomposed straw.* **Historical / current land uses** As detailed in Section 1.1 of the Enviro Insight Report (Appendix A) relevant historical land uses are: • There was an on-site gravel pit recorded in 1907. • The historical landfill detailed above. As detailed in Section 4 of the Enviro Insight Report (Appendix A) the only current industrial land use of relevance is the existing anaerobic digestion plant which this SCR relates to, in addition to the proposed site. The proposed new permitted area is located on an area of land that was occupied by one turkey shed from the adjacent turkey breeding farm and an open storage yard area. The shed was demolished in 2021 to make way for the new digester tanks and associated infrastructure. There were asbestos cement sheets used in the shed construction which were removed in accordance with a method statement by a specialist contractor (Anglian Demolition and Asbestos Limited). Google Earth images showing the site in 2005 prior to site construction (greenfield site) and in 2017 and 2019 as an operational agricultural AD plant are in Appendix F

	Potential contaminants associated with previous site uses There may be minor land contamination resulting from minor spillages from the existing anaerobic digestion operation and turkey breeding operation (relevant to new area of land to be permitted). In accordance with the conclusions of the Detailed Quantitative Controlled Water Risk Assessment, A.F. Howland Associates (October 2020): • *Previous investigations have recorded elevated concentrations of ammonia within the groundwater on site.* • *Spatial analysis suggests that the primary source of contamination is off site, possibly the historic landfill site.* **Any visual / olfactory evidence of existing contamination** 2019 Ground Investigation Report found fragments of asbestos containing materials were found in two of the windowless sample holes at less than 5% volume. These sample point WS05 and WS06 are outside the proposed permitted area. At the time of the site walkover carried out by Earthcare Technical Limited (23rd March 2021), there was no evidence of existing site contamination either within the current or proposed permitted areas. **Evidence of damage to pollution prevention measures** At the time of the site walkover carried out by Earthcare Technical Limited (23rd March 2021), there was evidence of minor damage to the surfacing in front of the silage clamps. There was no evidence of damage to the concrete around the digester tanks. There was no secondary containment in place.
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports	Please see: • Above under 'Any visual / olfactory evidence of existing contamination' • Ground Investigation Report (2019) (Appendix B) • Phase II Land Contamination Assessment (May 2020) (Appendix C)
Baseline soil and groundwater reference data	Baseline soil and groundwater data can be found in the Ground Investigation Report (2019) (Appendix B) and the Phase II Land Contamination Assessment (May 2020) (Appendix C).
Supporting information	• Enviro Insight Report (Appendix A) • Ground Investigation Report (2019) (Appendix B) • Phase II Land Contamination Assessment (May 2020) (Appendix C) • Detailed Quantitative Controlled Water Risk Assessment (October 2020) (Appendix D) • Site Photographs (Appendix E) • Google Earth Images (Appendix F)

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4. Permitted Activities

Proposed Permitted activities	Schedule 1 5.4 A(1)(b)(i) - Biological Treatment (Anaerobic digestion / more than 100 tonnes per day treatment capacity) of the Environmental Permitting Regulations 2016 (as amended).
Non – permitted activities	The Directly Associated Activities include: • Storage of waste pending recovery • Raw material storage • Physical treatment including preparation of solid feedstocks • Dirty water, storage and treatment • Chemical addition –addition of process chemicals as required to control hydrogen sulphide in biogas. • Storage of digestate • Treatment of digestate • Gas storage, drying and treatment • Burning of biogas in CHP engine & boiler • Gas upgrading to biomethane including addition of propane and odorant • Use of emergency flares required only for short periods of breakdown or maintenance of the facility • Use of pressure release valves to protect the integrity of the plant (emergency use only). • Surface water collection and discharge
Document references for : • Plan showing activity layout; and • Environmental risk assessment	• Proposed Site Overview Layout, Plandescil (24727/010 Rev H) • Environmental Risk Assessment (Appendix A of Environmental Management System Manual (ATT-OD-01 EMS Manual) • Air Quality Impact Assessment (ETL573/AQIA/V1.0/Aug 2021)

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Sections 4 – 7 inclusive are only relevant to the existing permitted area

4.0 CHANGES TO THE ACTIVITY	
Have there been any changes to the activity boundary?	There have been no changes to the activity boundary since permit issue in November 2012. Extension of permit boundary part of current permit application (August 2021)
Have there been any changes to the permitted activities?	The original permit for the site was a Standard Rules Waste Operation permit (SR2010No16) issued to S.S Agri Power Limited in November 2012 (EPR/BB3931RA). In October 2015 a variation notice was issued to vary the permit to an installation permit (SR2012No9) which reflected an increase in the total treatment capacity of the plant to >100 tonnes per day.
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	There was no SCR submitted for the original permit application in 2012 as it was for a waste operation permit for which no SCR was required. Substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents stored at the site, their storage location and purpose are detailed within the Inventory of Substances Appendix F.
Checklist of supporting information	• Inventory of substances (Appendix F)

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5.0 MEASURES TAKEN TO PROTECT LAND	
All permitted areas which require containment due to drainage and/or in the event that spillages may occur have been entirely surfaced with impermeable hardstanding e.g. concrete or asphalt, since the AD plant was constructed. Since site commissioning the drainage system has been configured such that all site surface water is collected as 'dirty' in the dirty water lagoon and either used in the AD process or spread to land. The drainage system and the dirty water lagoon are being improved as part of the current site development work. There has been no secondary containment in place since permit issue. However there have been no catastrophic failures to date. It is likely that little or no deterioration of site soils has occurred since permit issue and land is therefore likely to be in a satisfactory condition. The risk of the site being contaminated as a result of permitted activities are therefore considered to be negligible. However no intrusive sampling has been undertaken. This is justified on the basis of the standard of engineering for pollution prevention purposes and the review of the available information.	
Checklist of supporting information	• Site photos from walkover (Appendix E).

6.0 POLLUTION INCIDENTS THAT MAY HAVE HAD AN IMPACT ON LAND, AND THEIR REMEDIATION	
No pollution incidents have been reported which may have affected the ground condition. As such, no intrusive investigation or remediation excluding the incident clean-up has been carried out.	
Checklist of supporting information	• Groundsure Enviro Insight Report (Appendix A)

7.0 SOIL GAS AND WATER QUALITY MONITORING (WHERE UNDERTAKEN)	
Baseline soil and groundwater data can be found in the Ground Investigation Report (2019) (Appendix B) and the Phase II Land Contamination Assessment (May 2020) (Appendix C).	
Checklist of supporting information	• Ground Investigation Report (2019) (Appendix B) • Phase II Land Contamination Assessment (May 2020) (Appendix C)

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Figures

Figure 1: Site Location Plan (24727 - 150 Rev E)

Figure 2: Permit Boundary Plan (24727 - 600 Rev 0)

Figure 3: Emission Point Plan, BioConstruct (B202103 / A15)

Figure 4: Proposed Site Overview Layout, Plandescil (24727/010 Rev H)

Figure 5: Proposed Drainage Layout, Plandescil (24727/007 Rev C)

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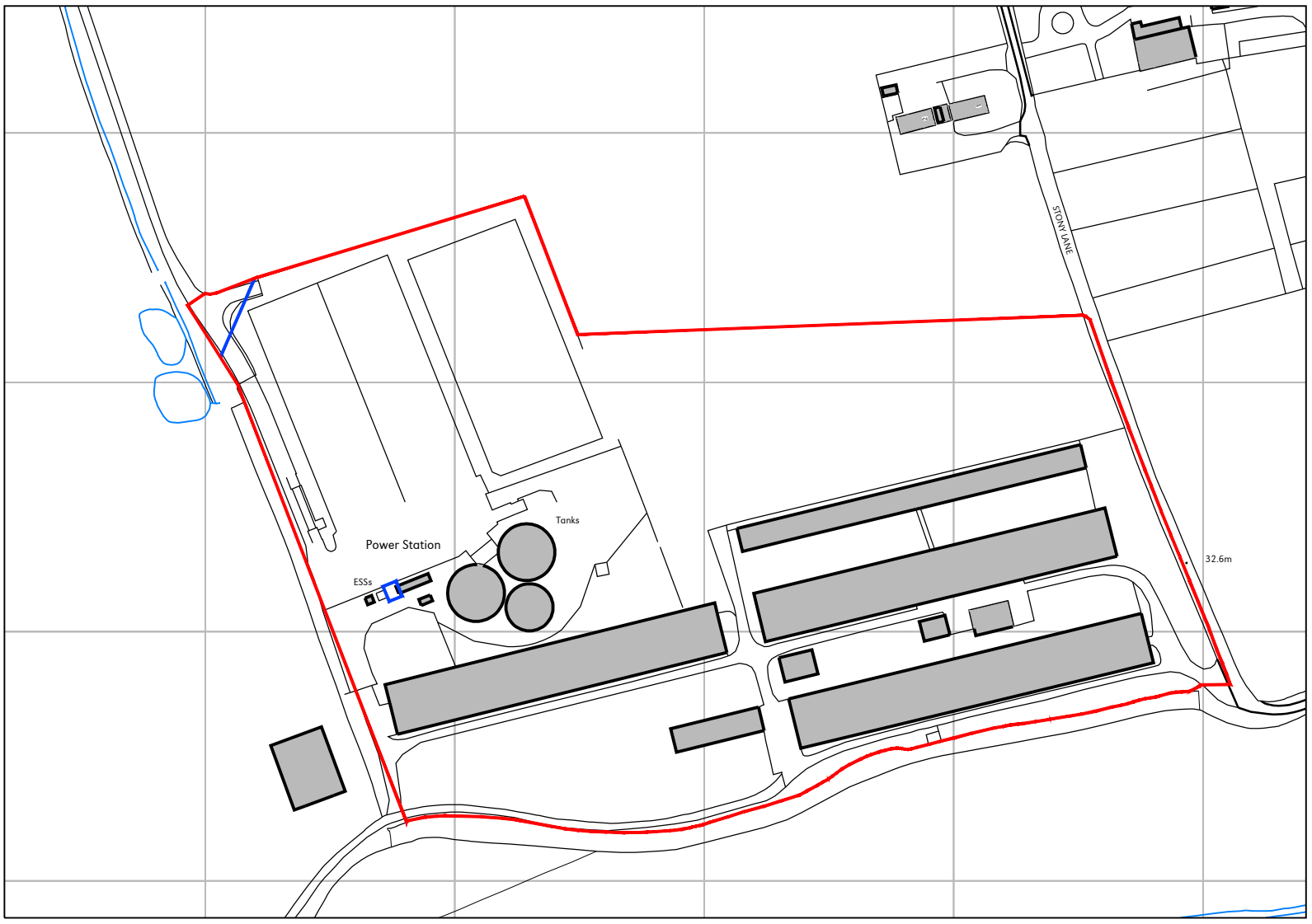

OS Location Plan
Scale 1:2500

Site Location Plan 1
Not to Scale

Site Location Plan 2
Not to Scale

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1:2500 - DRAWING SCALE REFERENCE (m)

50 25 0 25 50 75 100 125

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N

Key

- Site Boundary (Area - 67,594.50m² / 6.75945 Ha)
- Land Registry Land Divisions

APPROVAL & COMMENT

Rev	Date	Rev By	Chkd	Description
E	22-07-21	AF	OAJ	Site Boundary Amended
D	13-07-21	AF	OAJ	Minor Amendments
C	30-04-21	JHB	OAJ	Minor Amendments
B	13-01-20	MJP	OAJ	Client Name Amended
A	10-01-20	MJP	OAJ	Second Issue
0	26-07-19	-	OAJ	First Issue

plandescil
consulting engineers

Connaught Road Attleborough Norfolk NR17 2BW
Telephone: (01953) 452001 Fax: (01953) 456955
E-mail: pdc@plandescil.co.uk www.plandescil.co.uk

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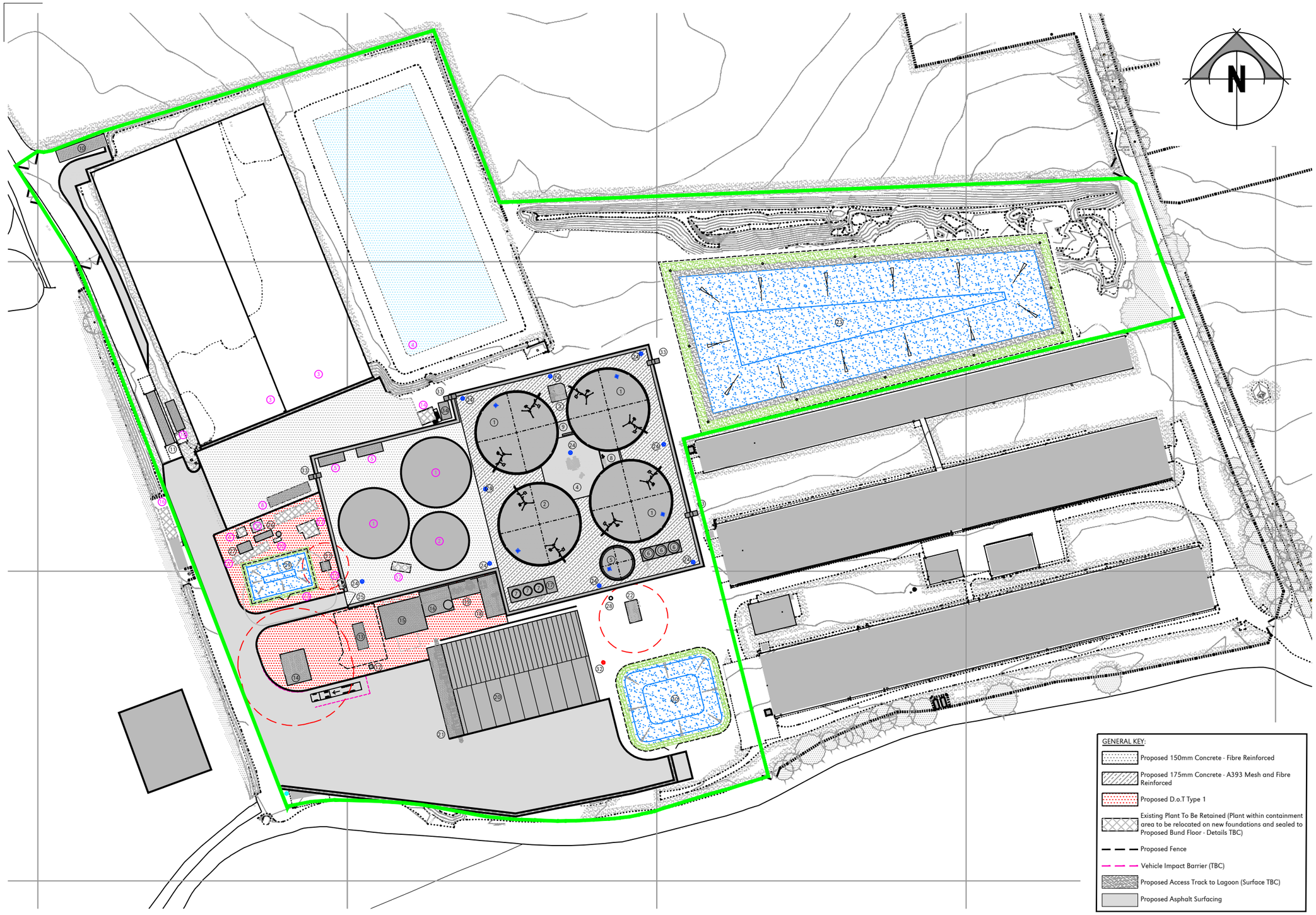
Client
Attleborough AD Plant Limited

Project
Attleborough AD Plant, Attleborough, Norfolk, NR17 1AE

Drawing Title
Site Location Plan

Scale	U.N.O.	Date	Drawn By
As Noted (A3)		July 2019	MJP

Drawing No. 24727/150 Rev E



EXISTING PLANT KEY:

1. Digester (2No.) (23mØ)
2. Fermenter (19mØ)
3. Silage Clamp (2No.) (30m x 95m)
4. Covered Lagoon
5. Feedhopper (2No.) - To Be Repositioned
6. Substation
7. Transformer
8. CHP Engine - To Be Repositioned
9. Storage Container - To Be Repositioned
10. Chiller & Oil Container
11. Technical Container
12. Boiler
13. Dirty Water Holding Lagoon - To Be Regraded/Relined
14. Separator
15. Flare - To Be Removed
16. Welfare Facility / Site Office - To Be Repositioned

PROPOSED PLANT KEY:

1. BioConstruct Fermenter (3No. @ 26.00mØ)
2. BioConstruct Post-Fermenter (26.00mØ)
3. Reception Tank
4. Technical Building
5. Pre-Storage Tank (10.00mØ)
6. Pre-Storage Tank (3No. @ 3.50mØ)
7. Pasteurisation Tank (3No.)
8. Oxygen Generator
9. Switchboard Room
10. Site Office
11. Weighbridge
12. VSAT
13. Grid Entry Unit
14. Propane Tanks
15. Gas Upgrading Unit
16. Boiler, Heating Buffer Tank
17. Switchboard Container
18. Gas Processing Unit
19. Active Carbon Tanks (2No.)
20. Reception Building (30.20m x 45.20m)
21. Odour Control Filter (1No.)
22. Flare - BioConstruct (10.00m Exclusion Zone)
23. Digestate Storage Lagoon (10,000m³ Storage)
24. Containment Sump (8No.) - TBC
25. Bund Gate (1No.)
26. LV Switchboard
27. Emergency Generator
28. Condensate Pit
29. Dirty Water Holding Lagoon (175m³ Storage)
30. Surface Water Attenuation Lagoon (936m³ Storage)
31. Flare - EVE (7.50m Exclusion Zone TBC By Client)
32. Borehole - Position TBC
33. Stair Access (4No.)
34. Leachate Tank (20,000l - Capacity TBC)

GENERAL KEY:

- Proposed 150mm Concrete - Fibre Reinforced
- Proposed 175mm Concrete - A393 Mesh and Fibre Reinforced
- Proposed D.o.T Type 1
- Existing Plant To Be Retained (Plant within containment area to be relocated on new foundations and sealed to Proposed Bund Floor - Details TBC)
- Proposed Fence
- Vehicle Impact Barrier (TBC)
- Proposed Access Track to Lagoon (Surface TBC)
- Proposed Asphalt Surfacing

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APPROVAL & COMMENT

Key

Permit Boundary (49,139m² / 4.9139 Ha)

1:1250 - DRAWING SCALE REFERENCE (m)

20 10 0 10 20 30 40 50 60

plandescil
consulting engineers
Connaught Road Attleborough Norfolk NR17 2BW
Telephone: (01953) 452001 Fax: (01953) 456955
E-mail: pdc@plandescil.co.uk www.plandescil.co.uk
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Client: Attleborough AD Plant Limited

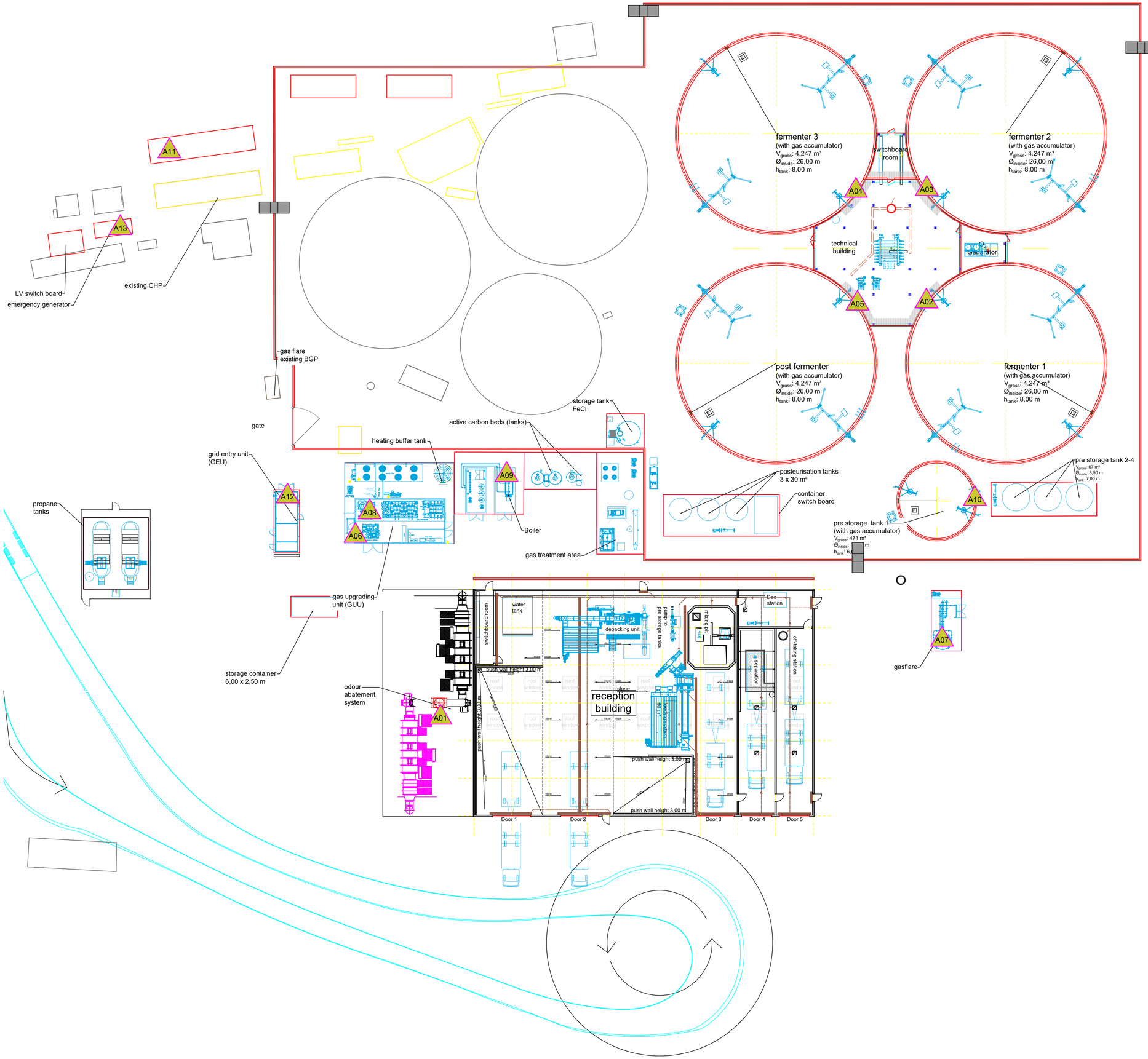
Project: Attleborough AD Plant, Attleborough, Norfolk, NR17 1AE

Drawing Title: Proposed Permit Boundary Site Layout Overlay

Rev	Date	Rev By	Chkd	Description
0	27-07-21	-	OAJ	First Issue

Scale: 1:1250 (A3) U.N.O. | Date: July 2021 | Drawn By: AF

Drawing No. 24727/600 | Rev 0



emission points

A01	exhaust stack odour abatement system
A02	emergency pressure relief valve on fermenter tank 1
A03	emergency pressure relief valve on fermenter tank 2
A04	emergency pressure relief valve on fermenter tank 3
A05	emergency pressure relief valve on post fermenter tank
A06	CO vent from gas upgrading unit
A07	emergency gas flare
A08	emergency pressure relief valve on gas upgrading unit
A09	exhaust stack Boiler
A10	emergency pressure relief valve on pre storage tank 1
A11	exhaust stack CHP (of existing AD-Plant)
A12	pressure relief valve GEU
A13	exhaust emergency generator

caption

	new building / equipment
	existing components
	components to remove
	access road

N W O S

BIOCONSTRUCT

building owner:	plan drafter:
Attleborough Eco Electric Limited 4th Floor 36 Spital Square London E1 6DY	BioConstruct GmbH Wellingstraße 66 D-49328 Melle Tel.: +49 (0)5226 / 5932-0 Fax: +49 (0)5226 / 5932-11

place: Ellingham Road, Attleborough, NR17 1AE

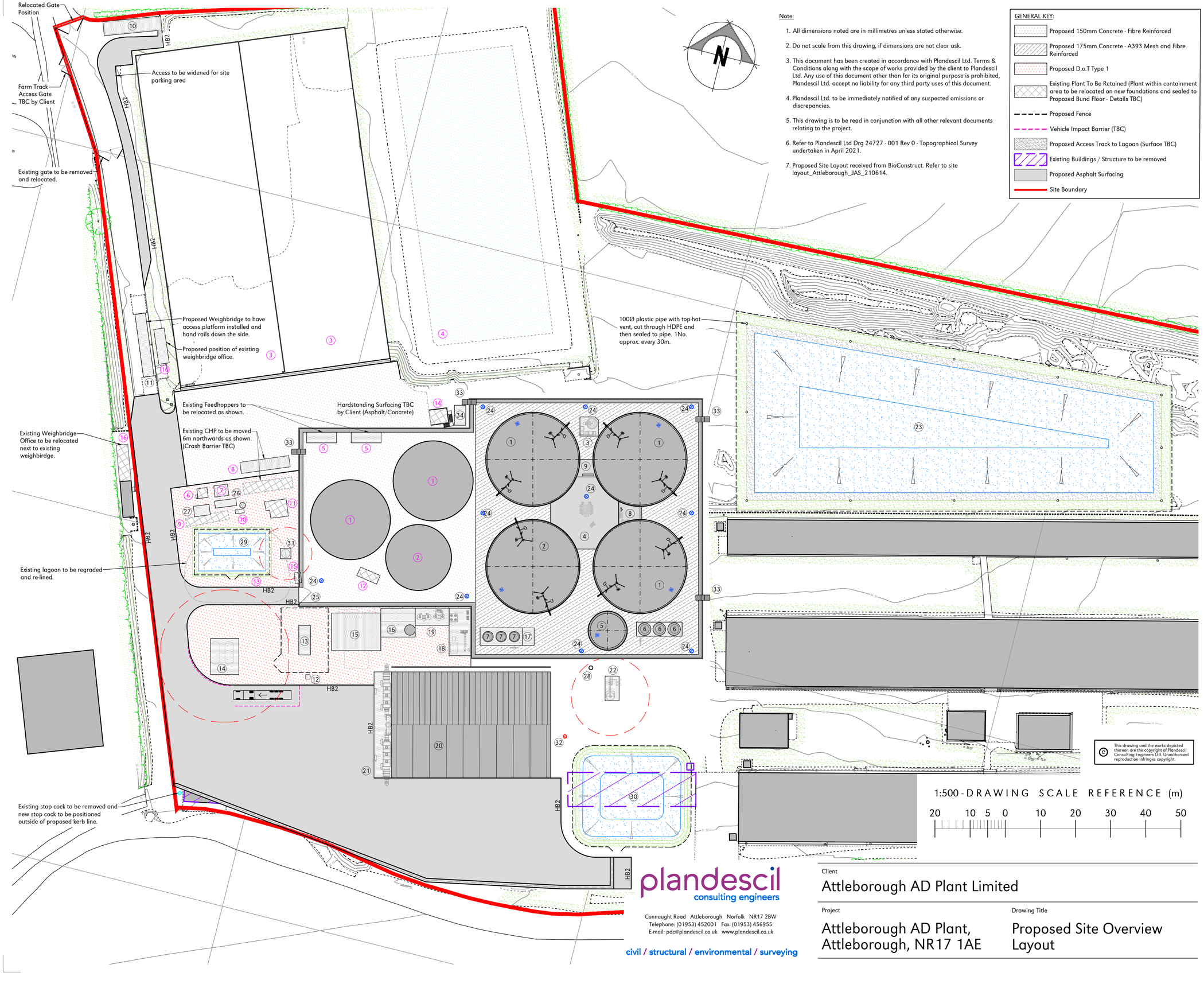
Construction of a biogas plant in Attleborough (GB)

emission point plan

filename:
plant layout_Attleborough_JAS_210805.dwg

project-nr. / plan-nr.:	scale:	plan size:
B202103 / A15	1:250	DIN A1

		date:	name:
designed:		31.05.21	J. Schröder
change:			
nr.	kind of change:	date:	name:
a	emergency generator	30.06.21	J. Schröder



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5. This drawing is to be read in conjunction with all other relevant documents relating to the project.
6. Refer to Plandescil Ltd Drg 24727 - 001 Rev 0 - Topographical Survey undertaken in April 2021.
7. Proposed Site Layout received from BioConstruct. Refer to site layout_Attleborough_JAS_210614.

GENERAL KEY:

- Proposed 150mm Concrete - Fibre Reinforced
- Proposed 175mm Concrete - A393 Mesh and Fibre Reinforced
- Proposed D.o.T Type 1
- Existing Plant To Be Retained (Plant within containment area to be relocated on new foundations and sealed to Proposed Bund Floor - Details TBC)
- Proposed Fence
- Vehicle Impact Barrier (TBC)
- Proposed Access Track to Lagoon (Surface TBC)
- Existing Buildings / Structure to be removed
- Proposed Asphalt Surfacing
- Site Boundary

EXISTING PLANT KEY:

1. Digester (2No.) (23mØ)
2. Fermenter (19mØ)
3. Silage Clamp (2No.) (30m x 95m)
4. Covered Lagoon
5. Feedhopper (2No.) - To Be Repositioned
6. Substation
7. Transformer
8. CHP Engine - To Be Repositioned
9. Storage Container - To Be Repositioned
10. Chiller & Oil Container
11. Technical Container
12. Boiler
13. Dirty Water Holding Lagoon - To Be Regraded/Relined
14. Separator
15. Flare - To Be Removed
16. Welfare Facility / Site Office - To Be Repositioned

PROPOSED PLANT KEY:

1. BioConstruct Fermenter (3No. @ 26.00mØ)
2. BioConstruct Post-Fermenter (26.00mØ)
3. Reception Tank
4. Technical Building
5. Pre-Storage Tank (10.00mØ)
6. Pre-Storage Tank (3No. @ 3.50mØ)
7. Pasteurisation Tank (3No.)
8. Oxygen Generator
9. Switchboard Room
10. Site Office
11. Weighbridge
12. VSAT
13. Grid Entry Unit
14. Propane Tanks
15. Gas Upgrading Unit
16. Boiler, Heating Buffer Tank
17. Switchboard Container
18. Gas Processing Unit
19. Active Carbon Tanks (2No.)
20. Reception Building (30.20m x 45.20m)
21. Odour Control Filter (1No.)
22. Flare - BioConstruct (10.00m Exclusion Zone)
23. Digestate Storage Lagoon (10,000m³ Storage)
24. Containment Sump (8No.) - TBC
25. Bund Gate (1No.)
26. LV Switchboard
27. Emergency Generator
28. Condensate Pit
29. Dirty Water Holding Lagoon (175m³ Storage)
30. Surface Water Attenuation Lagoon (936m³ Storage)
31. Flare - EVE (7.50m Exclusion Zone TBC By Client)
32. Borehole - Position TBC
33. Stair Access (4No.)
34. Leachate Tank (20,000l - Capacity TBC)

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1:500 - DRAWING SCALE REFERENCE (m)

20 10 5 0 10 20 30 40 50

APPROVAL & COMMENT

Rev	Date	Rev By	Chkd	Description
H	22-07-21	JHB	OAJ	Amendments Following Comments
G	23-06-21	JHB	OAJ	Amendments Following Comments
F	16-06-21	JHB	OAJ	Amendments Following Comments
E	11-06-21	JHB	OAJ	Amendments Following Comments
D	03-06-21	JHB	OAJ	Amendments Following Comments
C	30-04-21	JHB	OAJ	Amendments Following Comments
B	20-04-21	JHB	OAJ	Amendments Following Comments
A	13-09-19	JHB	OAJ	Amendments Following Comments
0	09-09-19		OAJ	First Issue

plandescil
consulting engineers
Connaught Road Attleborough Norfolk NR17 2BW
Telephone: (01953) 452001 Fax: (01953) 456955
E-mail: pdc@plandescil.co.uk www.plandescil.co.uk
civil / structural / environmental / surveying

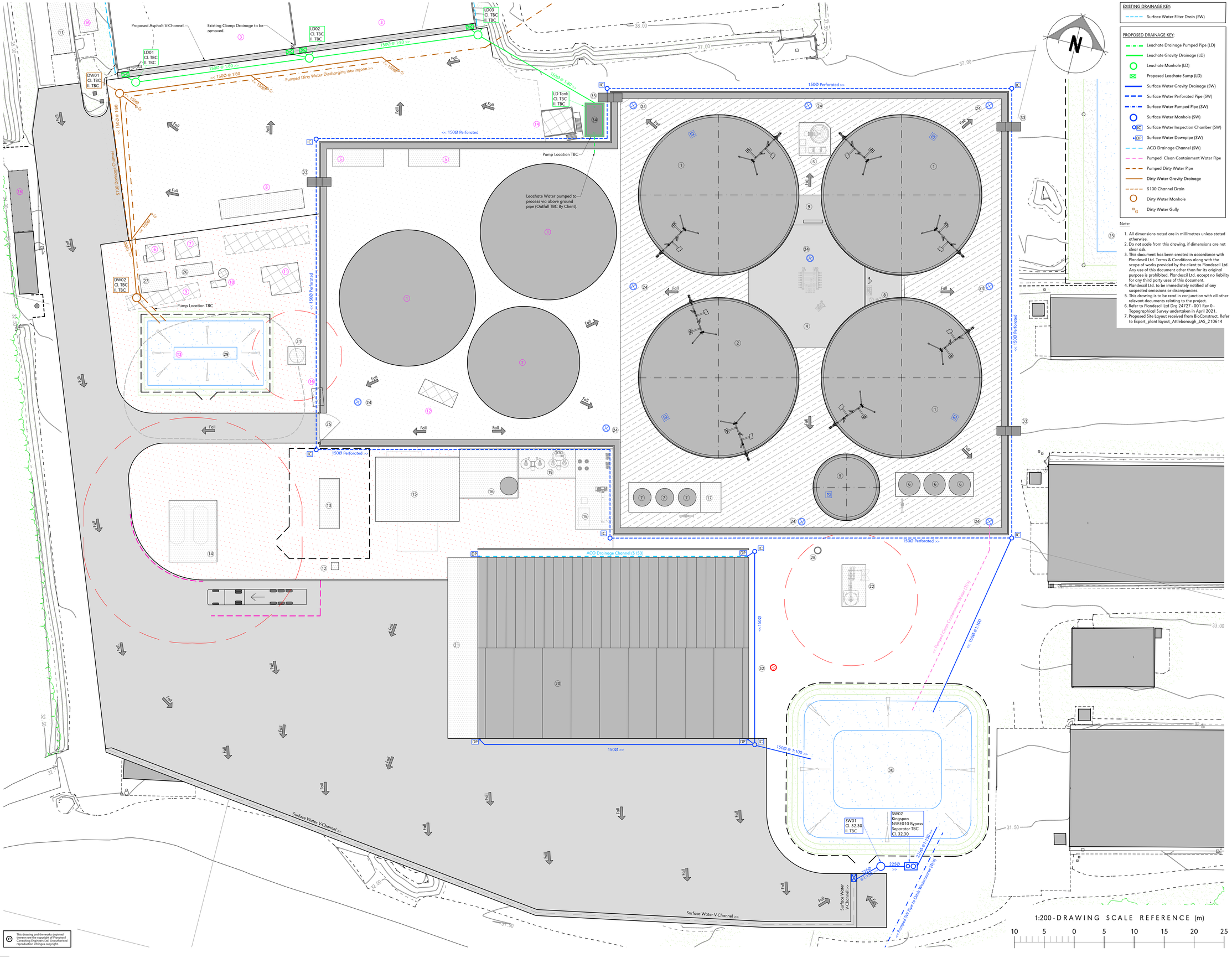
Client: Attleborough AD Plant Limited

Project: Attleborough AD Plant, Attleborough, NR17 1AE

Drawing Title: Proposed Site Overview Layout

Scale: 1:500 (A1) | U.N.O. | Date: September 2019 | Drawn By: JHB

Drawing No. 24727/010 | Rev H



EXISTING DRAINAGE KEY:

- Surface Water Filter Drain (SW)

PROPOSED DRAINAGE KEY:

- Leachate Drainage Pumped Pipe (LD)
- Leachate Gravity Drainage (LD)
- Leachate Manhole (LD)
- Proposed Leachate Sump (LD)
- Surface Water Gravity Drainage (SW)
- Surface Water Perforated Pipe (SW)
- Surface Water Pumped Pipe (SW)
- Surface Water Manhole (SW)
- IC Surface Water Inspection Chamber (SW)
- DP Surface Water Downpipe (SW)
- ACO Drainage Channel (SW)
- Pumped Clean Containment Water Pipe
- Pumped Dirty Water Pipe
- Dirty Water Gravity Drainage
- S100 Channel Drain
- Dirty Water Manhole
- G Dirty Water Gully

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6. Refer to Plandescil Ltd Drg 24727 - 001 Rev 0 - Topographical Survey undertaken in April 2021.
7. Proposed Site Layout received from BioConstruct. Refer to Export_plant layout_Attleborough_JAS_210614

GENERAL KEY:

- Proposed 150mm Concrete - Fibre Reinforced
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15. Gas Upgrading Unit
16. Boiler, Heating Buffer Tank
17. Switchboard Container
18. Gas Processing Unit
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30. Surface Water Attenuation Lagoon (936m³ Storage)
31. Flare - EVE (7.50m Exclusion Zone TBC By Client)
32. Borehole - Position TBC
33. Stair Access (4No.)
34. Leachate Tank (20,000l - Capacity TBC)

APPROVAL & COMMENT

Rev	Date	Rev By	Chkd	Description
C	22-07-21	JHB	OAJ	Updated Following Comments
B	16-03-21	JHB	OAJ	Planning Issue Amendments
A	14-01-20	MJP	OAJ	Client Name Amended
0	10-01-20	-	OAJ	First Issue

plandescil consulting engineers
Connaught Road Attleborough Norfolk NR17 2BW
Telephone: (01953) 452001 Fax: (01953) 456955
E-mail: pdc@plandescil.co.uk www.plandescil.co.uk
civil / structural / environmental / surveying

Client: Attleborough AD Plant Limited

Project: Attleborough AD Plant, Attleborough, Norfolk, NR17 1AE

Drawing Title: Proposed Drainage Layout

1:200 - DRAWING SCALE REFERENCE (m)
10 5 0 5 10 15 20 25

Scale	U.N.O.	Date	Drawn By
1:200 (A0)		January 2020	TOH

Drawing No. 24727/007 Rev C

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Appendix A: Enviro Insight Report (2021)

Groundsure LOCATION INTELLIGENCE

Enviro Insight

S S AGRI POWER, S S AGRI POWER, ELLINGHAM ROAD, ATTLEBOROUGH, NR17 1AE

Order Details

Date: 26/07/2021

Your ref: Attleborough_AD

Our Ref: GS-8073056

Client: Shann Pitts Consulting

Site Details

Location: 603294 295620

Area: 5.16 ha

Authority: Breckland District Council

Summary of findings p. 2

OS MasterMap site plan p.11

Aerial image p. 6

groundsure.com/insightuserguide

Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
12	1.1	Historical industrial land uses	1	4	0	6	-
13	1.2	Historical tanks	0	0	0	3	-
14	1.3	Historical energy features	0	0	0	4	-
14	1.4	Historical petrol stations	0	0	0	0	-
14	1.5	Historical garages	0	0	0	0	-
15	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
16	2.1	Historical industrial land uses	1	5	0	10	-
17	2.2	Historical tanks	0	0	0	4	-
18	2.3	Historical energy features	0	0	0	8	-
18	2.4	Historical petrol stations	0	0	0	0	-
18	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	1	0	-
20	3.3	Historical landfill (LA/mapping records)	0	2	0	0	-
20	3.4	Historical landfill (EA/NRW records)	0	1	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	2	0	2	0	-
22	3.7	Waste exemptions	0	0	0	2	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
23	4.1	Recent industrial land uses	3	0	1	-	-
24	4.2	Current or recent petrol stations	0	0	0	0	-
24	4.3	Electricity cables	0	0	0	0	-
24	4.4	Gas pipelines	0	0	0	0	-
24	4.5	Sites determined as Contaminated Land	0	0	0	0	-

25	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
25	4.7	Regulated explosive sites	0	0	0	0	-
25	4.8	Hazardous substance storage/usage	0	0	0	0	-
25	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
25	**4.10**	**Licensed industrial activities (Part A(1))**	2	0	0	0	-
26	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
26	4.12	Radioactive Substance Authorisations	0	0	0	0	-
26	**4.13**	**Licensed Discharges to controlled waters**	0	0	1	1	-
27	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
27	4.15	Pollutant release to public sewer	0	0	0	0	-
27	4.16	List 1 Dangerous Substances	0	0	0	0	-
27	4.17	List 2 Dangerous Substances	0	0	0	0	-
28	**4.18**	**Pollution Incidents (EA/NRW)**	2	0	1	0	-
28	**4.19**	**Pollution inventory substances**	1	0	0	0	-
29	**4.20**	**Pollution inventory waste transfers**	1	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Geology (basic)					
31	**5.1**	**Superficial geology (625k)**	Identified (within 500m)				
31	**5.2**	**Bedrock geology (625k)**	Identified (within 500m)				

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
32	**6.1**	**Superficial aquifer**	Identified (within 500m)				
34	**6.2**	**Bedrock aquifer**	Identified (within 500m)				
35	**6.3**	**Groundwater vulnerability**	Identified (within 50m)				
36	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
36	6.5	Groundwater vulnerability- local information	None (within 0m)				
37	**6.6**	**Groundwater abstractions**	0	0	1	0	18
41	**6.7**	**Surface water abstractions**	0	0	2	0	5
43	**6.8**	**Potable abstractions**	0	0	0	0	1
44	6.9	Source Protection Zones	0	0	0	0	-

44	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
45	**7.1**	**Water Network (OS MasterMap)**	1	5	17	-	-
47	**7.2**	**Surface water features**	0	4	12	-	-
48	**7.3**	**WFD Surface water body catchments**	1	-	-	-	-
48	**7.4**	**WFD Surface water bodies**	0	0	1	-	-
48	**7.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
50	**8.1**	**Risk of Flooding from Rivers and Sea (RoFRaS)**	Medium (within 50m)				
51	8.2	Historical Flood Events	0	0	0	-	-
51	8.3	Flood Defences	0	0	0	-	-
51	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
51	8.5	Flood Storage Areas	0	0	0	-	-
52	**8.6**	**Flood Zone 2**	Identified (within 50m)				
53	**8.7**	**Flood Zone 3**	Identified (within 50m)				
Page	Section	Surface water flooding					
54	**9.1**	**Surface water flooding**	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
56	**10.1**	**Groundwater flooding**	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
57	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
58	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
58	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
58	11.4	Special Protection Areas (SPA)	0	0	0	0	0
58	11.5	National Nature Reserves (NNR)	0	0	0	0	0
59	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
59	**11.7**	**Designated Ancient Woodland**	0	0	0	0	1
59	11.8	Biosphere Reserves	0	0	0	0	0
59	11.9	Forest Parks	0	0	0	0	0

60	11.10	Marine Conservation Zones	0	0	0	0	0
60	11.11	Green Belt	0	0	0	0	0
60	11.12	Proposed Ramsar sites	0	0	0	0	0
60	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
61	11.15	Nitrate Sensitive Areas	0	0	0	0	0
61	**11.16**	**Nitrate Vulnerable Zones**	1	0	1	0	2
62	**11.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
63	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
64	12.1	World Heritage Sites	0	0	0	-	-
64	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
64	12.3	National Parks	0	0	0	-	-
64	12.4	Listed Buildings	0	0	0	-	-
65	12.5	Conservation Areas	0	0	0	-	-
65	12.6	Scheduled Ancient Monuments	0	0	0	-	-
65	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
66	**13.1**	**Agricultural Land Classification**	Grade 4 (within 250m)				
67	13.2	Open Access Land	0	0	0	-	-
67	13.3	Tree Felling Licences	0	0	0	-	-
67	**13.4**	**Environmental Stewardship Schemes**	1	0	0	-	-
68	13.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
69	14.1	Priority Habitat Inventory	0	0	0	-	-
69	14.2	Habitat Networks	0	0	0	-	-
69	14.3	Open Mosaic Habitat	0	0	0	-	-
69	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 11/04/2020

Site Area: 5.16ha

Recent site history - 2017 aerial photograph

Capture Date: 17/10/2017

Site Area: 5.16ha

Recent site history - 2014 aerial photograph

Capture Date: 19/05/2014

Site Area: 5.16ha

Recent site history - 2006 aerial photograph

Capture Date: 11/09/2006

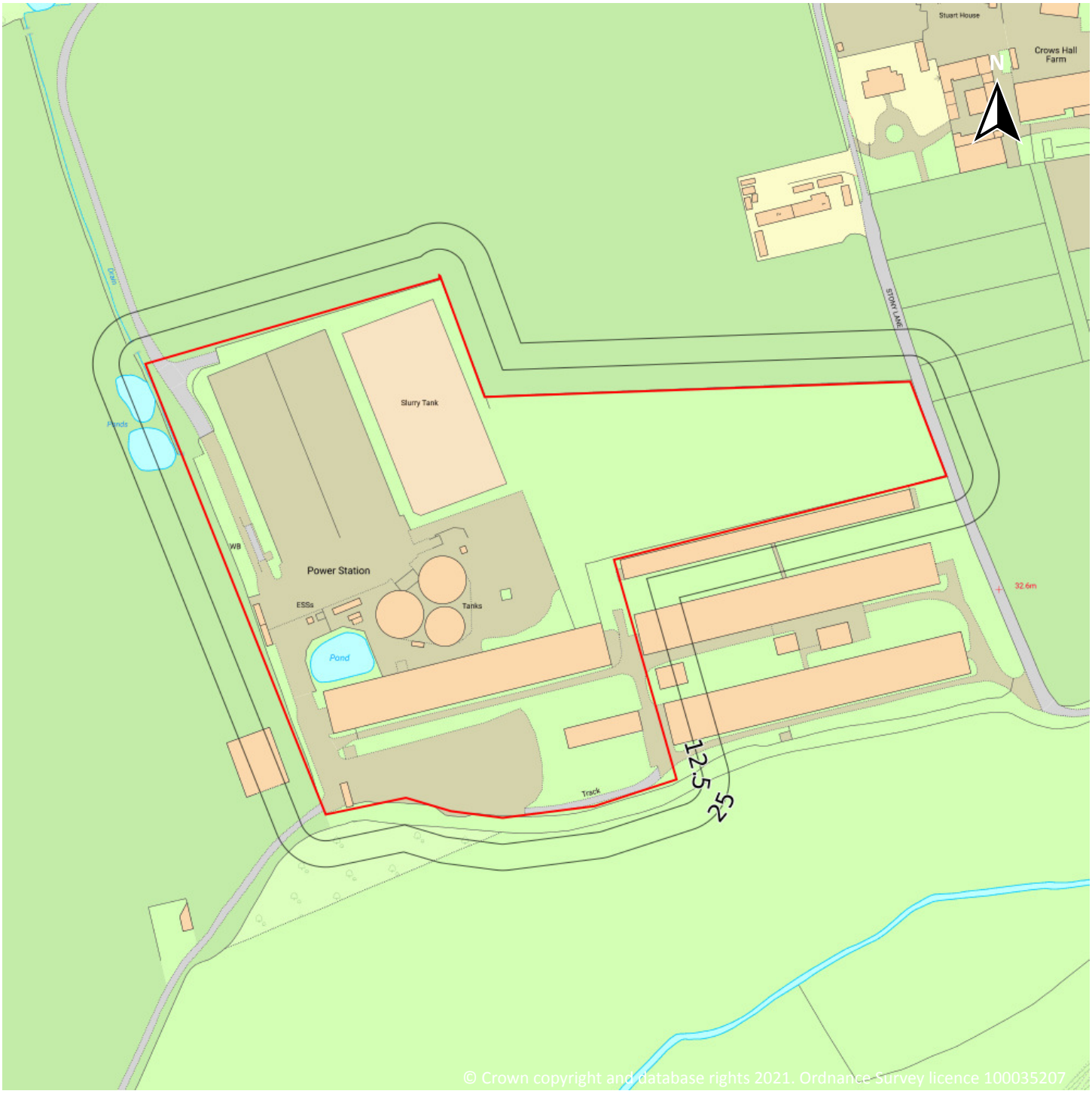
Site Area: 5.16ha

Recent site history - 1999 aerial photograph

Capture Date: 25/06/1999

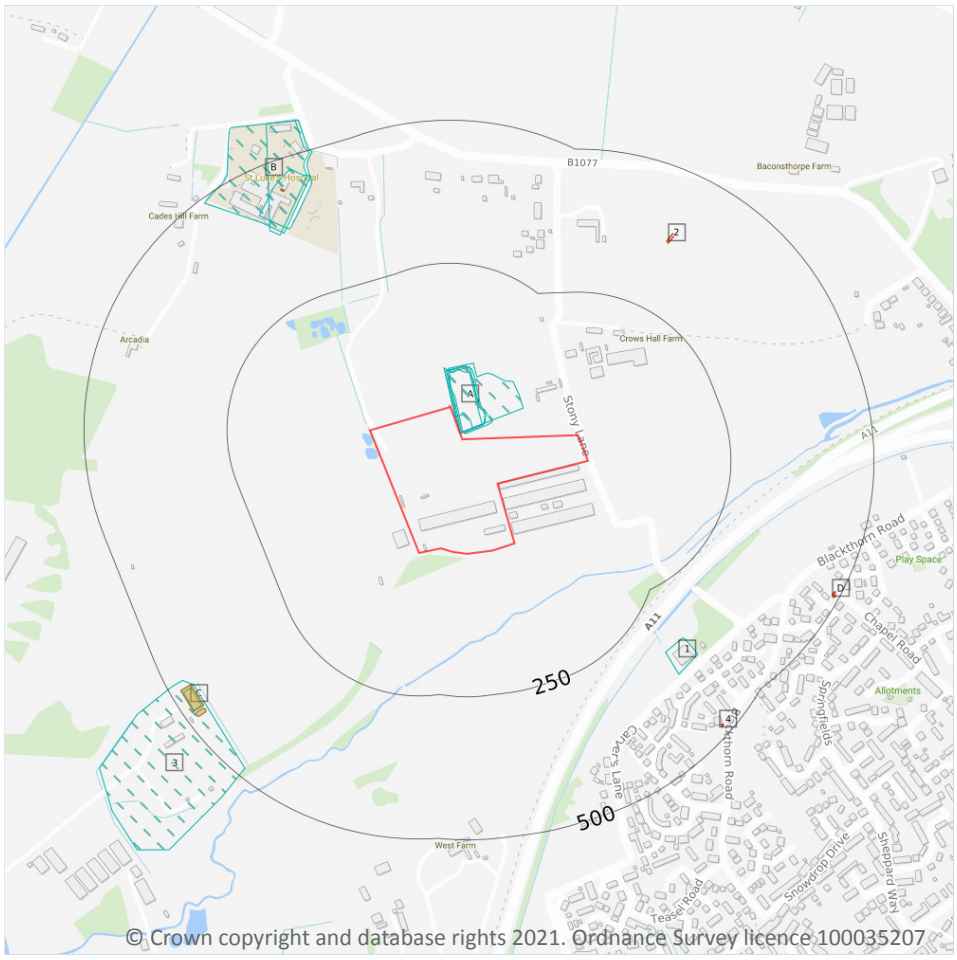
Site Area: 5.16ha

OS MasterMap site plan



Site Area: 5.16ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	11

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Gravel Pit**	**1907**	**2332721**

ID	Location	Land use	Dates present	Group ID
A	0m E	Gravel Pit	1950	2328593
A	2m E	Gravel Pit	1882	2333114
A	3m E	Gravel Pit	1958	2340781
A	5m E	Refuse Heap	1974 - 1988	2334214
1	325m SE	Unspecified Factory	1974 - 1988	2337220
B	376m NW	Hospital	1958	2326363
B	376m NW	Hospital	1950	2345312
B	379m N	Hospital	1974 - 1988	2343740
3	456m SW	Sewage Works	1974 - 1988	2327132
C	464m SW	Unspecified Tanks	1974 - 1988	2343620

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**3**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
B	444m N	Unspecified Tank	1971 - 1982	419301
C	460m SW	Tanks	1971	417233
C	463m SW	Tanks	1971	417236

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	4

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
2	370m NE	Electricity Substation	1999	296062
4	481m SE	Electricity Substation	1996	299696
D	487m SE	Electricity Substation	1996	298439
D	489m SE	Electricity Substation	1994	299866

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

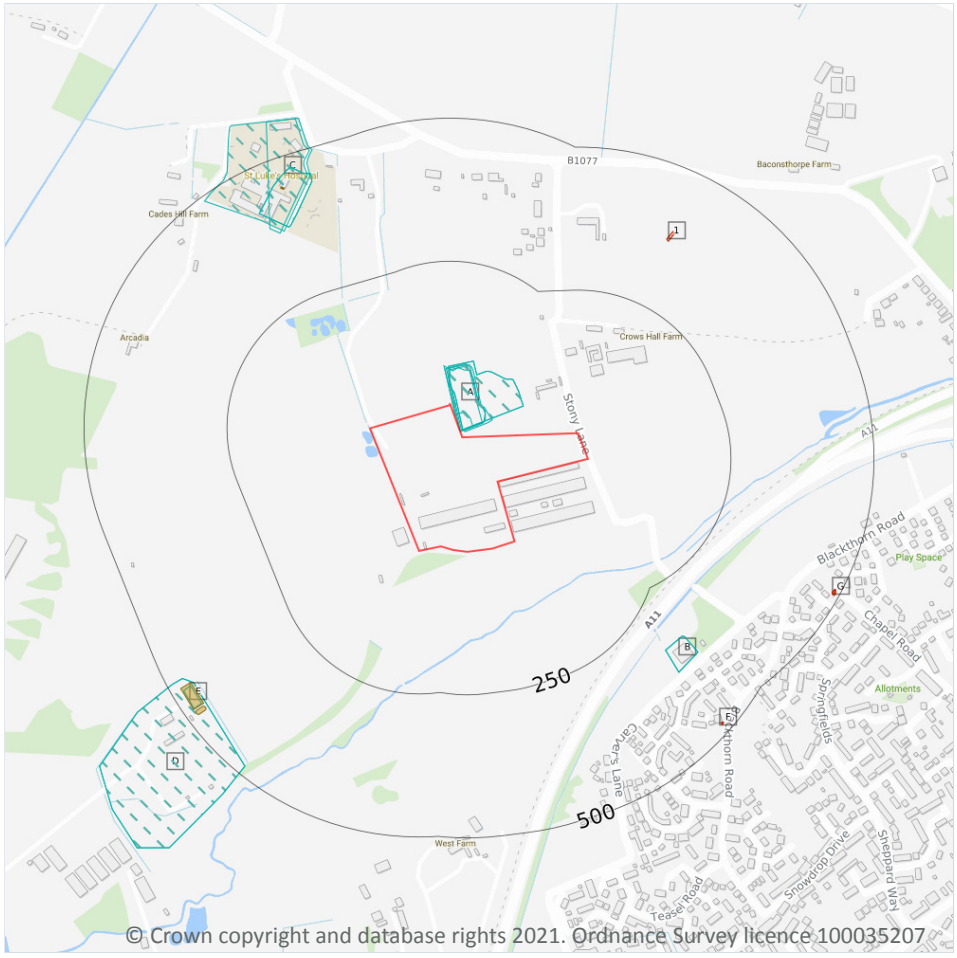
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	16

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 16**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Gravel Pit**	**1907**	**2332721**
A	0m E	Gravel Pit	1950	2328593
A	2m E	Gravel Pit	1882	2333114

ID	Location	Land Use	Date	Group ID
A	3m E	Gravel Pit	1958	2340781
A	5m E	Refuse Heap	1988	2334214
A	5m E	Refuse Heap	1974	2334214
B	325m SE	Unspecified Factory	1988	2337220
B	325m SE	Unspecified Factory	1974	2337220
C	376m NW	Hospital	1950	2345312
C	376m NW	Hospital	1958	2326363
C	379m N	Hospital	1988	2343740
C	379m N	Hospital	1974	2343740
D	456m SW	Sewage Works	1988	2327132
D	456m SW	Sewage Works	1974	2327132
E	464m SW	Unspecified Tanks	1988	2343620
E	464m SW	Unspecified Tanks	1974	2343620

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**4**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 16**

ID	Location	Land Use	Date	Group ID
C	444m N	Unspecified Tank	1971	419301
C	445m N	Unspecified Tank	1982	419301
E	460m SW	Tanks	1971	417233
E	463m SW	Tanks	1971	417236

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	8

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 16**

ID	Location	Land Use	Date	Group ID
1	370m NE	Electricity Substation	1999	296062
F	481m SE	Electricity Substation	1996	299696
F	481m SE	Electricity Substation	1996	299696
G	487m SE	Electricity Substation	1996	298439
G	487m SE	Electricity Substation	1996	298439
G	487m SE	Electricity Substation	1996	298439
G	487m SE	Electricity Substation	1996	298439
G	489m SE	Electricity Substation	1994	299866

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

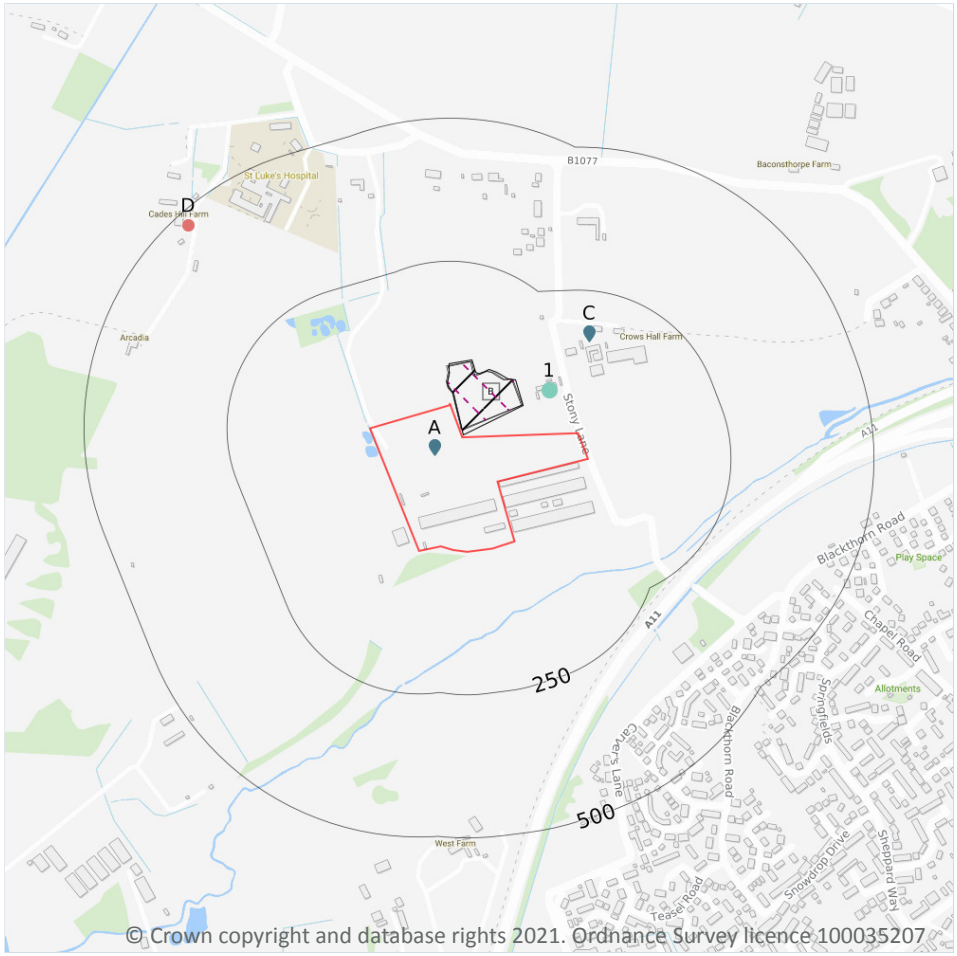
2.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (BGS)

Historical landfill (LA/OS)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	1

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Address	BGS Number	Risk	Waste Type
1	76m N	Crowshall Lane, Attleborough, Norfolk	2963	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**2**

Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Site address	Source	Data type
B	3m E	Refuse Tip	1983 mapping	Polygon
B	5m E	Refuse Tip	1971 mapping	Polygon

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	**1**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Details		
B	3m E	Site Address: Crowshall Lane, Attleborough, Norfolk Licence Holder Address: -	Waste Licence: - Site Reference: WD 700, 2600/5183 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: 31/12/1960

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	4

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Details		
A	**On site**	**Site Name: Crows Hall Farm A D Plant** **Site Address: Crows Hall A D Plant, West Farm, Westcarr Road, Attleborough, Norfolk, NR17 1AD** **Correspondence Address: -**	**Type of Site: On-farm anaerobic digestion 75,000 tpy** **Size: 25000 tonnes** **Environmental Permitting Regulations (Waste) Licence Number: CRO119** **EPR reference: EA/EPR/BB3931RA/V** **Operator: S S Agripower Ltd** **Waste Management licence No: 103328** **Annual Tonnage: 74999**	**Issue Date: 07/11/2012** **Effective Date: -** **Modified: 09/10/2015** **Surrendered Date: -** **Expiry Date: -** **Cancelled Date: -** **Status: To PPC**
A	**On site**	**Site Name: Crows Hall Farm A D Plant** **Site Address: Crows Hall A D Plant, West Farm, Westcarr Road, Attleborough, Norfolk, NR17 1AD** **Correspondence Address: -**	**Type of Site: On-farm anaerobic digestion 75,000 tpy** **Size: >= 25000 tonnes 75000 tonnes** **Environmental Permitting Regulations (Waste) Licence Number: CRO119** **EPR reference: EA/EPR/BB3931RA/V** **Operator: S S Agripower Ltd** **Waste Management licence No: 103328** **Annual Tonnage: 74999**	**Issue Date: 07/11/2012** **Effective Date: -** **Modified: 09/10/2015** **Surrendered Date: -** **Expiry Date: -** **Cancelled Date: -** **Status: To PPC**

ID	Location	Details		
C	174m N	Site Name: Mobile Plant Site Address: Kings Street House, 15, Upper Kings Street, Norwich, NR3 1RB Correspondence Address: -	Type of Site: Mobile Plant Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STU002 EPR reference: EA/EPR/HP3796NC/V003 Operator: Stuart Group Ltd Waste Management licence No: 75209 Annual Tonnage: 5000	Issue Date: 15/03/2007 Effective Date: - Modified: 30/08/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	174m N	Site Name: Mobile Plant Site Address: Kings Street House, 15, Upper Kings Street, Norwich, Norfolk, NR3 1RB Correspondence Address: -	Type of Site: Mobile Plant Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STU002 EPR reference: EA/EPR/HP3796NC/V003 Operator: Stuart Group Limited Waste Management licence No: 75209 Annual Tonnage: 5000	Issue Date: 15/03/2007 Effective Date: - Modified: 30/08/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m **2**

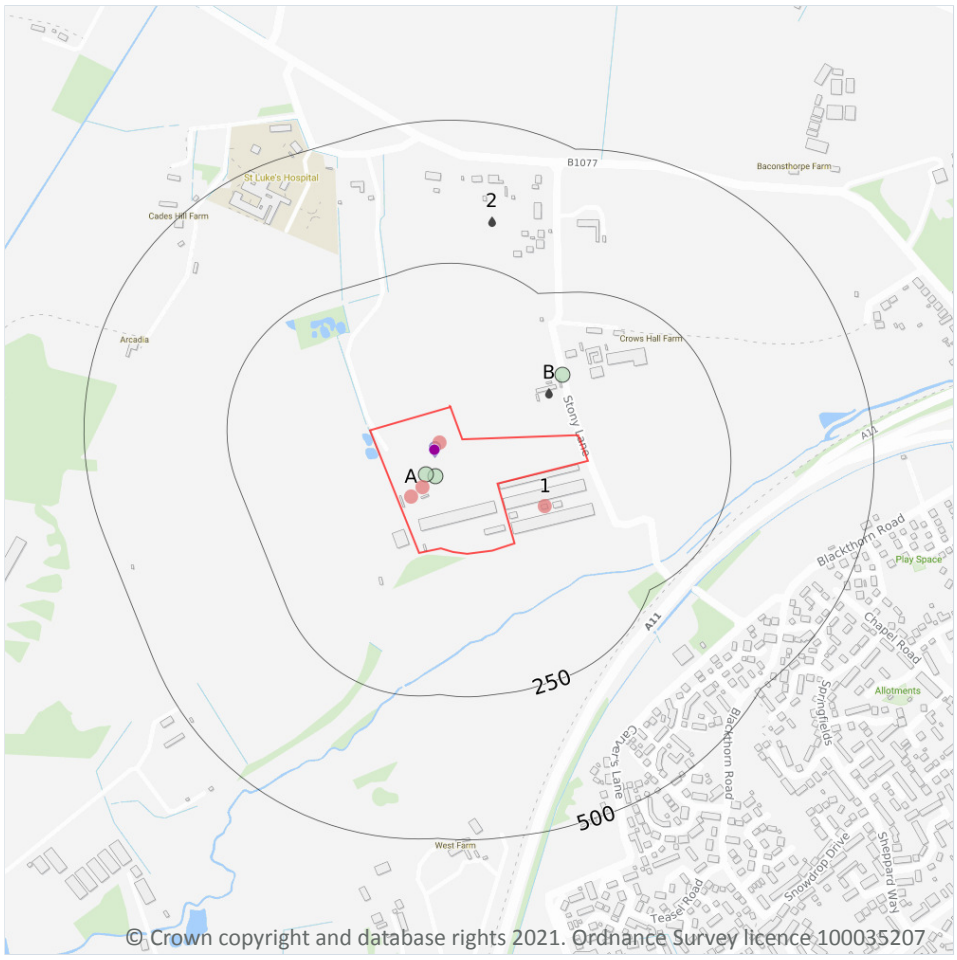
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Site	Reference	Category	Sub-Category	Description
D	476m NW	ELLINGHAM ROAD, ATTLEBOROUGH, NR17 1AE	WEX254928	Using waste exemption	Not on a farm	Use of waste in construction
D	476m NW	ELLINGHAM ROAD, ATTLEBOROUGH, NR17 1AE	WEX113388	Using waste exemption	Not on a farm	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Part A(1) industrial activities
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m	4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 23**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Electricity Sub Stations**	**Norfolk, NR17**	**Electrical Features**	**Infrastructure and Facilities**
A	**On site**	**Slurry Tank**	**Norfolk, NR17**	**Waste Storage, Processing and Disposal**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Power Station**	**Norfolk, NR17**	**Energy Production**	**Industrial Features**
1	59m S	Hockenhull Turkeys Ltd	Crowshall Lane, Attleborough, Norfolk, NR17 1AD	Poultry Farming, Equipment and Supplies	Farming

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	2

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 23**

ID	Location	Details	
A	**On site**	**Operator: SS AGRIPOWER LIMITED** **Installation Name: CROWS HALL AD PLANT EPR/BB3931RA** **Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT** **Permit Number: AP3233AA** **Original Permit Number: AP3233AA**	**EPR Reference: -** **Issue Date: 09/10/2015** **Effective Date: 09/10/2015** **Last date noted as effective: 01/04/2021** **Status: SUPERCEDED**
A	**On site**	**Operator: ATTLEBOROUGH ECO ELECTRIC LIMITED** **Installation Name: CROWS HALL AD PLANT EPR/BB3931RA** **Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT** **Permit Number: KP3209SG** **Original Permit Number: AP3233AA**	**EPR Reference: -** **Issue Date: 04/05/2020** **Effective Date: 04/05/2020** **Last date noted as effective: 01/04/2021** **Status: EFFECTIVE**

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	**0**

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	**0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	**2**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 23**

ID	Location	Address	Details	
B	75m N	CROWS HALL FARM, ATTLEBOROUGH	Effluent Type: AGRICULTURE - UNSPECIFIED Permit Number: PR1NFG0537 Permit Version: 1 Receiving Water: unknown	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: 25/07/1991
2	331m N	CROWSHALL LANE, ATTLEBOROUGH, NORFOLK	Effluent Type: UNSPECIFIED Permit Number: PR1LF2237 Permit Version: 1 Receiving Water: Into Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 04/02/1986 Effective Date: 04/02/1986 Revocation Date: 01/10/1996

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	**0**

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	**0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	3

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 23**

ID	Location	Details	
A	**On site**	**Incident Date: 17/07/2015** **Incident Identification: 1356145** **Pollutant: Atmospheric Pollutants and Effects** **Pollutant Description: Other Odour**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 2 (Significant)**
A	**On site**	**Incident Date: 18/07/2015** **Incident Identification: 1356226** **Pollutant: Other Pollutant** **Pollutant Description: Noise**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 2 (Significant)**
B	105m N	Incident Date: 23/06/2003 Incident Identification: 167941 Pollutant: Organic Chemicals/Products:Oils and Fuel Pollutant Description: Surfactants and Detergents:Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	1

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 23**

ID: A, Location: On site, Permit: BB3931RA
Operator: SS AgriPower Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Crows Hall AD Plant West Farm Westcarr Road Attleborough Norfolk NR17 1AN
Sector Biowaste, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	**1**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 23**

ID: A, Location: On site, Permit: BB3931RA
Operator: SS AgriPower Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Crows Hall AD Plant West Farm Westcarr Road Attleborough Norfolk NR17 1AN
Sector Biowaste, Sub-sector: Biowaste Treatment
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	16.1	Absolute Value	17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1.8	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**TILL-DMTN**	**TILL**	**DIAMICTON**

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

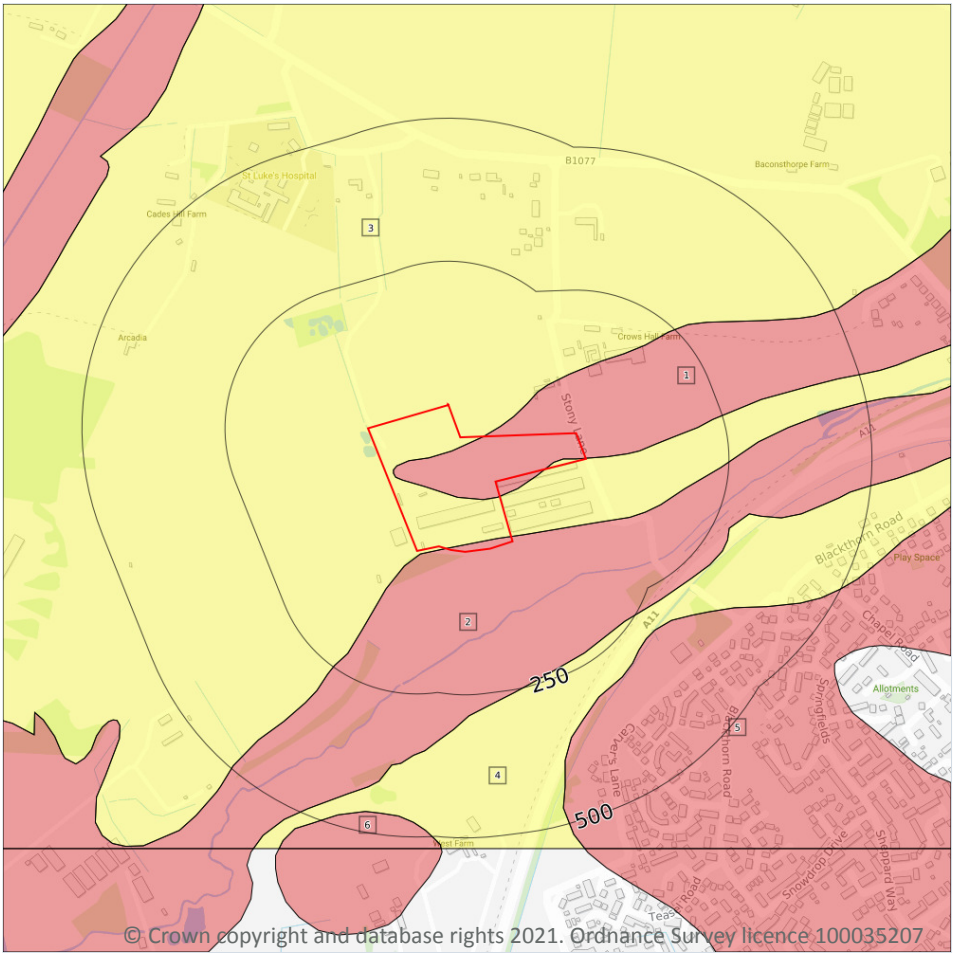
Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**WHCK-CHLK**	**WHITE CHALK SUBGROUP**	**CHALK**

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

6.1 Superficial aquifer

Records within 500m	6

Aquifer status of groundwater held within superficial geology.

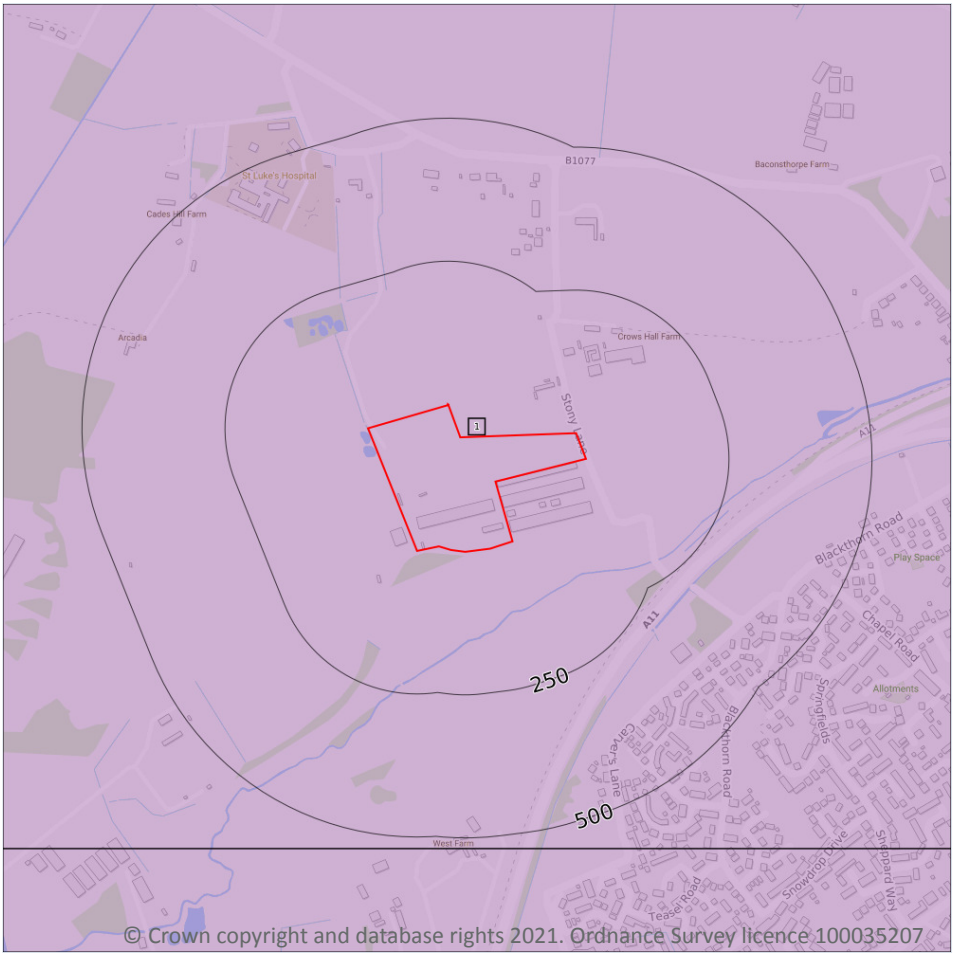
Features are displayed on the Hydrogeology map on **page 32**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
4	231m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	289m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	463m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



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Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

6.2 Bedrock aquifer

Records within 500m	1

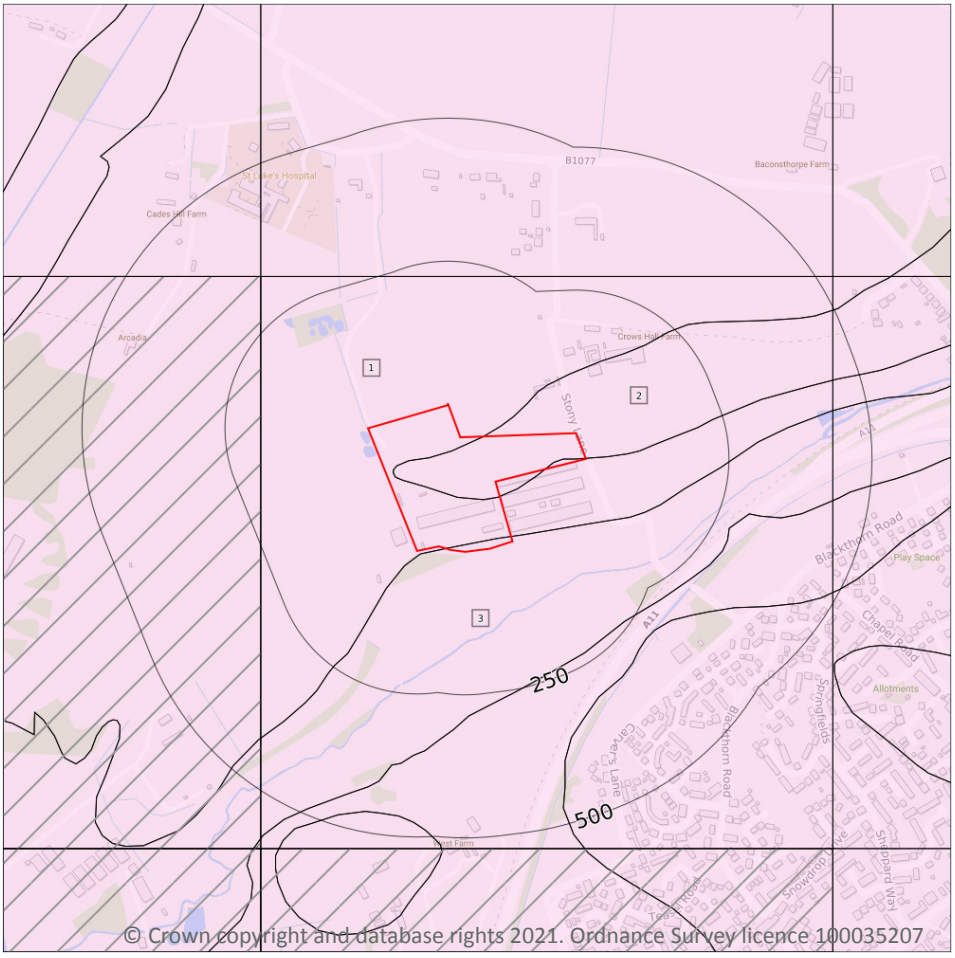
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 34**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	3

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 and 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.

Features are displayed on the Groundwater vulnerability map on **page 35**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

6.4 Groundwater vulnerability- soluble rock risk

Records on site	0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

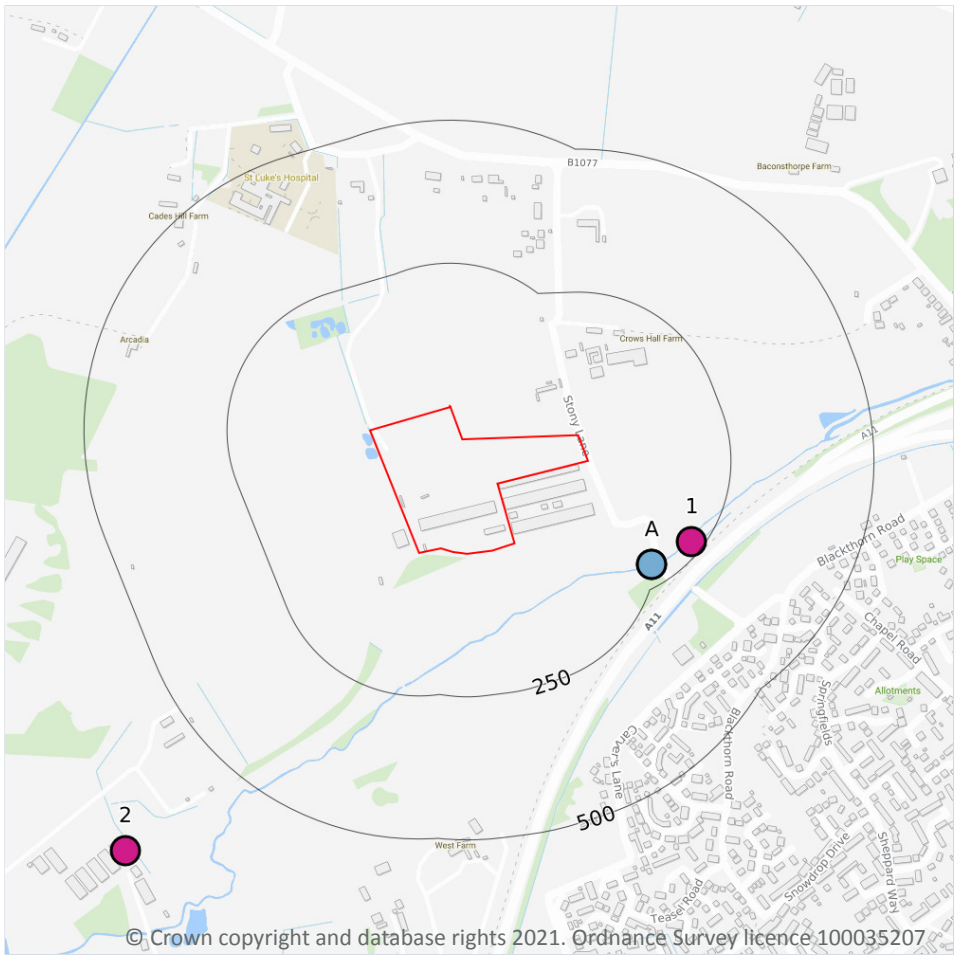
6.5 Groundwater vulnerability- local information

Records on site	0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

6.6 Groundwater abstractions

Records within 2000m	19

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37**

ID	Location	Details	
1	230m SE	Status: Historical Licence No: 6/33/44/*G/0334 Details: Dust suppression Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BALANCING POND NO.1 AT ATTLEBOROUGH Data Type: Point Name: MAY GURNEY LTD Easting: 603750 Northing: 295540	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 13/06/2006 Expiry Date: 31/01/2007 Issue No: 1 Version Start Date: 13/06/2006 Version End Date: -
2	730m SW	Status: Historical Licence No: 6/33/44/*G/0133 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT WALNUT TREE FARM Data Type: Point Name: REYNOLDS Easting: 602760 Northing: 295000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/05/1974 Expiry Date: - Issue No: 100 Version Start Date: 01/05/1974 Version End Date: -
-	784m E	Status: Historical Licence No: 6/33/44/*G/0334 Details: Dust suppression Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BALANCING POND NO 2 AT ATTLEBOROUGH Data Type: Point Name: MAY GURNEY LTD Easting: 604350 Northing: 295750	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 13/06/2006 Expiry Date: 31/01/2007 Issue No: 1 Version Start Date: 13/06/2006 Version End Date: -
-	1360m E	Status: Historical Licence No: 6/33/44/*G/0334 Details: Dust suppression Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BALANCING POND NO 3 AT ATTLEBOROUGH Data Type: Point Name: MAY GURNEY LTD Easting: 604900 Northing: 295960	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 13/06/2006 Expiry Date: 31/01/2007 Issue No: 1 Version Start Date: 13/06/2006 Version End Date: -
-	1651m E	Status: Historical Licence No: 6/33/44/*G/0226 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT ATTLEBOROUGH Data Type: Point Name: SALTER Easting: 605100 Northing: 296300	Annual Volume (m^3): 6000 Max Daily Volume (m^3): 19 Original Application No: - Original Start Date: 01/03/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1992 Version End Date: -

ID	Location	Details	
-	1651m E	Status: Historical Licence No: 6/33/44/*G/0226 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT ATTLEBOROUGH Data Type: Point Name: SALTER Easting: 605100 Northing: 296300	Annual Volume (m^3): 6000 Max Daily Volume (m^3): 19 Original Application No: - Original Start Date: 01/03/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1992 Version End Date: -
-	1653m NE	Status: Historical Licence No: 6/33/44/*G/0087 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL AT ATTLEBOROUGH Data Type: Point Name: ALSTON Easting: 604300 Northing: 297200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1967 Version End Date: -
-	1714m SE	Status: Historical Licence No: 6/33/44/*G/0218 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 AT ATTLEBOROUGH Data Type: Point Name: Banham Poultry Limited Easting: 605100 Northing: 294910	Annual Volume (m^3): 181800 Max Daily Volume (m^3): 768 Original Application No: - Original Start Date: 01/07/1988 Expiry Date: - Issue No: 102 Version Start Date: 25/10/2010 Version End Date: -
-	1719m SE	Status: Historical Licence No: 6/33/44/*G/0218 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 AT ATTLEBOROUGH Data Type: Point Name: Banham Poultry Limited Easting: 605100 Northing: 294900	Annual Volume (m^3): 181800 Max Daily Volume (m^3): 768 Original Application No: - Original Start Date: 01/07/1988 Expiry Date: - Issue No: 102 Version Start Date: 25/10/2010 Version End Date: -
-	1763m SE	Status: Active Licence No: 6/33/44/*G/0218 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 (TM 09/128) AT STATION ROAD Data Type: Point Name: Banham Poultry (2018) Ltd Easting: 605161 Northing: 294923	Annual Volume (m^3): 453,600 Max Daily Volume (m^3): 1,814 Original Application No: - Original Start Date: 01/07/1988 Expiry Date: - Issue No: 105 Version Start Date: 19/11/2018 Version End Date: -

ID	Location	Details	
-	1771m SE	Status: Active Licence No: 6/33/44/*G/0218 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 (TM 09/128) AT STATION ROAD Data Type: Point Name: Banham Poultry (2018) Ltd Easting: 605164 Northing: 294911	Annual Volume (m^3): 453,600 Max Daily Volume (m^3): 1,814 Original Application No: - Original Start Date: 01/07/1988 Expiry Date: - Issue No: 105 Version Start Date: 19/11/2018 Version End Date: -
-	1898m S	Status: Historical Licence No: 6/33/44/*G/0036 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: CRACKNELL Easting: 604160 Northing: 293780	Annual Volume (m^3): 103790 Max Daily Volume (m^3): 2412.7 Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/07/2004 Version End Date: -
-	1898m S	Status: Historical Licence No: 6/33/44/*G/0036 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: CRACKNELL Easting: 604160 Northing: 293780	Annual Volume (m^3): 103790 Max Daily Volume (m^3): 2412.7 Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/07/2004 Version End Date: -
-	1898m S	Status: Historical Licence No: 6/33/44/*G/0335 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: CRACKNELL Easting: 604160 Northing: 293780	Annual Volume (m^3): 68858 Max Daily Volume (m^3): 1870 Original Application No: - Original Start Date: 29/06/2006 Expiry Date: 30/09/2008 Issue No: 1 Version Start Date: 29/06/2006 Version End Date: -
-	1898m S	Status: Historical Licence No: 6/33/44/*G/0346 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: CRACKNELL Easting: 604160 Northing: 293780	Annual Volume (m^3): 68858 Max Daily Volume (m^3): 1870 Original Application No: - Original Start Date: 25/06/2008 Expiry Date: 30/09/2010 Issue No: 1 Version Start Date: 25/06/2008 Version End Date: -

ID	Location	Details	
-	1898m S	Status: Historical Licence No: AN/033/0044/017 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: Leys Farm Limited Easting: 604160 Northing: 293780	Annual Volume (m^3): 61972 Max Daily Volume (m^3): 1870 Original Application No: - Original Start Date: 15/06/2011 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 29/11/2013 Version End Date: -
-	1967m SE	Status: Historical Licence No: AN/033/0044/017 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: Leys Farm Limited Easting: 604226 Northing: 293733	Annual Volume (m^3): 61972 Max Daily Volume (m^3): 1870 Original Application No: - Original Start Date: 15/06/2011 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 29/11/2013 Version End Date: -
-	1967m SE	Status: Historical Licence No: AN/033/0044/017/R01 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: Leys Farm Limited Easting: 604226 Northing: 293733	Annual Volume (m^3): 61972 Max Daily Volume (m^3): 1870 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1967m SE	Status: Active Licence No: AN/033/0044/017/R02 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT POPLAR FARM Data Type: Point Name: Leys Farm Limited Easting: 604226 Northing: 293733	Annual Volume (m^3): 50,000 Max Daily Volume (m^3): 1,870 Original Application No: - Original Start Date: 21/06/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 21/06/2018 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

6.7 Surface water abstractions

Records within 2000m	**7**

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37**

ID	Location	Details	
A	212m SE	Status: Historical Licence No: 6/33/44/*S/0333 Details: Dust suppression Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: ATTLEBOROUGH STREAM Data Type: Point Name: MAY GURNEY LTD Easting: 603680 Northing: 295500	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 24/05/2006 Expiry Date: 31/01/2007 Issue No: 1 Version Start Date: 24/05/2006 Version End Date: -
A	212m SE	Status: Historical Licence No: 6/33/44/*S/0340 Details: Pollution Remediation Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: ATTLEBOROUGH STREAM Data Type: Point Name: MAY GURNEY LTD Easting: 603680 Northing: 295500	Annual Volume (m^3): 13000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/02/2007 Expiry Date: 31/07/2007 Issue No: 1 Version Start Date: 01/02/2007 Version End Date: -
-	754m E	Status: Historical Licence No: 6/33/44/*S/0333 Details: Dust suppression Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: ATTLEBOROUGH STREAM Data Type: Point Name: MAY GURNEY LTD Easting: 604310 Northing: 295820	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 24/05/2006 Expiry Date: 31/01/2007 Issue No: 1 Version Start Date: 24/05/2006 Version End Date: -
-	1040m E	Status: Historical Licence No: 6/33/44/*S/0333 Details: Dust suppression Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: ATTLEBOROUGH STREAM Data Type: Point Name: MAY GURNEY LTD Easting: 604590 Northing: 295880	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 24/05/2006 Expiry Date: 31/01/2007 Issue No: 1 Version Start Date: 24/05/2006 Version End Date: -
-	1152m E	Status: Historical Licence No: 6/33/44/*S/0340 Details: Pollution Remediation Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: ATTLEBOROUGH STREAM Data Type: Point Name: MAY GURNEY LTD Easting: 604700 Northing: 295900	Annual Volume (m^3): 13000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/02/2007 Expiry Date: 31/07/2007 Issue No: 1 Version Start Date: 01/02/2007 Version End Date: -

ID	Location	Details	
-	1774m SW	Status: Historical Licence No: 6/33/44/*S/0051 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER THET ABSTRACTION POINT 1 Data Type: Point Name: P F SOUTHGATE LTD Easting: 601700 Northing: 294700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1972 Version End Date: -
-	1933m E	Status: Historical Licence No: 6/33/44/*S/0340 Details: Pollution Remediation Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: ATTLEBOROUGH STREAM Data Type: Point Name: MAY GURNEY LTD Easting: 605400 Northing: 296300	Annual Volume (m^3): 13000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/02/2007 Expiry Date: 31/07/2007 Issue No: 1 Version Start Date: 01/02/2007 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

6.8 Potable abstractions

Records within 2000m	**1**

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37**

ID	Location	Details	
-	1651m E	Status: Historical Licence No: 6/33/44/*G/0226 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT ATTLEBOROUGH Data Type: Point Name: SALTER Easting: 605100 Northing: 296300	Annual Volume (m^3): 6000 Max Daily Volume (m^3): 19 Original Application No: - Original Start Date: 01/03/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1992 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

6.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

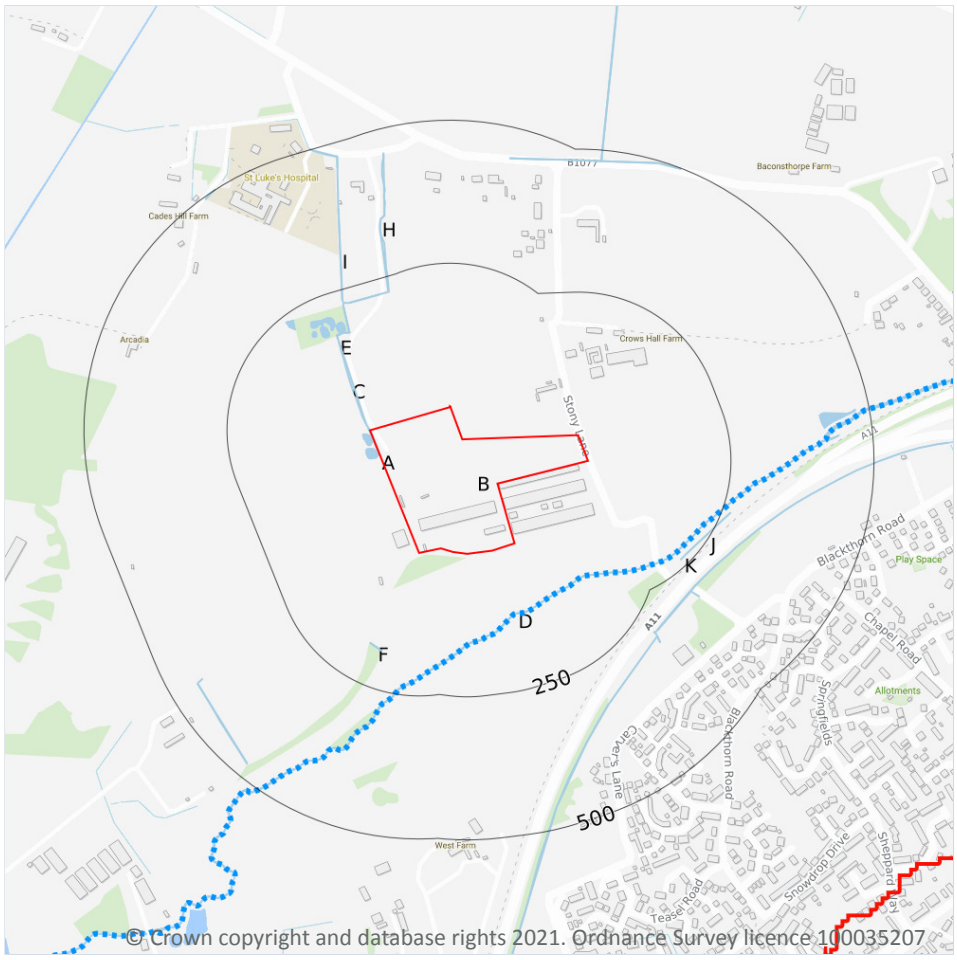
6.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

7 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	23

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	2m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	6m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	12m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	112m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	166m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	169m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	173m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	175m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	178m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	222m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	223m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
E	223m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	223m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	224m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	226m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	227m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	232m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	**16**

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 45**

This data is sourced from the Ordnance Survey.

7.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive 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 smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
B	**On site**	**River WB catchment**	**Thet (US Swangey Fen)**	**GB105033047830**	**Little Ouse and Thet**	**Cam and Ely Ouse**

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	112m SE	River	Thet (US Swangey Fen)	GB105033047830	Poor	Good	Poor	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 WFD Groundwater bodies

Records on site	1

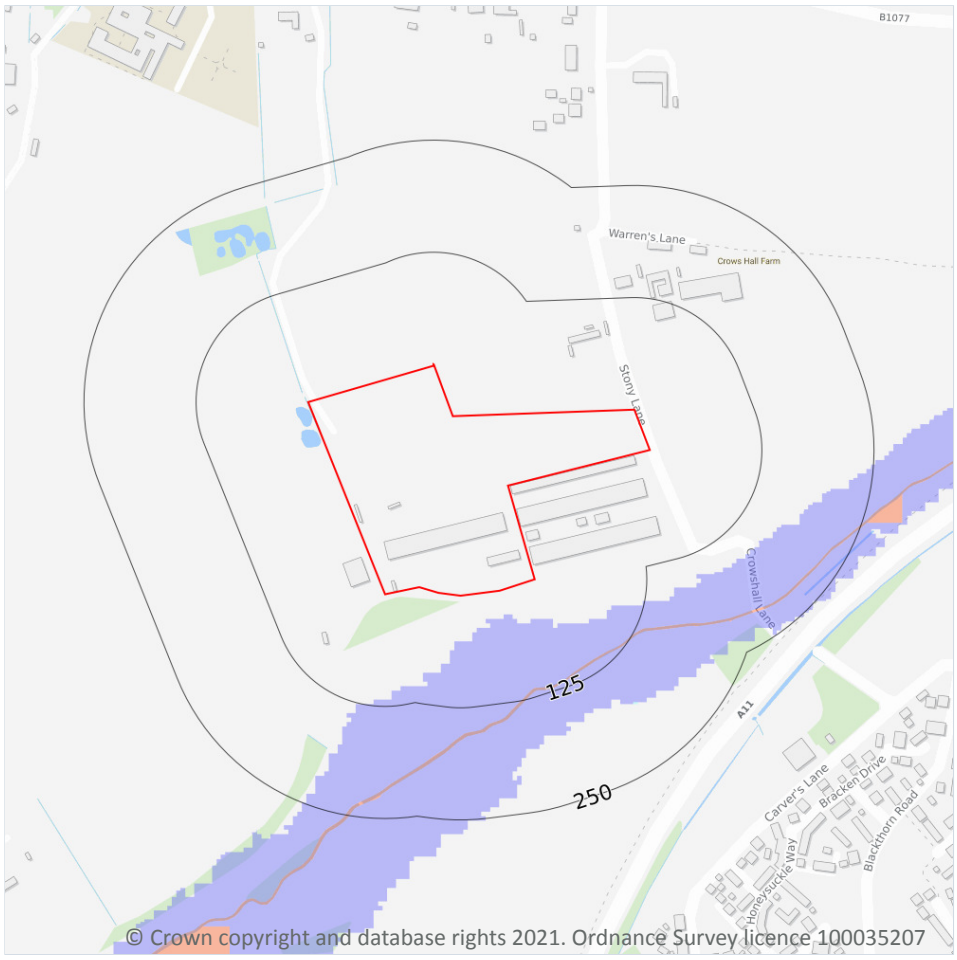
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
B	**On site**	**Cam and Ely Ouse Chalk**	**GB40501G400500**	**Poor**	**Poor**	**Poor**	**2015**

This data is sourced from the Environment Agency and Natural Resources Wales.

8 River and coastal flooding



Site Outline

Search buffers in metres (m)

Environment Agency river and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

8.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	1

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 50**

Distance	RoFRaS flood risk
On site	**N/A**
0 - 50m	Medium

This data is sourced from the Environment Agency and Natural Resources Wales.

8.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

8.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

8.4 Areas Benefiting from Flood Defences

Records within 250m	0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

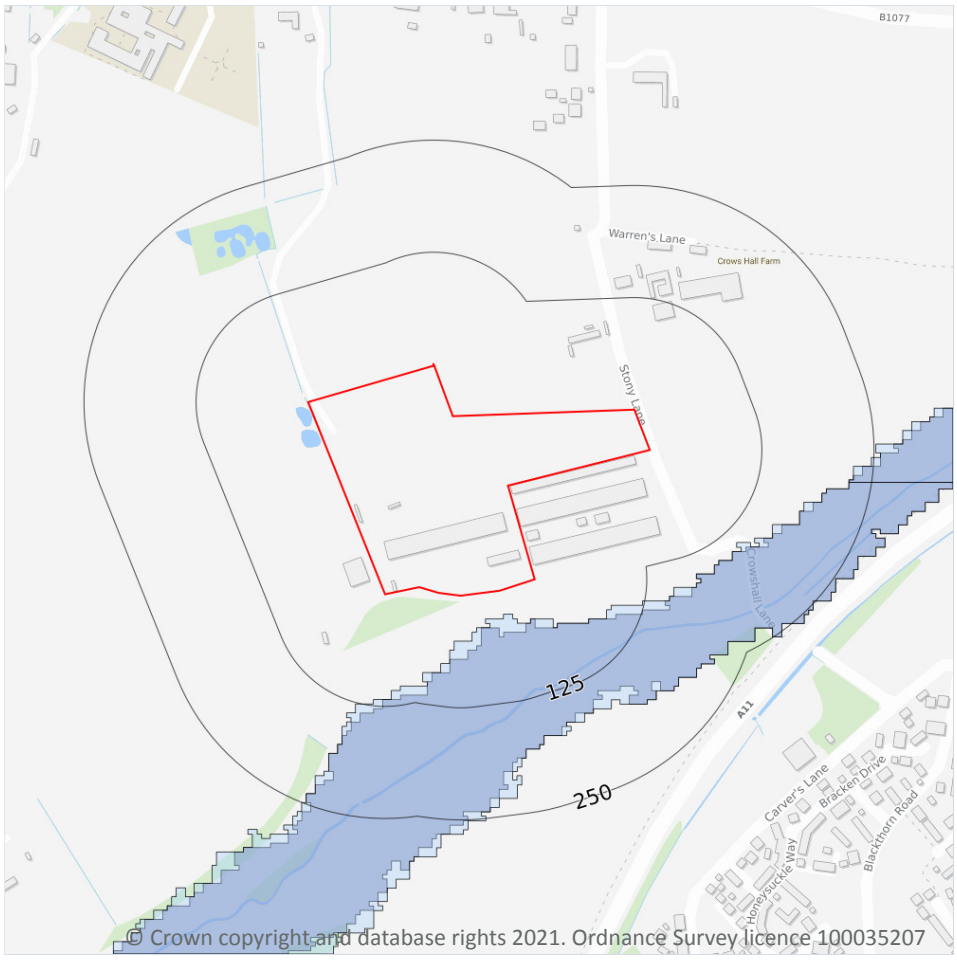
8.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

8.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 50**

Location	Type
27m S	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.

8.7 Flood Zone 3

Records within 50m	1

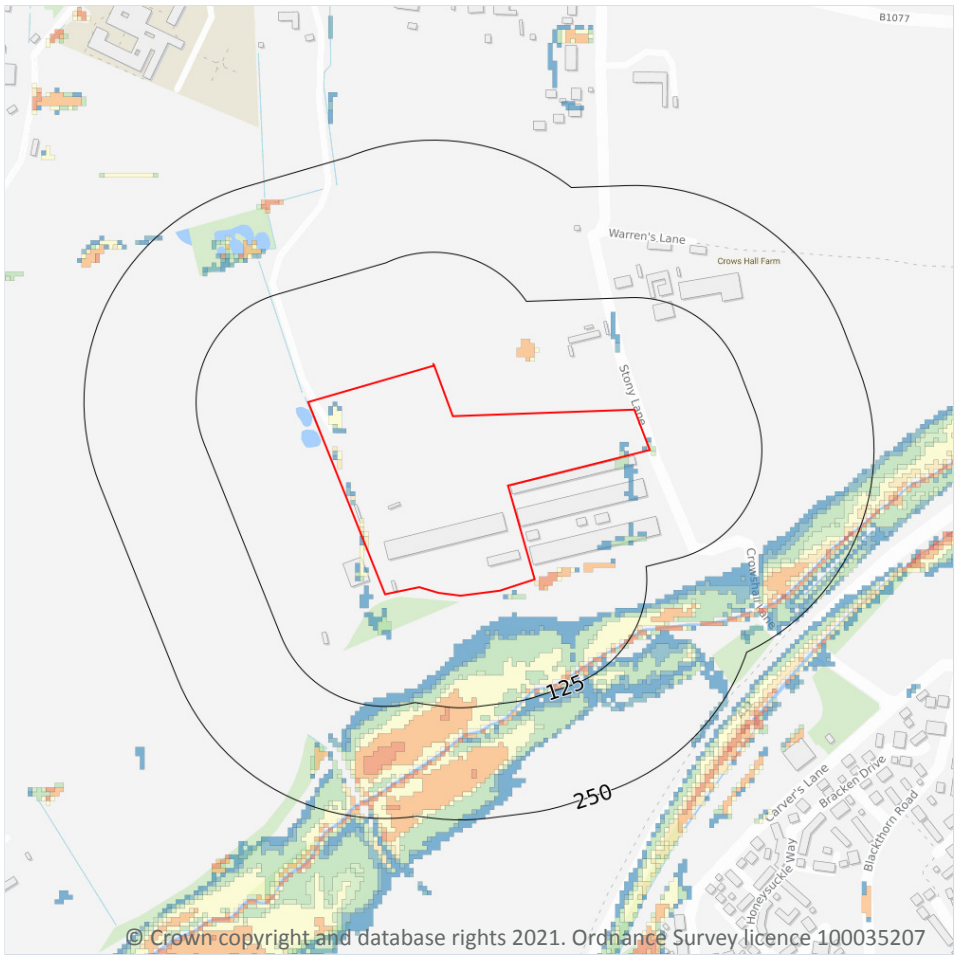
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 50**

Location	Type
39m S	Zone 3 - (Fluvial Models)

This data is sourced from the Environment Agency and Natural Resources Wales.

9 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

9.1 Surface water flooding

Highest risk on site	**1 in 100 year, 0.3m - 1.0m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 54**

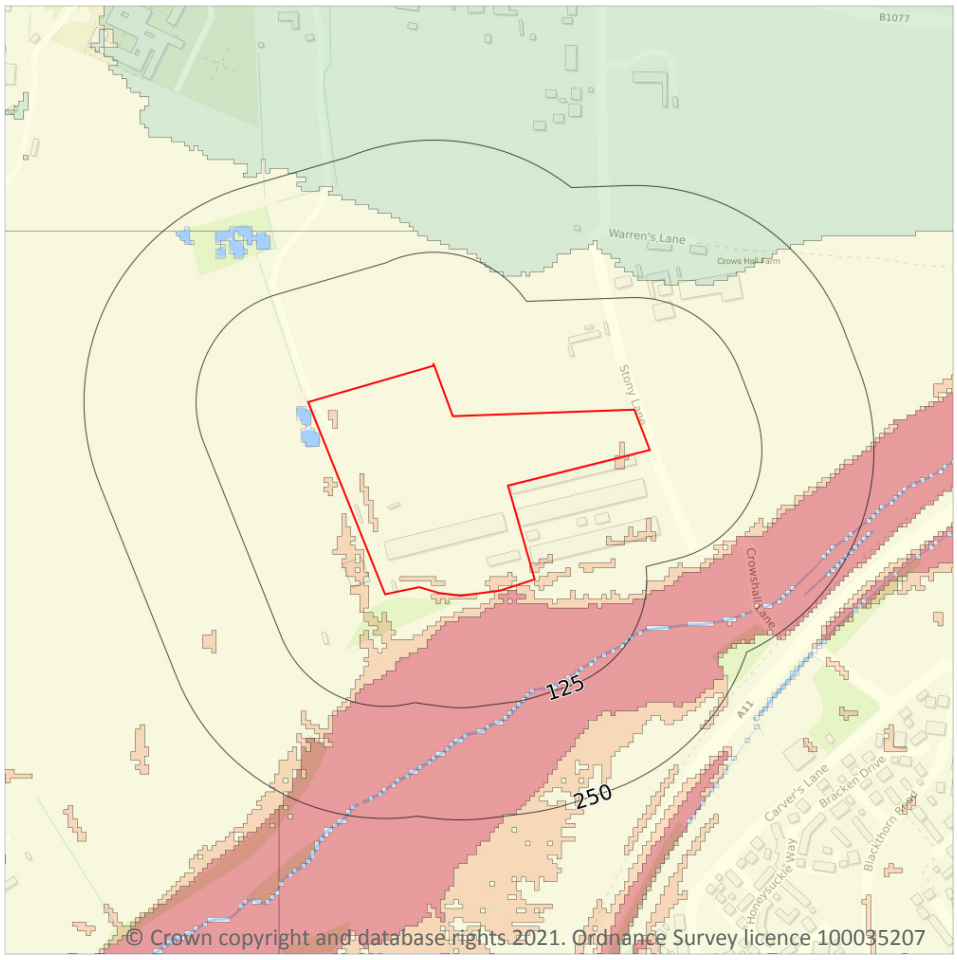
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

10 Groundwater flooding



Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

10.1 Groundwater flooding

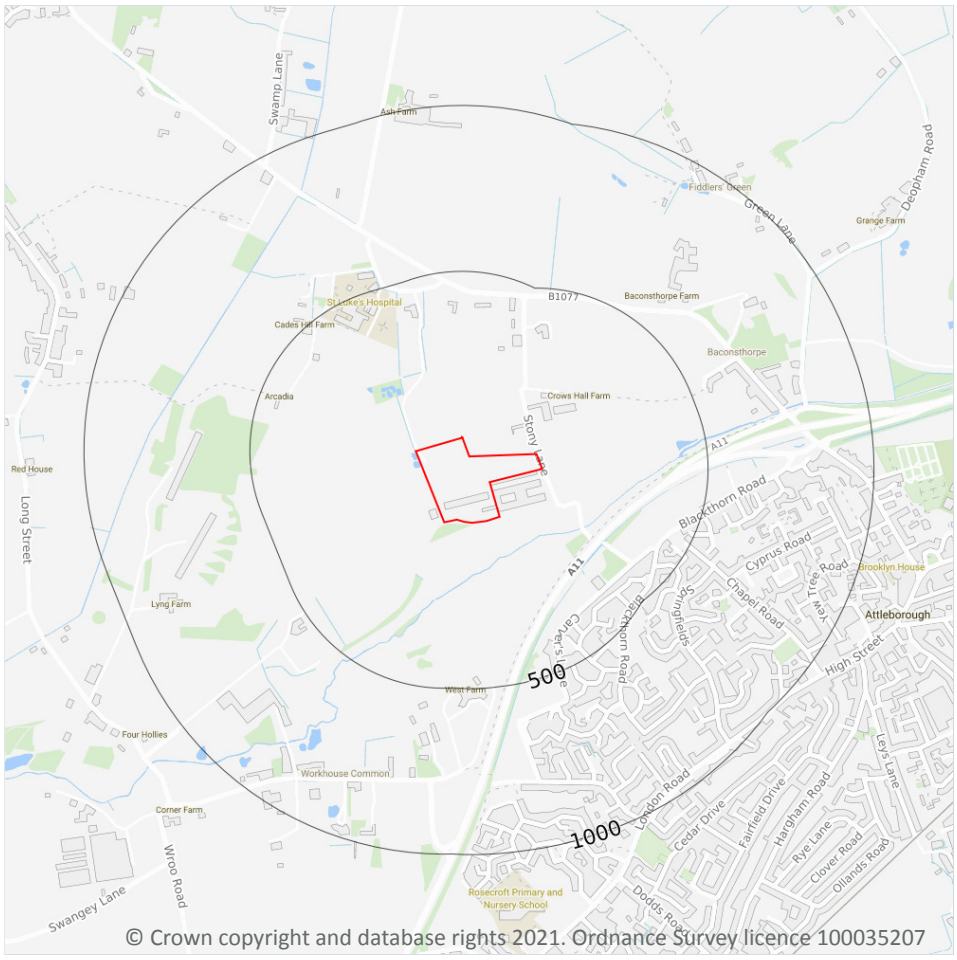
Highest risk on site	**Moderate-High**
Highest risk within 50m	**High**

Groundwater flooding is caused by unusually high groundwater levels. It occurs 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, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 56**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



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Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.7 Designated Ancient Woodland

Records within 2000m	1

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 57**

ID	Location	Name	Woodland Type
-	1582m N	Attleborough Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

11.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

11.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

11.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

11.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or ‘classified’) under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

11.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

11.16 Nitrate Vulnerable Zones

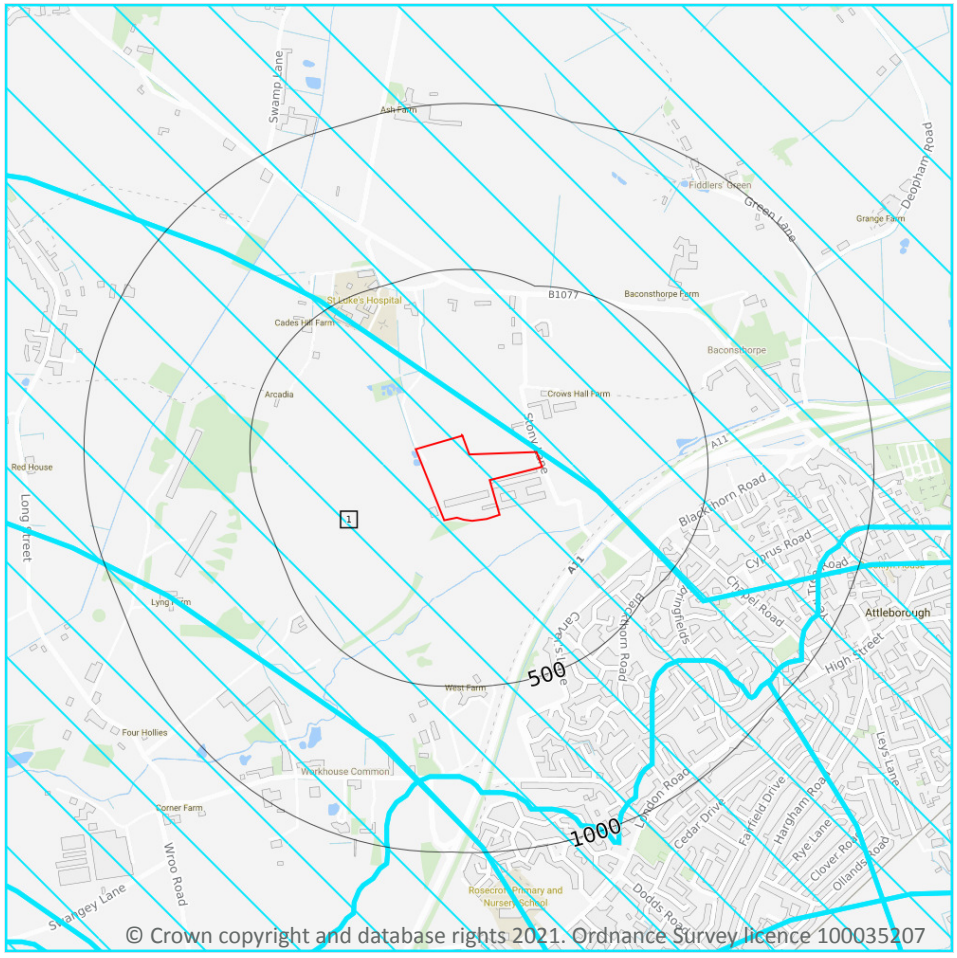
Records within 2000m	4

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**Ely Ouse and Cut-off channel NVZ**	**Surface Water**	**S390**	**Existing**
206m NW	Ely Ouse and Cut-off channel NVZ	Surface Water	S390	Existing
524m SE	Ely Ouse and Cut-off channel NVZ	Surface Water	S390	Existing
599m NE	Ely Ouse and Cut-off channel NVZ	Surface Water	S390	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

11.17 SSSI Impact Risk Zones

Records on site	1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 62**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.** **Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t)** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion**

This data is sourced from Natural England.

11.18 SSSI Units

Records within 2000m	**0**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

12 Visual and cultural designations

12.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

12.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

12.4 Listed Buildings

Records within 250m	0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

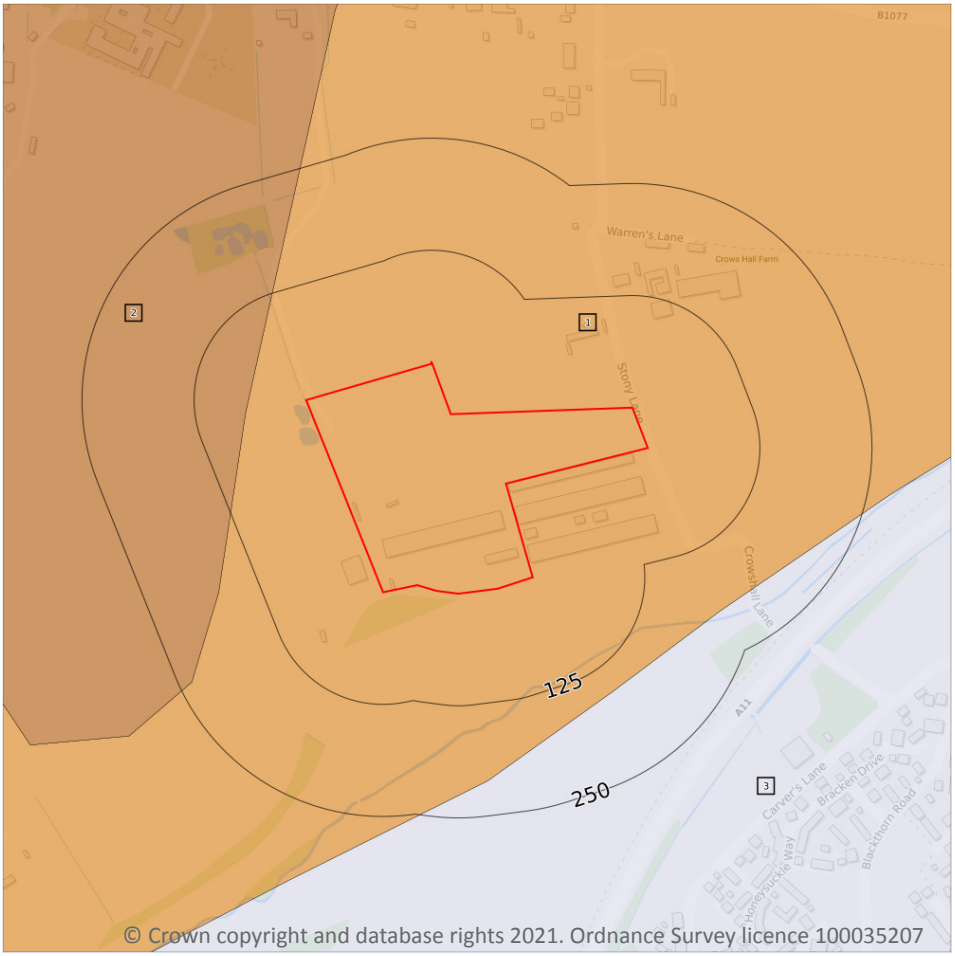
12.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

13 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

13.1 Agricultural Land Classification

Records within 250m	3

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 66**

ID	Location	Classification	Description
1	On site	Grade 3	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**

ID	Location	Classification	Description
2	63m W	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
3	156m SE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

13.2 Open Access Land

Records within 250m	0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

13.3 Tree Felling Licences

Records within 250m	0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

13.4 Environmental Stewardship Schemes

Records within 250m	1

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
On site	**AG00479811**	**Entry Level Stewardship**	**01/07/2013**	**30/06/2018**

This data is sourced from Natural England.

13.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

14 Habitat designations

14.1 Priority Habitat Inventory

Records within 250m	0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

14.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

14.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

14.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-jan-2020/.

Appendix B: Ground Investigation Report (2019)

See separate document

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Appendix C: Phase II Land Contamination Assessment (May 2020)

See separate document

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Appendix D: Detailed Quantitative Controlled Water Risk Assessment (October 2020)

See separate document

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Appendix E: Site Walkover Photographs (24th March 2021)

Photograph 1: Existing dirty water lagoon and flare. Looking south.

© Earthcare Technical Ltd.

Photograph 2: Access track extending to southern site boundary

© Earthcare Technical Ltd.

Photograph 3: Silage clamp

© Earthcare Technical Ltd.

Photograph 4: Existing silage clamp drains

© Earthcare Technical Ltd.

Photograph 5: Apron looking towards existing digestate separator

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Photograph 6: Existing covered digestate storage lagoon with straw stored in the background. Maintenance and repair of the cover is being undertaken.

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Photograph 7: Existing covered digestate storage lagoon, cover currently being repaired. Looking towards area for new digesters and turkey sheds near to the site.

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Photograph 8: Existing apron, feeders, CHP and digesters from existing lagoon bank

© Earthcare Technical Ltd.

Photograph 9: Digestate off-take pipework to be replaced.

© Earthcare Technical Ltd.

Photograph 10: Existing digestate separator, buffer tank and fibre concrete storage bay

© Earthcare Technical Ltd.

Photograph 11: Looking west; area for new Waste-AD Plant

© Earthcare Technical Ltd.

Photograph 12: Existing digestate off-take point

© Earthcare Technical Ltd.

Photograph 13: Area for new Waste-AD plant

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Photograph 14: Existing digesters with concrete surround, gantry and pressure relief valve

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Photograph 15: Ditch adjacent to access track; looking north 13 metres from site boundary.

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Photograph 16: Ditch adjacent to southern site boundary and surface water further south of the woodland/hedge.

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Appendix F: Google Earth Images (2005, 2017 & 2019)

Figure 1 Google Earth Image of the site Captured 01/01/2005

Figure 2 Google Earth Image of the site capture 24/09/2017

Figure 3 Google Earth Image of the site captured 25/07/2019