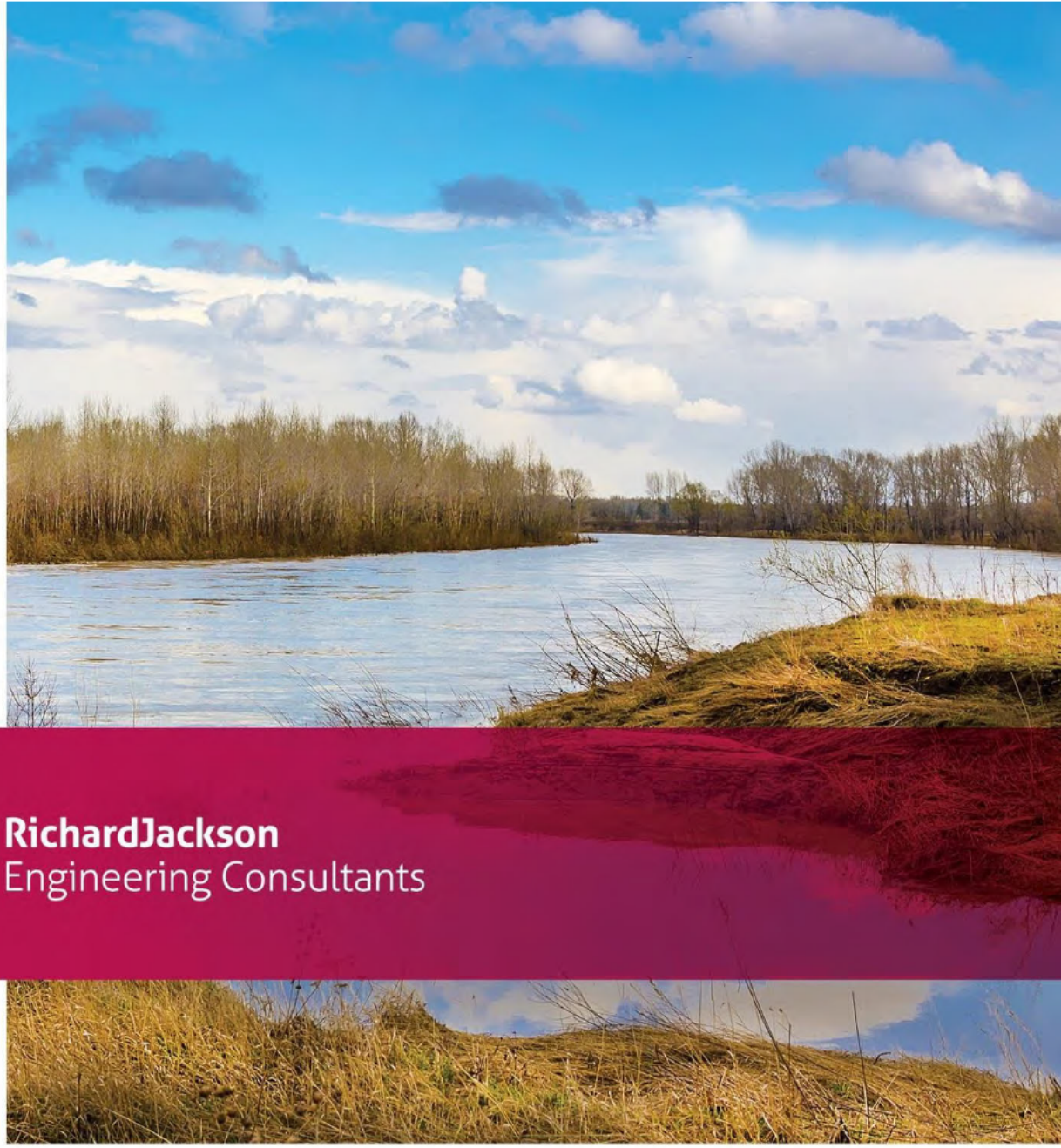

RichardJackson
Engineering Consultants

PHASE ONE DESK STUDY REPORT

Land off Henham Road, Elsenham, Essex, CM22 6DN

Countryside Properties (UK) Ltd

March 2021

Project no: 61207

RichardJackson
Engineering Consultants

Document Review Sheet: -

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Revision Status

Issue	Date	Description	Prepared	Checked	Approved

RichardJackson Engineering Consultants

Contents:-

Appendix

1. Introduction

Richard Jackson Ltd received an instruction to prepare a phase one desk study report for the proposed development of land located off Henham Road, Elsenham, Essex, CM22 6DN.

The works were instructed by the Client, Countryside Properties (UK) Ltd and were carried out in accordance with our fee proposal of 4th March 2021, reference KO/61207/GFQ.

This report has been prepared using historical Ordnance Survey maps and environmental and geological data provided by Groundsure Ltd. This information was supplemented by a site walkover undertaken on 17th March 2021.

The purpose of this report is to document the history and environmental setting of the site and surrounding area and to identify potential sources and receptors of contamination.

A brief assessment has also been made of the key geotechnical concerns at this site.

2. Limitations

All information provided by others is taken in good faith as being accurate, but Richard Jackson Ltd cannot and does not accept liability for the detailed accuracy, errors or omissions in such information.

This report has been prepared for the use of Countryside Properties (UK) Ltd. If any unauthorised third party makes use of this report, they do so at their own risk and Richard Jackson Ltd owe them no duty of care or skill.

3. Proposed Development

It is understood that the proposed development scheme will be for a residential end use, however, at the time of investigation proposed development plans were not available.

4. Site Location and Description

The site was located to the east of Hall Road and south of Henham Road, Elsenham, Essex, CM22 6DN. The approximate Ordnance Survey grid reference for the centre of the site was TL 540 262. A site location plan is presented as Figure 1 in Appendix A. Photographs taken at the time of site walkover are presented in Appendix B.

The site was roughly rectangular with maximum approximate dimensions of 290m north to south by 205m east to west. The site sloped from Henham Road in the northwest, at an approximately elevation of 94m aOD, down to the southern boundary at an approximate elevation of 81m aOD. The slope is steepest centrally on site with a slope of 1:13, as shown on the engineering constraints plan presented in Appendix A.

The site comprised an undeveloped, open, grassed field, which at the time of the site walkover, was being used to graze livestock. The northern third of the site comprised a gently sloping terrace. The central third of the site was the most steeply sloping section, with the slope gradient shallowing across the southernmost part of the site.

The central and southern parts of the site were delineated by a shallow ditch trending northeast to southwest. At the northeast end, the ditch was approximately 0.50m deep, deepening to a max. depth of approximately 1.2m in the southwest. Standing water was observed in the deeper sections of the ditch, but no discernible flow was noted. A row of sparsely distributed trees were present along this ditch line, which was considered to have possibly been a historical field boundary.

The southern corner of the site was separated from the remainder of the site by Heras fencing. There were no obvious features of note within the segregated area, however, new railings were noted on the bridge at Hall Road, beneath which the Stansted Brook passed.

Site accesses were present as gates in the northern, eastern and southern corners of the site. Additionally, pedestrian accesses were also present. These comprised an iron kissing gate present on the southwestern boundary and a wooden stile on the northwestern boundary. The two pedestrian access points were linked by a public footpath crossing the site in a northeast-southwest orientation.

The northwestern site boundary was formed of an approximately 1m high wooden post and barbed wire fence, with Henham Road beyond. A single mature tree, approximately 20m in height, was present on-site adjacent to this boundary.

The northeastern site boundary was formed in the north by an approximately 1m high wooden post and rail fence with Elsenham Place located beyond. Elsenham Place was noted to include 2-3 storey brick and wooden structures with pitched tiled roofs. As the boundary progressed to the southeast, it was formed by approximately 1m high wooden post and wire fencing with a drainage ditch immediately beyond. The ditch was observed to be up to 2.5m below site levels, and at the time of the walkover had water flowing to the south within it. As the site sloped to the south, the ditch was approximately 0.5m below site levels at the eastern site corner. Dense vegetation, including shrubs and trees of 12-20m in height were present along the ditch banks and were noted to include oak amongst other species. A concrete plinth with an inspection cover was noted on-site adjacent to this boundary.

The southeast boundary was formed by a continuation of the southern half of the northeastern boundary with Stansted Brook immediately beyond. The brook was observed to be approximately 0.50m below site levels and at the time of walkover had water flowing to the southwest. The banks to the brook were lined with mature trees of up to 22m in height, with a noted increase in density to the southwest. The brook was noted to be culverted beneath Hall Road at the southern corner of the site.

The southwestern boundary was a continuation of the southeastern boundary, with remnants of a former 1m high metal fence noted. Occasional mature trees of up to 18m in height were present on-site adjacent to the southern half of this boundary. Hall Road was present beyond this boundary, approximately 1-1.5m lower than site levels. The northern half of the boundary was formed of a 1m high wooden post and barbed wire fence with a hedge of the same height beyond. Private residential gardens were present beyond the western corner of the site.

5. Desk Study Findings

The desk study has been compiled using historic Ordnance Survey maps and aerial photographs dating back to 1876, together with environmental and geological data provided by Groundsure Ltd. This information is presented in Appendix C.

5.1. Site History

Table 1, provides a summary of the history of the site and surrounding area. Generally, the potentially contaminative industrial land uses mentioned have been limited to those within 500m of the site boundary.

Table 1: Summary of site history

Ordnance Survey Map Date(s)	Scale(s)	On Site History	Surrounding Area History
1876 – 1877	1:2,500 / 1:10,560	Structures associated with Elsenham Place encroach onto the north of the site at the northeastern boundary. Structures are also shown in the northwest corner, fronting onto what is now Henham Road. The remainder of the site comprises undeveloped fields, with tree lined boundaries in the southern half of the site and a footpath, trending northeast, southwest in the north.	The wider surrounding area is predominantly open agricultural land. Small-scale development associated with the village of Elsenham occupies the immediately surrounding area with features of note including: • Roads adjacent to the northern and western site boundaries; • A smithy approximately 20m to the north; • Elsenham Place with associated ponds to the immediate northeast; • A watercourse flowing to the southwest adjacent to the southeastern boundary with Elsenham Hall and its associated grounds beyond; • A large fish pond and boat house associated with Elsenham Hall approximately 70m to the southeast;

Ordnance Survey Map Date(s)	Scale(s)	On Site History	Surrounding Area History
			• A second pond is shown approximately 200m south of the site. • St. Mary's Church approximately 260m to the south; • A vicarage with glasshouse 25m to the west; • A public house to the immediate west; • A school approximately 70m to the west; • A railway 260m to the west.
1896-1897	1:2,500 / 1:10,560	The site appears unchanged.	The surrounding area is largely unchanged although Elsenham Paddocks are now shown approximately 20m to the southwest.
1919 – 1920	1:2,500 / 1:10,560	The structures associated with Elsenham Place which previously encroached onto the site are no longer shown.	The surrounding area is largely unchanged.
1947	1:10,560	The site appears unchanged.	A large groundworking is now shown approximately 190m to the northeast.
1960 - 1965	1:10,560	The site appears unchanged.	The surrounding area is largely unchanged. The previously noted groundworking to the northeast is now labelled as a sand & gravel pit.
1969 - 1970	1:2,500	The previously noted structures in the north of the site are no longer shown.	Features of note include: • Playing fields are now shown 60m to the north; • The previously noted boat house to the southeast is no longer shown but the associated fishing pond remains; • The smithy to the northwest is no longer shown; • An electricity sub-station exists approximately 60m to the northwest.

Ordnance Survey Map Date(s)	Scale(s)	On Site History	Surrounding Area History
1978 – 1987	1:2,500 / 1:10,000	The site appears unchanged.	Features of note include: • The previously noted sand and gravel pit is no longer shown and may have been infilled; • A large sand pit is shown approximately 390m to the east; • Residential development associated with Elsenham is noted approximately 90m to the northwest.
1993 - 1994	1:2,500 / 1:10,000	The site appears unchanged.	The school to the west has undergone expansion.
1999	Aerial Photo	The site appears unchanged comprising 2no. undeveloped grassed fields, separated by a tree-lined boundary.	The surrounding area appears largely unchanged.
2001 – 2003	1:1,250 / 1:10,000	The site appears unchanged.	The previously noted sand pit to the east is no longer shown and may have been infilled, a golf driving range is labelled in this area.
2009 - 2016	Aerial Photos & 1:10,000	The site appears unchanged.	The surrounding area appears largely unchanged.
2019 - 2021	Aerial Photo & 1:10,000	The site appears unchanged on the OS mapping however, the aerial photography indicates a small compound to be present in the southern corner of the site, off Hall Road. The compound appears to include unmade surfacing and storage containers.	The school to the west has undergone further expansion. Additional residential development has occurred approximately 100m north of the site.

5.2. Geology & Geological Hazards

The British Geological Survey (BGS) 1:50,000 scale series online mapping of the area indicates the site to be underlain by the Kesgrave Catchment Subgroup (sand and gravel) in the north and Head Deposits in the south. Alluvium is indicated to outcrop adjacent to the southeastern boundary and may also extent onto the site. The underlying bedrock geology is recorded as the undifferentiated Thanet Sand Formation and Lambeth Group.

There are 3no. BGS borehole records within 250m. Table 2 provides a summary of the encountered ground conditions.

Table 2: Summary of nearby borehole records

Distance & Direction from site	Final Depth (m bgl)	Geology
35m NW	8.00	• Kesgrave Sand & Gravel to 5.70m bgl • Red Crag – Pebbly Sand to 6.70m bgl • London Clay Formation to 8.00m bgl • Groundwater struck at 2.70m bgl / 92.1m aOD (in the Kesgrave Sands & Gravels)
70m SW	33.52	• Woolwich & Reading Beds – sands and clays to 19.81m bgl • Chalk to 33.52m bgl • Resting Water Level (RWL) at 2.74m bgl / 66.9m aOD
200m W	35.66	• Sand & Gravel to 8.69m bgl • Woolwich & Reading Beds to 23.16m bgl • Chalk to 35.66m bgl • RWL at 24.54m bgl / 68.12m aOD

An area of worked ground is shown approximately 195m to the northeast, in the approximate location of a sand and gravel pit identified on the review of historical surveys in Section 5.1.

Table 3, provide a summary of the risk of natural hazards occurring on-site.

Table 3: Summary of Natural Hazards

Potential Hazard	On-Site Risk
Shrinking or Swelling of Clay	Moderate
Landslides	Very Low
Ground Dissolution	Negligible
Compressible Ground	Negligible / Moderate*
Collapsible Rocks	Very Low
Running Sand	Very Low / Low*
**These risk ratings are associated with the immediately off-site Alluvium.*	

BRE document 'Radon Guidance on Protective Measures for New Buildings', 2007 indicates the site to be in an area where between 1% and 3% of properties are affected by Radon. Radon protection measures are not recommended to be required.

5.3. Hydrology & Hydrogeology

The Kesgrave Catchment Subgroup and Alluvium are designated as a Secondary (A) Aquifer, with the Head Deposits designated as a Secondary (undifferentiated) Aquifer. The underlying undifferentiated Thanet Sand Formation and Lambeth Group are also designated as a Secondary (A) Aquifer.

Secondary (A) aquifers are 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.

Secondary (undifferentiated) aquifers are typically assigned in cases where it has not been possible to attribute either category (A) or (B) to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

The superficial aquifers beneath the site are considered to have a high vulnerability meaning they are easily able to transmit pollution to groundwater due to their high leaching nature. The underlying bedrock geology is designated as a low vulnerability deposit.

The site is not located within a Source Protection Zone (SPZ) and no SPZs exist within 250m of the site.

There are 13no. groundwater abstraction licences listed within 500m of the site. The closest entry relates to a historical abstraction for general farming and domestic use at a location approximately 315m to the south.

There are no surface water abstraction licences within 500m of the site.

Stansted Brook is listed as an on-site watercourse; however, the site walkover recorded this feature immediately beyond the site's southeast boundary.

Localised sections adjacent to the southeast boundary are indicated to be in an Environment Agency Flood Zone 2, where the annual probability of flooding from rivers is 0.1% to 1%.

The highest risk of surface water flooding on-site is listed as a 0.30m to 1.00m flood depth from a 1 in 30 year event.

The northern part of the site is indicated to have a moderate risk of groundwater flooding, the remainder of the site is a low-risk area.

5.4. Background Soil Chemistry

The British Geological Survey (BGS) produces data and estimated background soil chemistry for a number of common elements, which reflect the average natural soil conditions of the area. It should be appreciated that this data is not specific to the site and reflects the average conditions of the area.

Table 4, provides a summary of the soil chemistry values for the site and for comparative purposes provides the 'Suitable 4 Use Levels' (S4ULs) published by Land Quality Management (LQM) Ltd and the Chartered Institute of Environmental Health (CIEH), for a residential land use with plant uptake as reference criteria. In the absence of an S4UL for Lead, the 'Category 4 Screening Values (C4SL), derived by DEFRA in 2014 has been adopted.

Table 4: Soil Chemistry

Element	BGS Estimated Background Soil Chemistry Concentration (mg/kg)	Screening Value (mg/kg)
Arsenic	15 – 25	37
Cadmium	1.8	11
Chromium	60 – 90	910
Nickel	15 – 30	180
Lead	100	200

5.5. Industrial Activities

There are 2no. potentially contaminative recent/current industrial land uses listed within 250m of the site. The entries refer to a vehicle hire and rental business approximately 25m to the southwest and an electricity sub-station 70m to the northwest.

There are 26no. potentially contaminative historical land uses listed within 500m of the site. One of these entries refers to an on-site smithy, however, this feature is also listed off-site to the northwest & the historical surveys indicated the feature to be off-site. The other off-site entries refer to a boat house, sand and gravel pit, unspecified quarry, grave yard/cemetery and cuttings.

There are 2no. entries on the historical tanks database within 500m of the site, both entries refer to an unspecified tank located approximately 450m to the west.

On the historical energy features database, there are 5no. entries within 500m of the site, each of which refer to an electricity sub-station. The closest of these is located approximately 60m to the northwest.

A single current or recent petrol station is listed within 500m of the site. The entry refers to an obsolete GULF filing station approximately 140m to the west.

There is a single Part B licensed pollutant release listed within 500m of the site. The entry refers to a historical permit for other mineral processes at a location approximately 255m to the southeast.

There are 8no. licenced discharge consents to controlled waters within 500m of the of the site. The closest entry refers to the discharge of sewage discharges (final/treated effluent) at Elsenham Primary School located approximately 110m to the southwest.

A single List 2 dangerous substances site is listed within 500m of the site. The closet entry refers to Elsenham Sand Quarry located approximately 495m to the northeast which is authorised for the use of iron.

There are no radioactive substance authorisations, List 1 Dangerous Substances Inventory Sites, COMAH Sites or Licensed Industrial Activities (IPC) located within 500m of the site.

5.6. Pollution

There are no Environment Agency (EA) recorded pollution incidents listed within 500m of the site.

5.7. Mining, Ground Workings & Natural Cavities

A single entry is listed on the BritPits database within 500m of the site. The entry refers to a sand pit located approximately 355m to the northeast where activities are recorded to have ceased. This feature was identified on the review of historical surveys in Section 5.1.

There are 35no. entries for surface ground workings within 250m of the site. The closest entries refer to a fish pond / water body located approximately 75m to the southeast. Other entries include ponds, a sand and gravel pit, unspecified quarry, a graveyard and cuttings.

No underground workings or natural cavities are listed within 500m of the site.

No specific records of mining are listed within 500m of the site. The site is however, located in an area where the small-scale underground mining of chalk may have occurred and there is a potential for mine adits, shafts and tunnels to be present.

5.8. Waste & Landfill

A single historical landfill site is listed within 500m of the site. The entry refers to a landfill located approximately 330m to the east of the site which is recorded to have received industrial and commercial waste between 1978 and 1994.

No current landfill sites, waste treatment, transfer or disposal sites are listed within 500m.

There are 20no. waste exemptions listed within 500m of the site. The closest entries refer to the use of waste in construction and spreading waste on non-agricultural land to confer benefit at a location approximately 220m to the west.

5.9. Environmentally Sensitive Areas

No Sites of Special Scientific Interest (SSSI), Environmentally Sensitive Areas (ESAs), Local or National Nature Reserves or Country Parks are listed within 250m of the site.

6. Risk Assessment

6.1. Regulatory Regime

Contaminated Land is defined under Section 78A (2) of the Environmental Protection Act 1990, Part IIA.

The most recent revision to this legislation, 'The Contaminated Land (England) (Amendment) Regulations 2012 and the Contaminated Land Statutory Guidance for England 2012. Part IIA defines contaminated land as follows:

"Any land which appears to the Local Authority in whose area it is situated to be in such a condition, by reason of substances in, on, or under the land that:

a) Significant harm is being caused, or there is significant possibility of such harm being caused, or

b) Significant Pollution of controlled waters is being or is likely to be caused."

Part IIA was introduced to England on 1st April 2000 and provides a risk-based approach to the identification and remediation of land where

contamination poses an unacceptable risk to the environment or human health. Part IIA of the Act introduces the concept of "pollutant linkages". This is that in order for land to be considered to be contaminated, there must be a contaminant or pollutant source, an exposure pathway by which that contaminant reaches a receptor and the receptor or target itself. If one or more of the elements is missing the land cannot be determined to be contaminated.

Guidance on how the statutory guidance detailed in the Act was to be delivered was detailed in CLR11, 'Model Procedures for the Management of Contamination' (2004). The principles outlined in CLR11 are applied to decisions relating to planning applications.

In addition to the above, the National Planning Policy Framework (NPPF) encourages a positive and proactive approach to secure developments which improve an area socially, economically and environmentally. Consideration should be given to the NPPF during the development of a proposed scheme.

For planning purposes, the NPPF requires that the assessment of risk arising from contamination and the remediation requirements should be considered on the basis of the current environmental setting and land uses, as well as its proposed new use. The NPPF states that planning policies and decisions should ensure a site is suitable for its new end use and that subject to remediation, as a minimum, the land should not be capable of being determined as Contaminated land under Part 2A.

6.2. Potential Sources of Contamination

6.2.1. On-Site

The site has comprised predominantly undeveloped fields throughout the historic period examined (1876-2021). A limited number of structures were noted in the northeast and northwest of the site from the first historical map examined until the late 1910s and late 1960s, respectively. There is considered to be a potential for localised made ground associated with this development history to be present in these areas which may constitute a potential contaminant source, however, it is considered unlikely to have affected the site as a whole.

Recent aerial imagery indicated the presence of a small compound of unknown use in the south of the site. The site walkover recorded a corresponding area, separated from the remainder of the site by Heras fencing. It is considered possible that a temporary compound existed in this area for repair works to the bridge over Stanstead Brook at Hall Road. It is possible that made ground also exists in this area which may be considered a potential source of contamination to the site.

6.2.2. Off-Site

A sand and gravel pit was recorded to the east of the site from the late 1970s. This feature was a registered landfill from 1978-1994 and the area has been used as a golf driving range since the 2000s. This land use is

considered as a potential source of soil, groundwater and ground gas contamination to the subject site.

A further sand pit was recorded to the northeast from the late 1940s until its presumed infilling in the 1970s. The infilling of the feature is also considered as a potential source of contamination to the site.

A smithy was recorded immediately northwest of the site from the first historical map examined (1876) until the 1960s and may be considered as a potential source of contamination. Given the small size of this former land use, it is considered unlikely that associated contamination will have migrated to affect the whole site.

A historical petrol station was listed to the west of the site and may be considered as a potential source of contamination, however, given the location of this feature, down perceived hydraulic gradient, it is considered unlikely that associated contamination will have migrated to impact the subject site.

Electricity sub-stations were recorded in the surrounding area from the late 1960s and may be considered as potential sources of polychlorinated biphenyl (PCB) contamination. PCB are typically of very low mobility in the natural environment and it is therefore considered unlikely that contamination from this remote source will have migrated to affect the subject site.

6.2.3. Summary

Potential sources of contamination therefore include:

On-Site:

- Made Ground

Off-site:

- Landfill
- Infilled Pit
- Smithy

Potential contaminants therefore include:

- Asbestos
- Heavy Metals
- Polycyclic aromatic hydrocarbons (PAH)
- Total Petroleum Hydrocarbons (TPH)
- Ground Gases (carbon-dioxide & methane)

6.3. Potential Receptors of Contamination

Humans, including residential end users of the site, site works and the general public may be considered as receptors of contamination through ingestion, inhalation or through dermal contact.

Controlled waters including the underlying Secondary (A) Aquifers and adjacent Stansted Brook may also be considered as potential receptors of contamination through leaching and migration of contaminants in the soils.

Structures and drainage services are considered as potential receptors of contamination through direct contact with contaminated soils.

Flora is also considered as a potential receptor of contamination through uptake of contamination through the roots.

6.4. Preliminary Conceptual Model & Risk Assessment

From the preceding sections, plausible potential pollutant linkages may be proposed for the site and level of risk assigned. A preliminary qualitative risk assessment has been undertaken, which considers the magnitude of the potential consequence (severity) of the risk occurring, the magnitude of the probability (likelihood) of the risk occurring and provides an overall risk classification.

Table 5, details the relationship between probability, consequence and risk used in the assessment and is based on guidance given in CIRIA Report C552 'Contaminated Land Risk Assessment. A Guide to Good Practice' 2001.

Table 5: Relationship between probability, consequence and risk

		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**High likelihood**	Very high risk	High risk	Moderate risk	Moderate/ low risk
	Likely	High risk	Moderate risk	Moderate/ low risk	Low risk
	Low likelihood	Moderate risk	Moderate/ low risk	Low risk	Very low risk
	Unlikely	Moderate/ low risk	Low risk	Very low risk	Very low risk

This risk assessment is based on the findings from the desk-based research. Table 5 provides a preliminary conceptual model and risk assessment.

Table 6: Preliminary Conceptual Model

Contaminants	Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification
Asbestos, Heavy Metals, PAH & TPH	Made Ground (on-site) Smithy, Landfill & Infilled Pit (off-site)	Direct Contact, Ingestion, Inhalation	Residential End Users, Site Workers, Maintenance Workers	Medium	Low Likelihood	Moderate / Low
		Leaching / Migration	Controlled Waters (Secondary (A) Aquifer & Stansted Brook)	Medium	Unlikely	Low
		Uptake through Roots	Flora	Minor	Unlikely	Very Low
		Direct Contact	Structures & Services	Mild	Unlikely	Very Low
Ground Gases (CO_2 & CH_4)	Landfill & Infilled Pit (off-site)	Inhalation, Accumulation, Explosion	Residential End Users, Site Workers, Maintenance Workers	Severe	Low Likelihood	Moderate

7. Conclusions & Recommendations

The site has comprised a predominantly undeveloped field throughout the historical period examined (1876-2021), with a limited number of structures historically present in the northeast and northwest. More recently the southern corner of the site appears to have been used as a compound for unknown purposes.

The surrounding area was also predominantly undeveloped fields, with small scale development associated with Elsenham also noted.

On-site localised areas of made ground were identified as potential sources of contamination. Off-site, a landfill, infilled sand pit and a smithy were also identified as potential source of contamination.

Several potential receptors of contamination were identified including residential end users, site workers, the underlying Secondary (A) Aquifer and adjacent Stansted Brook, flora, structures and services.

A moderate/low risk from soil and a low risk from ground water contamination was considered to be presented to the identified sensitive receptors at the site. A moderate risk was presented by ground gases.

The anticipated prevailing geology of the Kesgrave Catchment Subgroup and Head Deposits are considered likely to be suitable for the adoption of conventional spread foundations. Alluvium, which may extent beneath the south of the site is typically not suitable for conventional foundation due to its low strength and high compressibility.

The site is noted to slope steeply down to the south and although no visual evidence of slope instability was recorded at the time of the site walkover, it would be prudent to undertaken intrusive investigation to assess the stability of the slope, prior to designing foundations at the site.

The Kesgrave Catchment Subgroup deposits which exist beneath the northern part of the site are typically considered appropriate for the adoption of infiltration drainage. The Head Deposits present beneath the south of the site are unlikely to be suitable for infiltration drainage due to their cohesive nature. If infiltration drainage is to be adopted, soakage tests should be carried out in order that an infiltration rate for the encountered soils may be established. Consideration should also be given to the potential influence infiltration drainage may have on the slope stability at the site.

It is recommended that intrusive ground investigations are undertaken at the site to confirm the prevailing ground conditions, establish the presence and extent of made ground and Alluvium and assess the contamination status of the site. In-situ and geotechnical laboratory testing should be undertaken to confirm the above assumptions and derive geotechnical parameters to facilitate a slope stability assessment.

Intrusive investigations should include the installation and subsequent monitoring of standpipes to assess the gassing regime beneath the site and allow standing water levels to be monitored. It would be prudent to

undertake asbestos testing on recovered samples of made ground, if encountered, as part of the intrusive investigations at the site.

It should be appreciated that as part of the planning process it is a requirement for the Local Planning Authority (LPA) to be satisfied that there is sufficient information about the condition of the land and its impacts and if required, viable remedial options.

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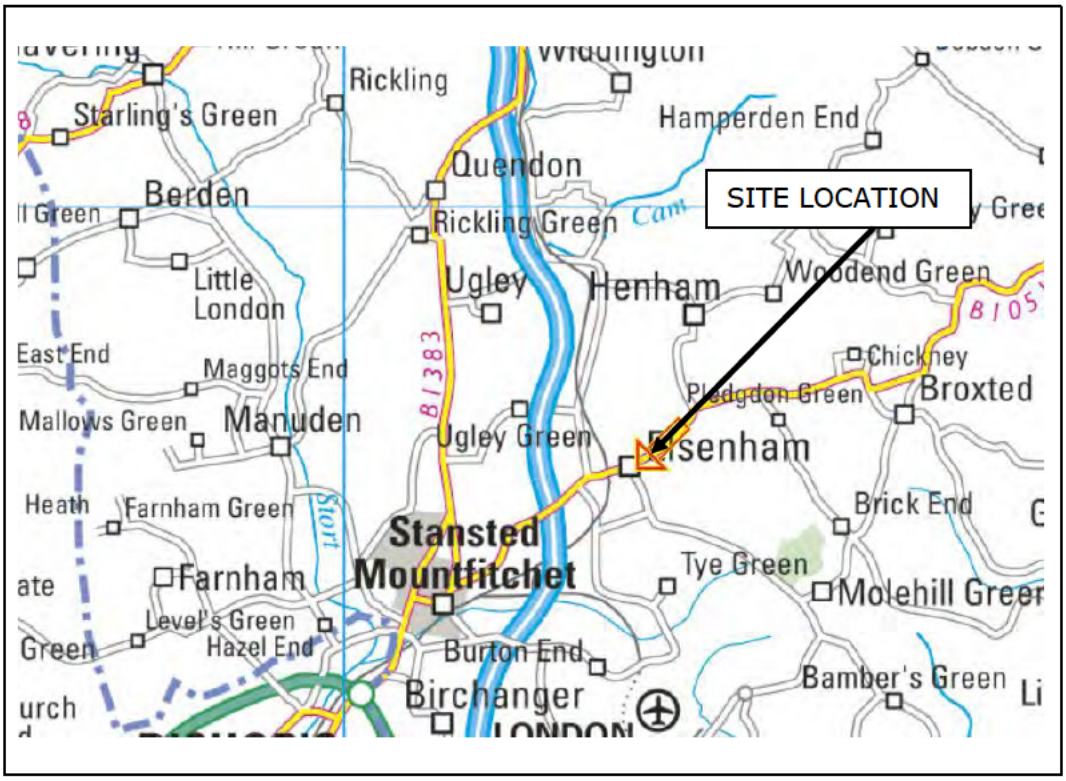
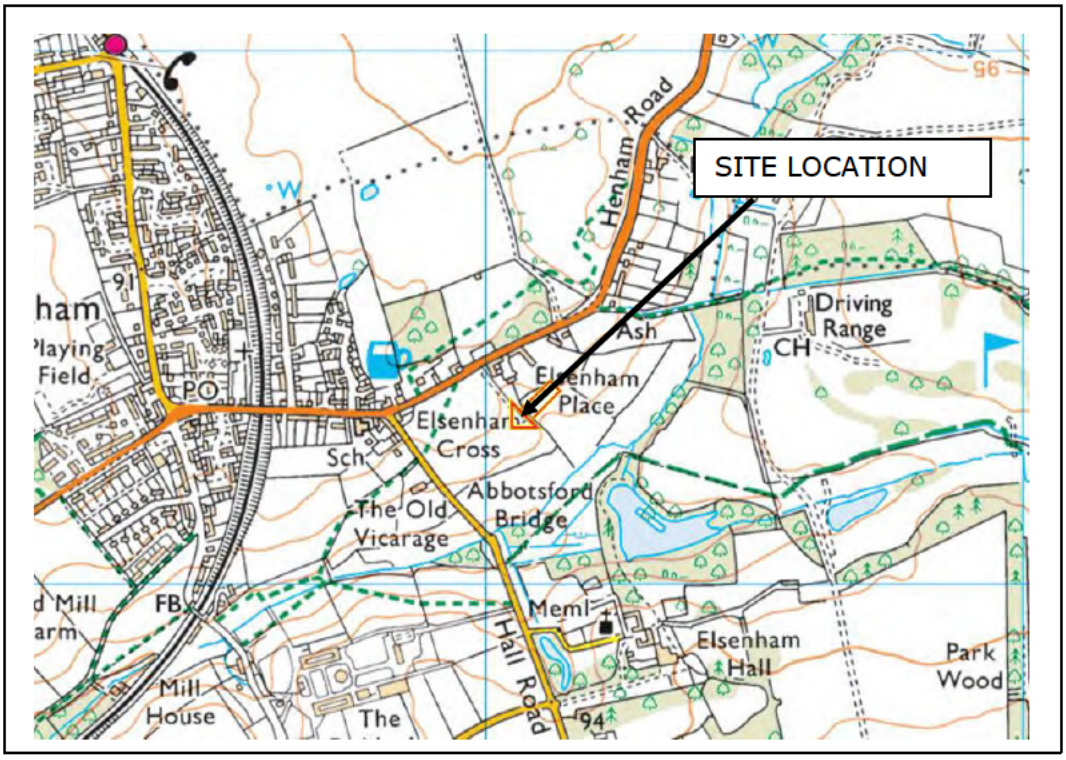
Appendix A

Figures & Drawings





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Land off Henham Road, Elsenham, Essex, CM22 6DN

FIGURE 1

SITE LOCATION PLAN

SCALE: N.T.S.

JOB NO: 61207

ARDENT

worksafe

SSIP

Y

A A A

A

A A

BB

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Engineering Consultants

Appendix B

Site Photographs

Photo 1: Looking onto the site from Henham Road to the northwest.

Photo 2: Site overview, looking south.

Photo 3: Site overview, looking west.

Photo 4: Looking north along northeastern boundary, note Elsenham Place beyond the boundary.

Photo 5: Looking upslope to the northwest.

Photo 6: Ditch beyond the northeastern boundary.

Photo 7: Looking west along shallow tree lined ditch which bisects the site, marking a former field boundary.

Photo 8: Standing water at western end of on-site ditch.

Photo 9: Stansted Brook immediately beyond the southeastern boundary.

Photo 10: Looking north across the site from the southeastern boundary. The trees mark the location of the on-site ditch.

Photo 11: Looking east along site boundary with Stansted Brook, note mature trees.

Photo 12: Herras fencing in the south of the site.

Photo 13: Looking south along southwest boundary with Hall Road.

Photo 14: Residential gardens beyond the western corner of the site.

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Appendix C

Desk Study Information

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

HENHAM ROAD, ELSENHAM, CM22 6DN

Order Details

Date: 22/03/2021

Your ref: 61207

Our Ref: GS-7631333

Client: Richard Jackson Ltd

Site Details

Location: 553994 226249

Area: 5.34 ha

Authority: Uttlesford District Council

[redacted]

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
14	1.1	Historical industrial land uses	1	1	16	8	-
16	1.2	Historical tanks	0	0	0	2	-
16	1.3	Historical energy features	0	0	2	3	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	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
18	2.1	Historical industrial land uses	1	1	21	11	-
20	2.2	Historical tanks	0	0	0	3	-
20	2.3	Historical energy features	0	0	5	10	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	1	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
24	3.7	Waste exemptions	0	0	3	17	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
26	4.1	Recent industrial land uses	0	1	1	-	-
27	4.2	Current or recent petrol stations	0	0	1	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-

27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.7	Regulated explosive sites	0	0	0	0	-
28	4.8	Hazardous substance storage/usage	0	0	0	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
28	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	0	1	-
29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29	**4.13**	**Licensed Discharges to controlled waters**	0	0	1	7	-
30	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
31	4.15	Pollutant release to public sewer	0	0	0	0	-
31	4.16	List 1 Dangerous Substances	0	0	0	0	-
31	**4.17**	**List 2 Dangerous Substances**	0	0	0	2	-
31	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
32	4.19	Pollution inventory substances	0	0	0	0	-
32	4.20	Pollution inventory waste transfers	0	0	0	0	-
32	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
33	**5.1**	**Superficial aquifer**	Identified (within 500m)				
35	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
36	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
37	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
38	5.5	Groundwater vulnerability- local information	None (within 0m)				
39	**5.6**	**Groundwater abstractions**	0	0	0	1	12
42	**5.7**	**Surface water abstractions**	0	0	0	0	20
48	**5.8**	**Potable abstractions**	0	0	0	0	7
49	5.9	Source Protection Zones	0	0	0	0	-
49	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
50	**6.1**	**Water Network (OS MasterMap)**	0	3	16	-	-

52	6.2	Surface water features	1	1	5	-	-
52	6.3	WFD Surface water body catchments	1	-	-	-	-
53	6.4	WFD Surface water bodies	0	1	0	-	-
53	6.5	WFD Groundwater bodies	1	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	High (within 50m)				
55	7.2	Historical Flood Events	1	0	0	-	-
55	7.3	Flood Defences	0	0	0	-	-
55	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
56	7.5	Flood Storage Areas	0	0	0	-	-
57	7.6	Flood Zone 2	Identified (within 50m)				
58	7.7	Flood Zone 3	Identified (within 50m)				

Page	Section	Surface water flooding	
59	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)

Page	Section	Groundwater flooding	
61	9.1	Groundwater flooding	Moderate (within 50m)

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
62	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	2
63	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
63	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
63	10.4	Special Protection Areas (SPA)	0	0	0	0	0
63	10.5	National Nature Reserves (NNR)	0	0	0	0	0
64	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
64	10.7	Designated Ancient Woodland	0	0	0	0	4
64	10.8	Biosphere Reserves	0	0	0	0	0
65	10.9	Forest Parks	0	0	0	0	0
65	10.10	Marine Conservation Zones	0	0	0	0	0
65	10.11	Green Belt	0	0	0	0	1
65	10.12	Proposed Ramsar sites	0	0	0	0	0

66	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
66	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
66	10.15	Nitrate Sensitive Areas	0	0	0	0	0
66	**10.16**	**Nitrate Vulnerable Zones**	2	0	3	1	5
68	**10.17**	**SSSI Impact Risk Zones**	2	-	-	-	-
69	**10.18**	**SSSI Units**	0	0	0	0	2
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
71	11.1	World Heritage Sites	0	0	0	-	-
72	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
72	11.3	National Parks	0	0	0	-	-
72	**11.4**	**Listed Buildings**	0	9	6	-	-
73	11.5	Conservation Areas	0	0	0	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
74	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
75	**12.1**	**Agricultural Land Classification**	Grade 3 (within 250m)				
76	12.2	Open Access Land	0	0	0	-	-
76	12.3	Tree Felling Licences	0	0	0	-	-
76	12.4	Environmental Stewardship Schemes	0	0	0	-	-
76	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
77	**13.1**	**Priority Habitat Inventory**	0	3	8	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78	13.3	Open Mosaic Habitat	0	0	0	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
80	**14.1**	**10k Availability**	Identified (within 500m)				
81	**14.2**	**Artificial and made ground (10k)**	0	0	0	1	-
82	**14.3**	**Superficial geology (10k)**	3	0	6	4	-

83	14.4	Landslip (10k)	0	0	0	0	-
84	14.5	Bedrock geology (10k)	1	0	1	0	-
85	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
86	15.1	50k Availability	Identified (within 500m)				
87	15.2	Artificial and made ground (50k)	0	0	1	1	-
88	15.3	Artificial ground permeability (50k)	0	0	-	-	-
89	15.4	Superficial geology (50k)	3	0	6	2	-
90	15.5	Superficial permeability (50k)	Identified (within 50m)				
90	15.6	Landslip (50k)	0	0	0	0	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92	15.8	Bedrock geology (50k)	1	0	1	0	-
93	15.9	Bedrock permeability (50k)	Identified (within 50m)				
93	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
94	16.1	BGS Boreholes	0	1	2	-	-
Page	Section	Natural ground subsidence					
96	17.1	Shrink swell clays	Moderate (within 50m)				
97	17.2	Running sands	Low (within 50m)				
99	17.3	Compressible deposits	Moderate (within 50m)				
101	17.4	Collapsible deposits	Very low (within 50m)				
102	17.5	Landslides	Very low (within 50m)				
103	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
105	18.1	Natural cavities	0	0	0	0	-
106	18.2	BritPits	0	0	0	1	-
106	18.3	Surface ground workings	0	0	35	-	-
108	18.4	Underground workings	0	0	0	0	0
108	18.5	Historical Mineral Planning Areas	0	0	1	3	-

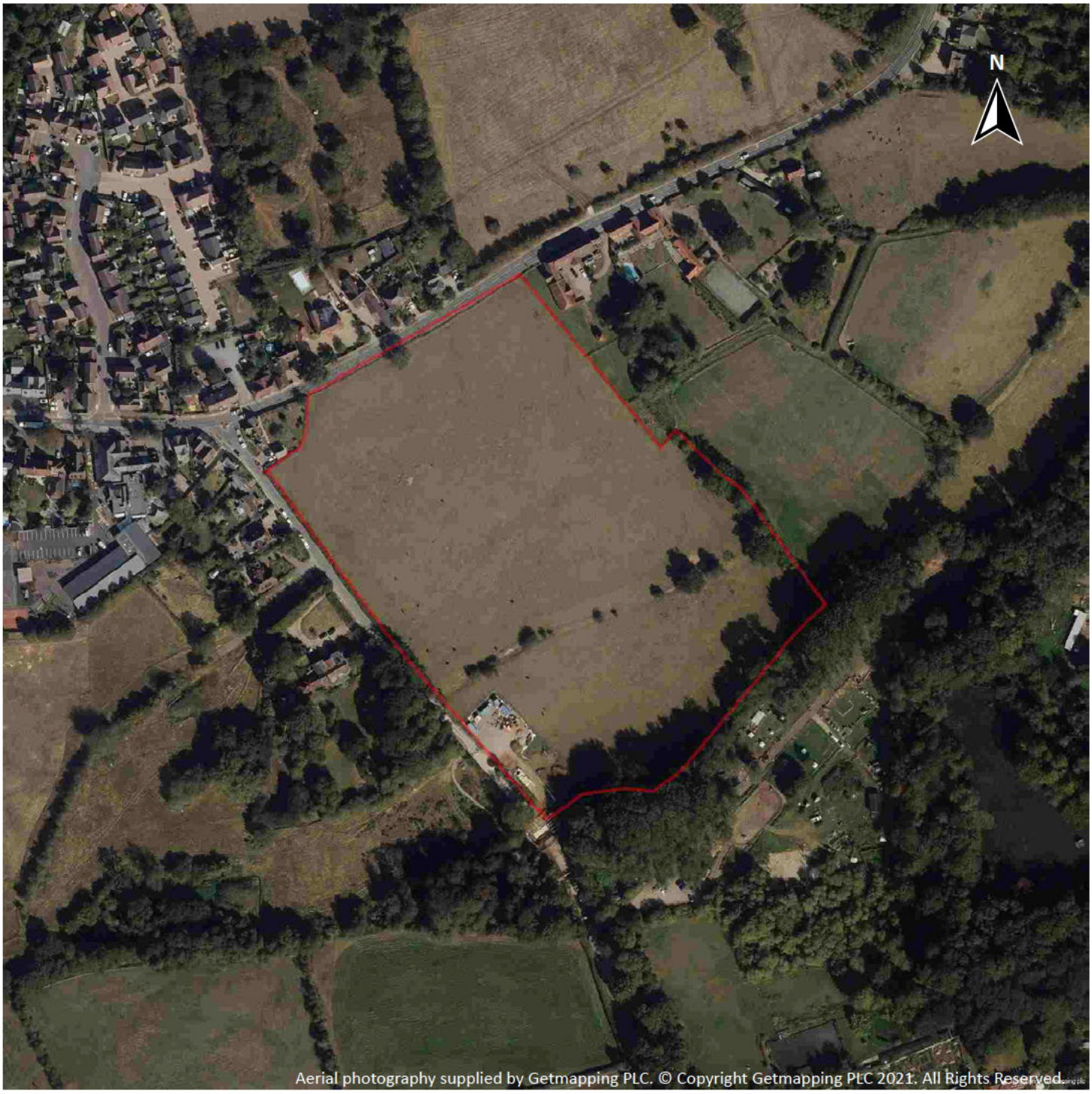
108	**18.6**	**Non-coal mining**	1	0	0	0	2
109	**18.7**	**Mining cavities**	0	0	0	0	1
110	18.8	JPB mining areas	None (within 0m)				
110	18.9	Coal mining	None (within 0m)				
110	18.10	Brine areas	None (within 0m)				
110	18.11	Gypsum areas	None (within 0m)				
110	18.12	Tin mining	None (within 0m)				
111	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
112	**19.1**	**Radon**	Between 1% and 3% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
114	**20.1**	**BGS Estimated Background Soil Chemistry**	7	0	-	-	-
114	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
115	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
116	21.1	Underground railways (London)	0	0	0	-	-
116	21.2	Underground railways (Non-London)	0	0	0	-	-
116	21.3	Railway tunnels	0	0	0	-	-
116	21.4	Historical railway and tunnel features	0	0	0	-	-
116	21.5	Royal Mail tunnels	0	0	0	-	-
117	21.6	Historical railways	0	0	0	-	-
117	21.7	Railways	0	0	0	-	-
117	21.8	Crossrail 1	0	0	0	0	-
117	21.9	Crossrail 2	0	0	0	0	-
117	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 14/09/2019

Site Area: 5.34ha

Recent site history - 2016 aerial photograph

Capture Date: 18/07/2016

Site Area: 5.34ha

Recent site history - 2013 aerial photograph

Capture Date: 02/05/2013

Site Area: 5.34ha

Recent site history - 2009 aerial photograph

Capture Date: 01/07/2009

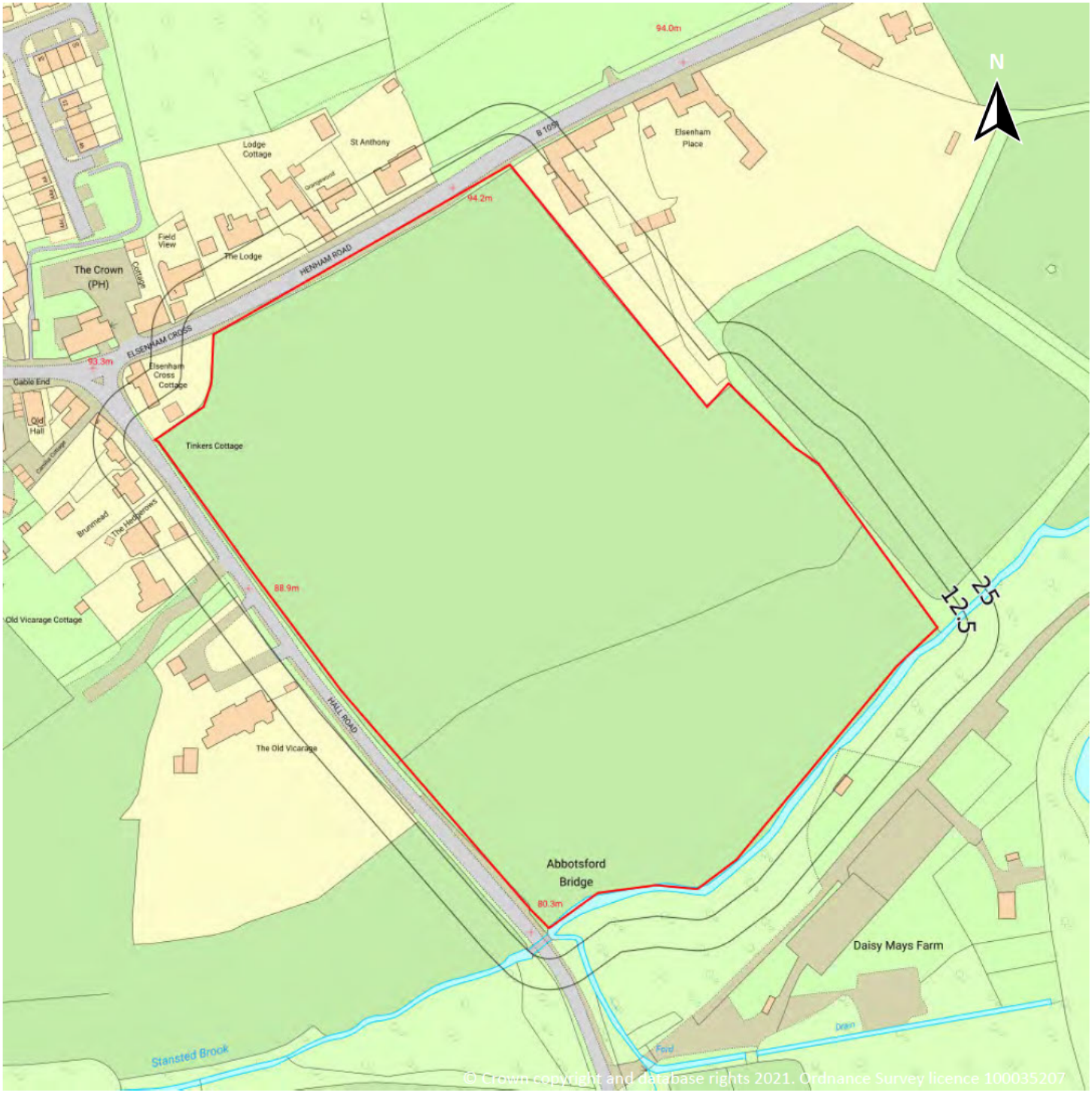
Site Area: 5.34ha

Recent site history - 1999 aerial photograph

Capture Date: 18/07/1999

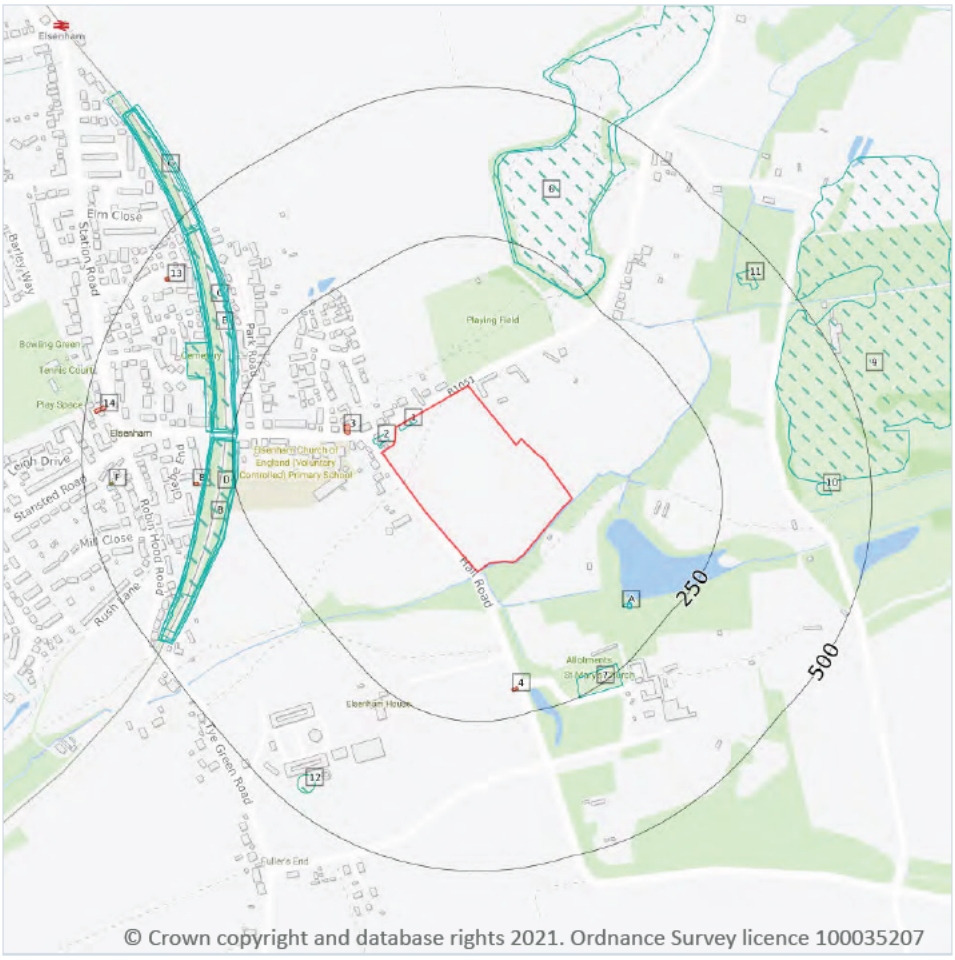
Site Area: 5.34ha

OS MasterMap site plan



Site Area: 5.34ha

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	26

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 14**

ID	Location	Land use	Dates present	Group ID
1	On site	Smithy	1898	2059172

ID	Location	Land use	Dates present	Group ID
2	7m NW	Smithy	1896	2059171
A	181m SE	Boat House	1876	2069251
A	185m SE	Boat House	1965	2114201
A	185m SE	Boat House	1919 - 1947	2094061
5	219m NE	Sand and Gravel Pit	1965	2056656
6	219m NE	Unspecified Quarry	1947	2053180
7	221m SE	Grave Yard	1876	2050709
B	240m W	Cuttings	1982 - 1994	2114894
C	243m W	Cuttings	1898	2077406
D	243m W	Cuttings	1896	2102362
C	244m W	Cuttings	1982 - 1994	2119385
B	245m W	Cuttings	1919 - 1947	2104834
B	246m W	Cuttings	1898	2112575
E	246m W	Cuttings	1919 - 1947	2065133
B	246m W	Cuttings	1965	2114240
E	247m W	Cuttings	1965	2100849
D	248m W	Cuttings	1876	2074709
D	285m W	Cemetery	1919 - 1947	2112365
D	287m W	Cemetery	1965	2096355
9	365m E	Sand Pit	1982 - 1994	2096121
10	407m E	Sand Pit	1877	2057366
11	440m NE	Corn Mill	1877	2047746
12	440m SW	Unspecified Tank	1919	2044959
G	470m NW	Cuttings	1919 - 1947	2070118
G	473m NW	Cuttings	1965	2098144

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	2

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 14**

ID	Location	Land use	Dates present	Group ID
F	452m W	Unspecified Tank	1980 - 1994	353494
F	453m W	Unspecified Tank	1987	358592

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	5

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 14**

ID	Location	Land use	Dates present	Group ID
3	62m NW	Electricity Substation	1969 - 1994	238949
4	203m S	Electricity Substation	1969	226675
8	310m W	Electricity Substation	1980 - 1994	235769
13	450m NW	Electricity Substation	1980 - 1994	237294
14	465m W	Electricity Substation	1969 - 1994	235755

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.

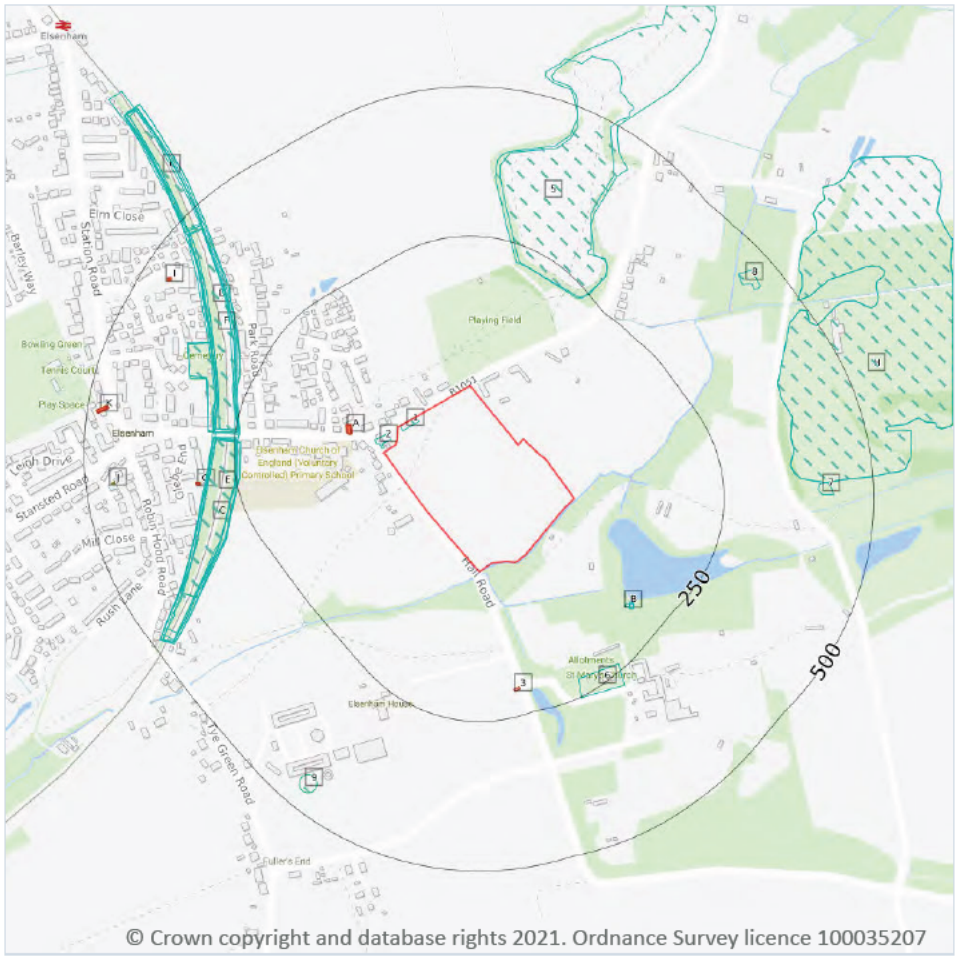
1.6 Historical military land

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	34

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 18**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Smithy**	**1898**	**2059172**
2	7m NW	Smithy	1896	2059171
B	181m SE	Boat House	1876	2069251

ID	Location	Land Use	Date	Group ID
B	185m SE	Boat House	1965	2114201
B	185m SE	Boat House	1947	2094061
B	185m SE	Boat House	1919	2094061
4	219m NE	Sand and Gravel Pit	1965	2056656
5	219m NE	Unspecified Quarry	1947	2053180
6	221m SE	Grave Yard	1876	2050709
C	240m W	Cuttings	1994	2114894
C	240m W	Cuttings	1982	2114894
D	243m W	Cuttings	1898	2077406
E	243m W	Cuttings	1896	2102362
D	244m W	Cuttings	1994	2119385
D	244m W	Cuttings	1982	2119385
C	245m W	Cuttings	1947	2104834
C	245m W	Cuttings	1919	2104834
C	246m W	Cuttings	1898	2112575
F	246m W	Cuttings	1947	2065133
F	246m W	Cuttings	1919	2065133
C	246m W	Cuttings	1965	2114240
F	247m W	Cuttings	1965	2100849
E	248m W	Cuttings	1876	2074709
E	285m W	Cemetery	1947	2112365
E	285m W	Cemetery	1919	2112365
E	287m W	Cemetery	1965	2096355
H	365m E	Sand Pit	1994	2096121
H	365m E	Sand Pit	1982	2096121
7	407m E	Sand Pit	1877	2057366
8	440m NE	Corn Mill	1877	2047746
9	440m SW	Unspecified Tank	1919	2044959

ID	Location	Land Use	Date	Group ID
L	470m NW	Cuttings	1947	2070118
L	470m NW	Cuttings	1919	2070118
L	473m NW	Cuttings	1965	2098144

This data is sourced from Ordnance Survey / Groundsure.

2.2 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. 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 18**

ID	Location	Land Use	Date	Group ID
J	452m W	Unspecified Tank	1980	353494
J	452m W	Unspecified Tank	1994	353494
J	453m W	Unspecified Tank	1987	358592

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	15

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 18**

ID	Location	Land Use	Date	Group ID
A	62m NW	Electricity Substation	1969	238949
A	62m NW	Electricity Substation	1980	238949
A	62m NW	Electricity Substation	1994	238949
A	63m NW	Electricity Substation	1987	238949
3	203m S	Electricity Substation	1969	226675

ID	Location	Land Use	Date	Group ID
G	310m W	Electricity Substation	1980	235769
G	311m W	Electricity Substation	1994	235769
G	313m W	Electricity Substation	1987	235769
I	450m NW	Electricity Substation	1980	237294
I	451m NW	Electricity Substation	1994	237294
I	453m NW	Electricity Substation	1987	237294
K	465m W	Electricity Substation	1969	235755
K	465m W	Electricity Substation	1980	235755
K	466m W	Electricity Substation	1994	235755
K	468m W	Electricity Substation	1987	235755

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.

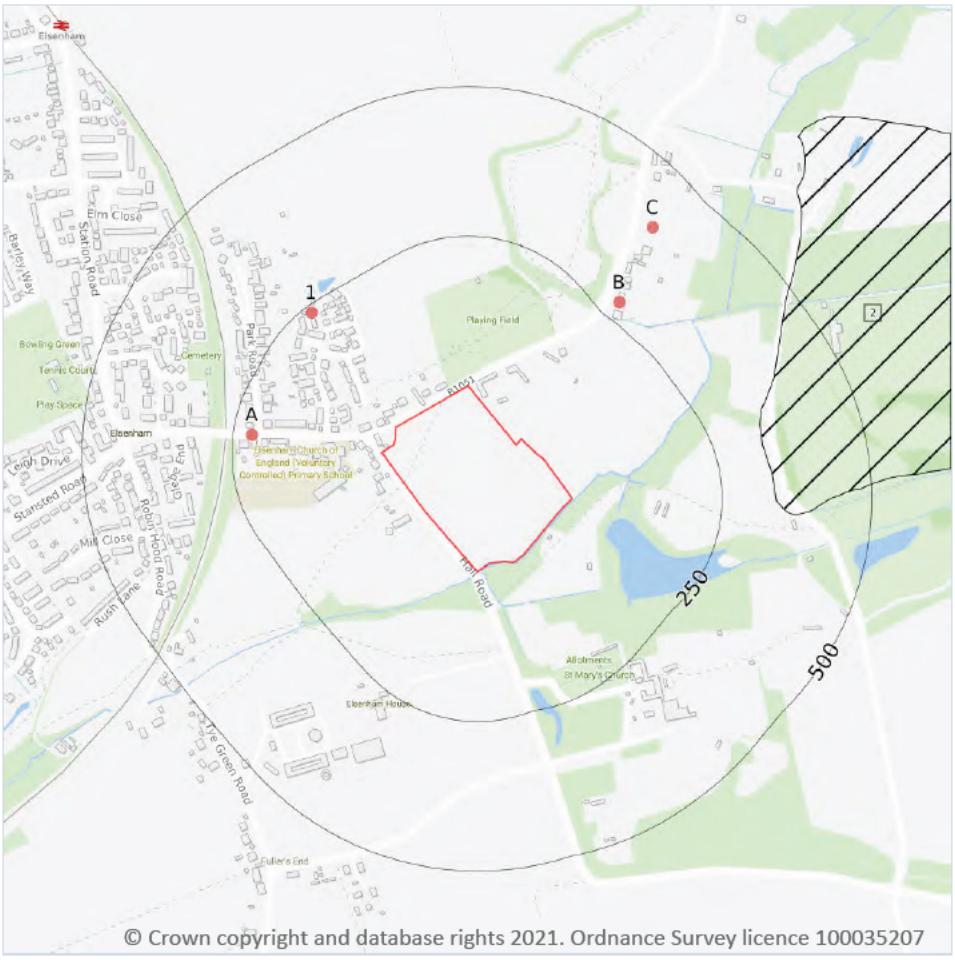
2.5 Historical garages

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



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

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	0

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.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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 22**

ID	Location	Details		
2	330m E	Site Address: Elsenham, Henham Road, Elsenham Licence Holder Address: -	Waste Licence: Yes Site Reference: 049/78, UTT002, AP-788 Waste Type: Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 04/10/1978 Licence Surrender: 20/04/1994	Operator: Elsenham Sand and Gravel Limited Licence Holder: Greenham Construction Materials Limited First Recorded 04/10/1978 Last Recorded: 20/04/1994

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	0

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

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

3.7 Waste exemptions

Records within 500m	20

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 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	219m W	-	WEX202511	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
A	219m W	-	WEX202511	Using waste exemption	Not on a farm	Use of waste in construction
1	238m NW	51, HAILES WOOD, ELSENHAM, BISHOP'S STORTFORD, CM22 6DQ	WEX155194	Using waste exemption	Not on a Farm	Use of waste in construction
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Use of waste to manufacture finished goods
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Incorporation of ash into soil
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Use of mulch
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance

ID	Location	Site	Reference	Category	Sub-Category	Description
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Treating waste exemption	On a farm	Recovery of scrap metal
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Treating waste exemption	On a farm	Sorting and de-naturing of controlled drugs for disposal
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Treating waste exemption	On a farm	Treatment of kitchen waste in a wormery
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Pig and poultry ash
B	279m NE	Pricklemoor Farm, Henham Road, Elsenham, Bishops Stortford, CM22 6DH	WEX144027	Using waste exemption	On a farm	Use of waste in construction
C	405m NE	pricklemoor farm	EPR/LF0503ZH/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
C	405m NE	pricklemoor farm	EPR/LF0503ZH/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	405m NE	pricklemoor farm	EPR/LF0503ZH/A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
C	405m NE	pricklemoor farm	EPR/LF0503ZH/A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
C	405m NE	pricklemoor farm	EPR/LF0503ZH/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance

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

4 Current industrial land use

Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Licensed Discharges to controlled waters

List 2 Dangerous Substances

4.1 Recent industrial land uses

Records within 250m	2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 26**

ID	Location	Company	Address	Activity	Category
1	23m SW	The Executives Choice Chauffeur Co Ltd	The Hedgerows, Hall Road, Elsenham, Bishop's Stortford, Essex, CM22 6DN	Vehicle Hire and Rental	Hire Services
2	71m NW	Electricity Sub Station	Essex, CM22	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 26**

ID	Location	Company	Address	LPG	Status
4	141m W	GULF	High Street, Elsenham, Bishops Stortford, Essex, CM22 6DD	Not Applicable	Obsolete

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	0

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

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

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

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 26**

ID	Location	Address	Details	
5	253m SE	Easton Plant, Gaunts End, Elsenham, Essex, CM6 2LD	Process: Other Mineral Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

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	8

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 26**

ID	Location	Address	Details	
3	112m SW	ELSENHAM C/E PRIMARY SCHOOL, ELSENH, ELSENHAM C/E PRIMARY SCHOOL ELS, ENHAM ESSEX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0174 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: 24/08/1967 Effective Date: 24/08/1967 Revocation Date: 29/10/1992
7	388m NW	BOXWORTH TPS EO	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: ASCNF2153 Permit Version: 1 Receiving Water: Swavesey Drain River Great Ous	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 02/01/1990 Effective Date: 02/01/1990 Revocation Date: 24/01/1991
8	400m W	4 ROBIN HOOD ROAD, ELSENHAM, ESSEX, 4 ROBIN HOOD ROAD ELSENHAM ESS, EX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0111 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: 10/11/1967 Effective Date: 10/11/1967 Revocation Date: 08/10/1996

ID	Location	Address	Details	
9	431m SW	N & S LOOSE BOXES, ELSENHAM STUD, H, N & S LOOSE BOXES ELSENHAM STUD, HOOD RD FULLERS END ELSENHAM, ESSEX	Effluent Type: AGRICULTURE - FISH FARMING - NOT WATER COMPANY Permit Number: CTWC.0487 Permit Version: 1 Receiving Water: GLACIAL GRAVELS	Status: TRANSFERRED FROM COPA 1974 Issue date: 12/11/1985 Effective Date: 12/11/1985 Revocation Date: 02/10/2000
10	470m NW	BROOM FARM HOUSING ESTATE, ELSENHAM, ESSEX.	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Permit Number: PR1LFU9 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 26/08/1977 Effective Date: 26/08/1977 Revocation Date: 18/02/1992
A	491m NW	Oziers, Elsenham, Oziers, Elsenham	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1656 Permit Version: 1 Receiving Water: STANSTEAD BROOK	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
A	491m NW	Oziers, Elsenham, Oziers, Elsenham	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1656 Permit Version: 2 Receiving Water: Stanstead Brook	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 13/10/2015
B	493m NE	ELSENHAM SAND QUARRY, HENHAM RD, EL, ELSENHAM SAND QUARRY HENHAM RD , ELSENHAM NR STANSTEAD MOUNTFIC, HET, ESSEX	Effluent Type: UNSPECIFIED Permit Number: CTWC.0887 Permit Version: 1 Receiving Water: STANSTEAD BROOK	Status: TRANSFERRED FROM COPA 1974 Issue date: 19/05/1986 Effective Date: 19/05/1986 Revocation Date: 16/12/2002

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	2

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.

Features are displayed on the Current industrial land use map on **page 26**

ID	Location	Name	Status	Receiving Water	Authorised Substances
6	356m E	Kings Hedges Pool	Not Active	Na	pH
B	494m NE	Elsenham Sand Quarry (greenhams) Outlet A	Active	Stansted BrookLee	Iron

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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.

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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.

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

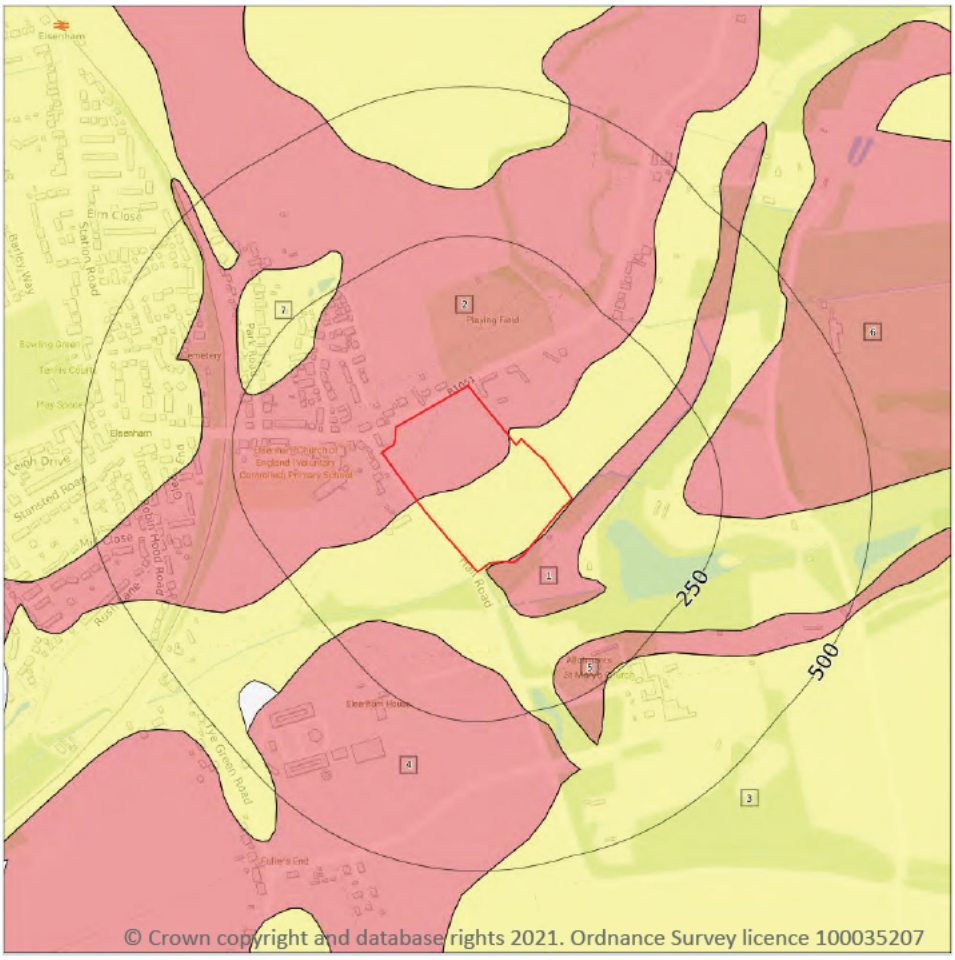
4.21 Pollution inventory radioactive waste

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 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	7

Aquifer status of groundwater held within superficial geology.

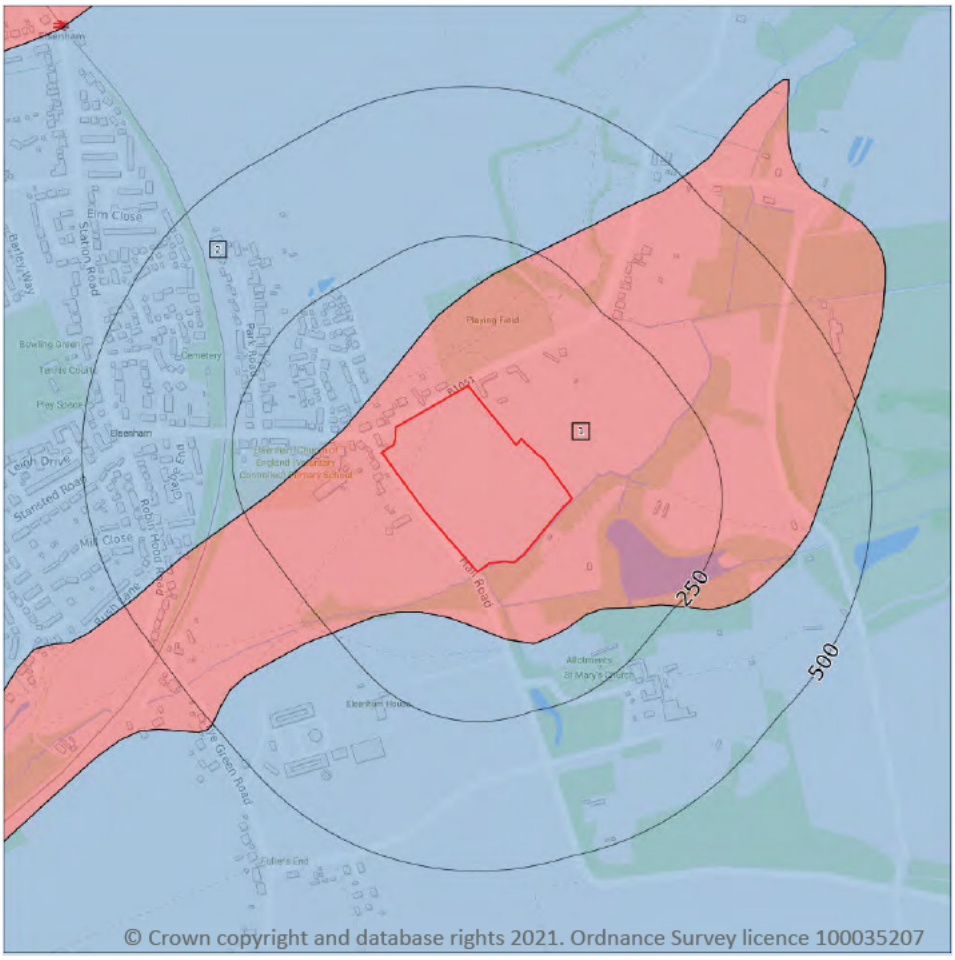
Features are displayed on the Hydrogeology map on **page 33**

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	126m SW	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
5	176m 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	185m E	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
7	190m NW	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

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	2

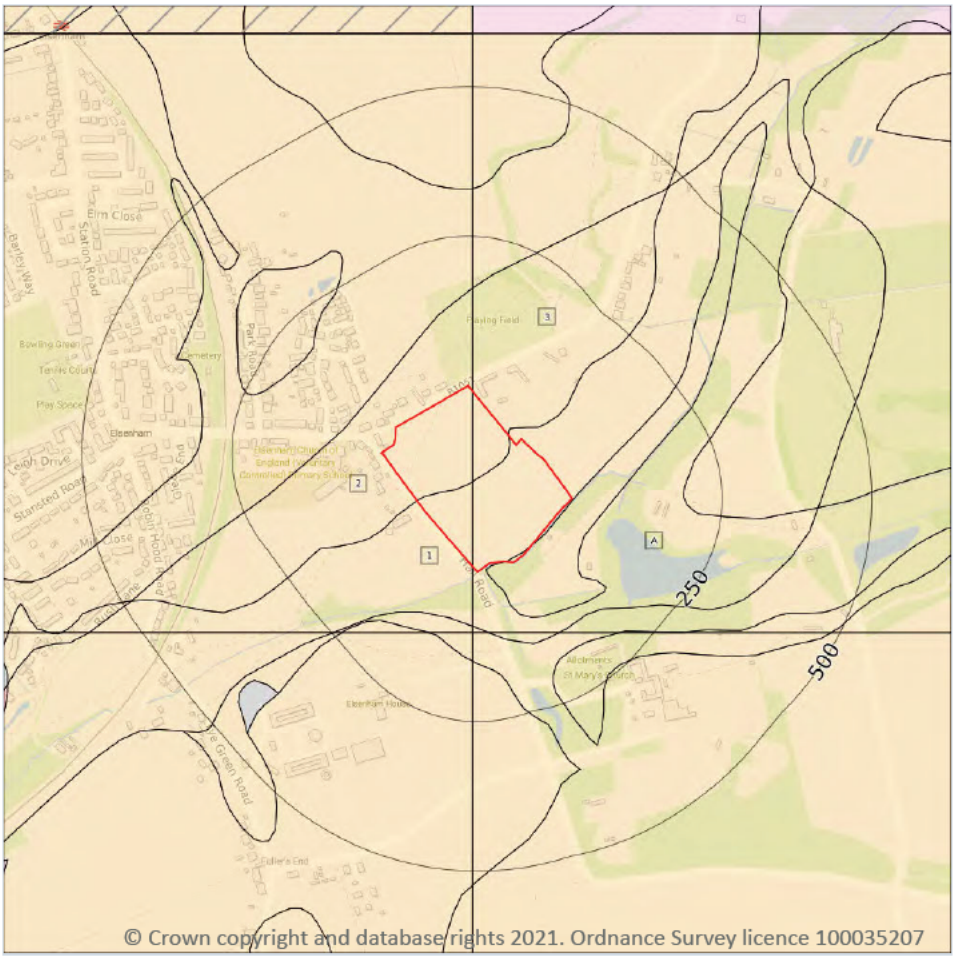
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 35**

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	65m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

5.3 Groundwater vulnerability

Records within 50m	5

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 36**

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

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

5.4 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.

5.5 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)

5.6 Groundwater abstractions

Records within 2000m	13

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 39**

ID	Location	Details	
1	314m S	Status: Historical Licence No: 29/38/06/0042 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: ELSENHAM HALL, ELSENHAM - WELL Data Type: Point Name: M F CURRAN & P J LAWRENCE Easting: 554100 Northing: 225800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/09/1995 Version End Date: -
-	1125m NE	Status: Historical Licence No: 29/38/06/0123 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: PLEDGDON HALL, BISHOPS STORTFORD - RESERVOIR Data Type: Point Name: B W SMITH (PLEDGDON FARMS) LTD Easting: 554900 Northing: 227100	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 721 Original Application No: - Original Start Date: 16/05/1980 Expiry Date: - Issue No: 100 Version Start Date: 19/03/1996 Version End Date: -
-	1125m NE	Status: Historical Licence No: 29/38/06/0123 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: PLEDGDON HALL, BISHOPS STORTFORD - RESERVOIR Data Type: Point Name: B W SMITH (PLEDGDON FARMS) LTD Easting: 554900 Northing: 227100	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 721 Original Application No: - Original Start Date: 16/05/1980 Expiry Date: - Issue No: 101 Version Start Date: 19/04/2007 Version End Date: -
-	1132m NE	Status: Historical Licence No: 29/38/06/0123 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: PLEDGDON HALL, BISHOPS STORTFORD - RESERVOIR Data Type: Point Name: B W SMITH (PLEDGDON FARMS) LTD Easting: 554910 Northing: 227100	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 721 Original Application No: - Original Start Date: 16/05/1980 Expiry Date: - Issue No: 101 Version Start Date: 19/04/2007 Version End Date: -

ID	Location	Details	
-	1132m NE	Status: Active Licence No: 29/38/06/0123 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: PLEDGDON HALL, BISHOPS STORTFORD - RESERVOIR Data Type: Point Name: B W SMITH (PLEDGDON FARMS) LTD Easting: 554910 Northing: 227100	Annual Volume (m^3): 18,184 Max Daily Volume (m^3): 721 Original Application No: - Original Start Date: 16/05/1980 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2018 Version End Date: -
-	1212m SW	Status: Active Licence No: 29/38/06/0102 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: STANSTED AIRPORT - BOREHOLE 2 Data Type: Point Name: STANSTED AIRPORT LTD Easting: 553500 Northing: 225000	Annual Volume (m^3): 9,092 Max Daily Volume (m^3): 9,092 Original Application No: - Original Start Date: 13/07/1971 Expiry Date: - Issue No: 100 Version Start Date: 22/08/1988 Version End Date: -
-	1228m SE	Status: Historical Licence No: TH/038/0006/001 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM ESTATE - BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555026 Northing: 225340	Annual Volume (m^3): 58320 Max Daily Volume (m^3): 194.4 Original Application No: - Original Start Date: 01/01/2010 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/01/2010 Version End Date: -
-	1228m SE	Status: Active Licence No: TH/038/0006/001/R01 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM ESTATE - BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555026 Northing: 225340	Annual Volume (m^3): 28,000 Max Daily Volume (m^3): 194.40 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1228m SE	Status: Active Licence No: TH/038/0006/001/R01 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM ESTATE - BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555026 Northing: 225340	Annual Volume (m^3): 28,000 Max Daily Volume (m^3): 194.40 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -

ID	Location	Details	
-	1229m SE	Status: Historical Licence No: 29/38/06/0162 Details: Process water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT GAUNTS END, ESSEX Data Type: Point Name: CHEERGREY PROPERTIES LIMITED Easting: 555020 Northing: 225330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/01/2001 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 11/01/2001 Version End Date: -
-	1229m SE	Status: Historical Licence No: 29/38/06/0162 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT GAUNTS END, ESSEX Data Type: Point Name: CHEERGREY PROPERTIES LIMITED Easting: 555020 Northing: 225330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/01/2001 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 11/01/2001 Version End Date: -
-	1229m SE	Status: Historical Licence No: 29/38/06/0162 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM- BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555020 Northing: 225330	Annual Volume (m^3): 58320 Max Daily Volume (m^3): 194.4 Original Application No: - Original Start Date: 11/01/2001 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 19/06/2009 Version End Date: -
-	1910m S	Status: Active Licence No: 29/38/06/0102 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: STANSTED AIRPORT - BOREHOLE 1 Data Type: Point Name: STANSTED AIRPORT LTD Easting: 554200 Northing: 224200	Annual Volume (m^3): 9,092 Max Daily Volume (m^3): 9,092 Original Application No: - Original Start Date: 13/07/1971 Expiry Date: - Issue No: 100 Version Start Date: 22/08/1988 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	20

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 39**

ID	Location	Details	
A	719m NE	Status: Historical Licence No: 29/38/06/0141 Details: Dust Suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTEAD BROOK ELSENHAM LANDFILL SITE Data Type: Point Name: Viridor Waste Management Limited Easting: 554619 Northing: 226807	Annual Volume (m^3): 95000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 104 Version Start Date: 29/09/2009 Version End Date: -
A	719m NE	Status: Historical Licence No: 29/38/06/0141 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTEAD BROOK ELSENHAM LANDFILL SITE Data Type: Point Name: Viridor Waste Management Limited Easting: 554619 Northing: 226807	Annual Volume (m^3): 95000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 104 Version Start Date: 29/09/2009 Version End Date: -
A	719m NE	Status: Historical Licence No: 29/38/06/0141 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTEAD BROOK ELSENHAM LANDFILL SITE Data Type: Point Name: Viridor Waste Management Limited Easting: 554619 Northing: 226807	Annual Volume (m^3): 95000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 104 Version Start Date: 29/09/2009 Version End Date: -
A	719m NE	Status: Active Licence No: TH/038/0006/010 Details: Dust Suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554619 Northing: 226807	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -

ID	Location	Details	
A	719m NE	Status: Active Licence No: TH/038/0006/010 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554619 Northing: 226807	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -
A	719m NE	Status: Active Licence No: TH/038/0006/010 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554619 Northing: 226807	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -
B	747m NE	Status: Active Licence No: TH/038/0006/010 Details: Dust Suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554604 Northing: 226858	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -
B	747m NE	Status: Active Licence No: TH/038/0006/010 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554604 Northing: 226858	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -

ID	Location	Details	
B	747m NE	Status: Active Licence No: TH/038/0006/010 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554604 Northing: 226858	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -
B	752m NE	Status: Active Licence No: TH/038/0006/010 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554609 Northing: 226860	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -
B	752m NE	Status: Active Licence No: TH/038/0006/010 Details: Dust Suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554609 Northing: 226860	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -
B	752m NE	Status: Active Licence No: TH/038/0006/010 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIBUTARY OF STANSTED BROOK AT ELSENHAM LANDFILL SITE, ESSEX Data Type: Point Name: Viridor Waste Management Limited Easting: 554609 Northing: 226860	Annual Volume (m^3): 95,000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 01/01/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/01/2013 Version End Date: -

ID	Location	Details	
B	766m NE	Status: Historical Licence No: 29/38/06/0141 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTEAD BROOK ELSENHAM LANDFILL SITE Data Type: Point Name: Viridor Waste Management Limited Easting: 554615 Northing: 226873	Annual Volume (m^3): 95000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 104 Version Start Date: 29/09/2009 Version End Date: -
B	766m NE	Status: Historical Licence No: 29/38/06/0141 Details: Dust Suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTEAD BROOK ELSENHAM LANDFILL SITE Data Type: Point Name: Viridor Waste Management Limited Easting: 554615 Northing: 226873	Annual Volume (m^3): 95000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 104 Version Start Date: 29/09/2009 Version End Date: -
B	766m NE	Status: Historical Licence No: 29/38/06/0141 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTEAD BROOK ELSENHAM LANDFILL SITE Data Type: Point Name: Viridor Waste Management Limited Easting: 554615 Northing: 226873	Annual Volume (m^3): 95000 Max Daily Volume (m^3): 318 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 104 Version Start Date: 29/09/2009 Version End Date: -
B	766m NE	Status: Historical Licence No: 29/38/06/0157 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTED BROOK AT ELSENHAM QUARRY, ELSENHAM Data Type: Point Name: BRETT WASTE MANAGEMENT LIMITED Easting: 554630 Northing: 226860	Annual Volume (m^3): 1718 Max Daily Volume (m^3): 7.1 Original Application No: - Original Start Date: 02/09/1999 Expiry Date: 31/12/2012 Issue No: 2 Version Start Date: 28/04/2000 Version End Date: -

ID	Location	Details	
B	766m NE	Status: Historical Licence No: 29/38/06/0141 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTED BROOK AT ELSENHAM QUARRY, ELSENHAM Data Type: Point Name: VIRIDOR WASTE (KENT) LIMITED Easting: 554630 Northing: 226860	Annual Volume (m^3): 97295 Max Daily Volume (m^3): 268.92 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 103 Version Start Date: 08/08/2007 Version End Date: -
B	766m NE	Status: Historical Licence No: 29/38/06/0141 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: TRIB OF STANSTED BROOK AT ELSENHAM QUARRY, ELSENHAM Data Type: Point Name: VIRIDOR WASTE (KENT) LIMITED Easting: 554630 Northing: 226860	Annual Volume (m^3): 97295 Max Daily Volume (m^3): 268.92 Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 103 Version Start Date: 08/08/2007 Version End Date: -
B	776m NE	Status: Historical Licence No: 29/38/06/0141 Details: Make-Up or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: ELSENHAM SAND QUARRY - TRIBUTARY OF STANSTED BROOK Data Type: Point Name: BRETT WASTE MANAGEMENT LIMITED Easting: 554600 Northing: 226900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/10/1992 Expiry Date: 31/12/2012 Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
B	776m NE	Status: Historical Licence No: 29/38/06/0157 Details: Process water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: ELSENHAM SAND QUARRY - TRIBUTARY OF STANSTED BROOK Data Type: Point Name: GREENHAM CONSTRUCTION MATERIALS LTD Easting: 554600 Northing: 226900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2012 Issue No: 1 Version Start Date: 02/09/1999 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	7

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 39**

ID	Location	Details	
-	1212m SW	Status: Active Licence No: 29/38/06/0102 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: STANSTED AIRPORT - BOREHOLE 2 Data Type: Point Name: STANSTED AIRPORT LTD Easting: 553500 Northing: 225000	Annual Volume (m^3): 9,092 Max Daily Volume (m^3): 9,092 Original Application No: - Original Start Date: 13/07/1971 Expiry Date: - Issue No: 100 Version Start Date: 22/08/1988 Version End Date: -
-	1228m SE	Status: Historical Licence No: TH/038/0006/001 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM ESTATE - BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555026 Northing: 225340	Annual Volume (m^3): 58320 Max Daily Volume (m^3): 194.4 Original Application No: - Original Start Date: 01/01/2010 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/01/2010 Version End Date: -
-	1228m SE	Status: Active Licence No: TH/038/0006/001/R01 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM ESTATE - BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555026 Northing: 225340	Annual Volume (m^3): 28,000 Max Daily Volume (m^3): 194.40 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1228m SE	Status: Active Licence No: TH/038/0006/001/R01 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM ESTATE - BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555026 Northing: 225340	Annual Volume (m^3): 28,000 Max Daily Volume (m^3): 194.40 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -

ID	Location	Details	
-	1229m SE	Status: Historical Licence No: 29/38/06/0162 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT GAUNTS END, ESSEX Data Type: Point Name: CHEERGREY PROPERTIES LIMITED Easting: 555020 Northing: 225330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/01/2001 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 11/01/2001 Version End Date: -
-	1229m SE	Status: Historical Licence No: 29/38/06/0162 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: WATER CIRCLE, ELSENHAM- BOREHOLE Data Type: Point Name: ELSENHAM WATER LIMITED Easting: 555020 Northing: 225330	Annual Volume (m^3): 58320 Max Daily Volume (m^3): 194.4 Original Application No: - Original Start Date: 11/01/2001 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 19/06/2009 Version End Date: -
-	1910m S	Status: Active Licence No: 29/38/06/0102 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: STANSTED AIRPORT - BOREHOLE 1 Data Type: Point Name: STANSTED AIRPORT LTD Easting: 554200 Northing: 224200	Annual Volume (m^3): 9,092 Max Daily Volume (m^3): 9,092 Original Application No: - Original Start Date: 13/07/1971 Expiry Date: - Issue No: 100 Version Start Date: 22/08/1988 Version End Date: -

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

5.9 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.

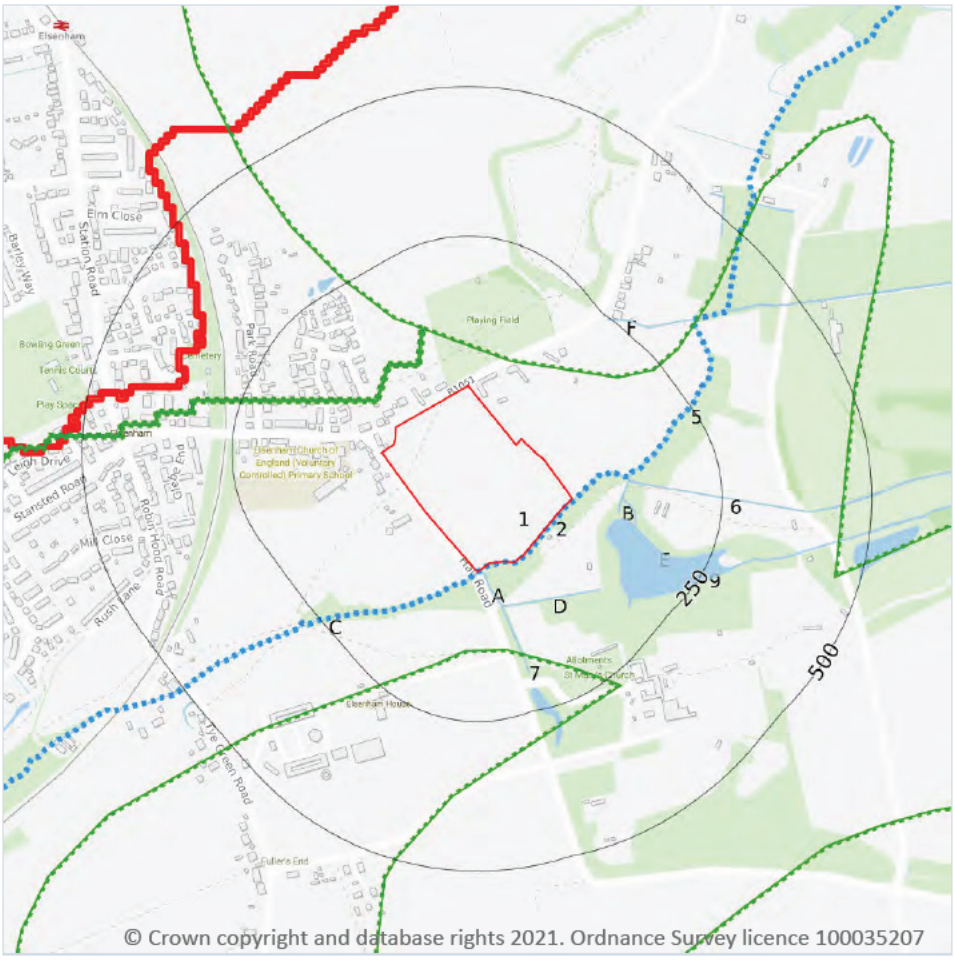
5.10 Source Protection Zones (confined aquifer)

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.

6 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

6.1 Water Network (OS MasterMap)

Records within 250m	19

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 50**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
A	3m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	3m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Stansted Brook
A	68m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	68m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	79m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	83m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	83m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	95m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	98m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	98m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	102m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Stansted Brook
B	115m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	118m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
E	118m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	126m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	161m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	224m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	246m NE	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.

6.2 Surface water features

Records within 250m	7

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 50**

This data is sourced from the Ordnance Survey.

6.3 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 50**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River WB catchment**	**Stanstead Brook**	**GB106038040090**	**Upper Lee**	**Upper Lee**

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

6.4 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 50**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	1m SE	River	Stanstead Brook	GB106038040090	Bad	Good	Bad	2016

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

6.5 WFD Groundwater bodies

Records on site	1

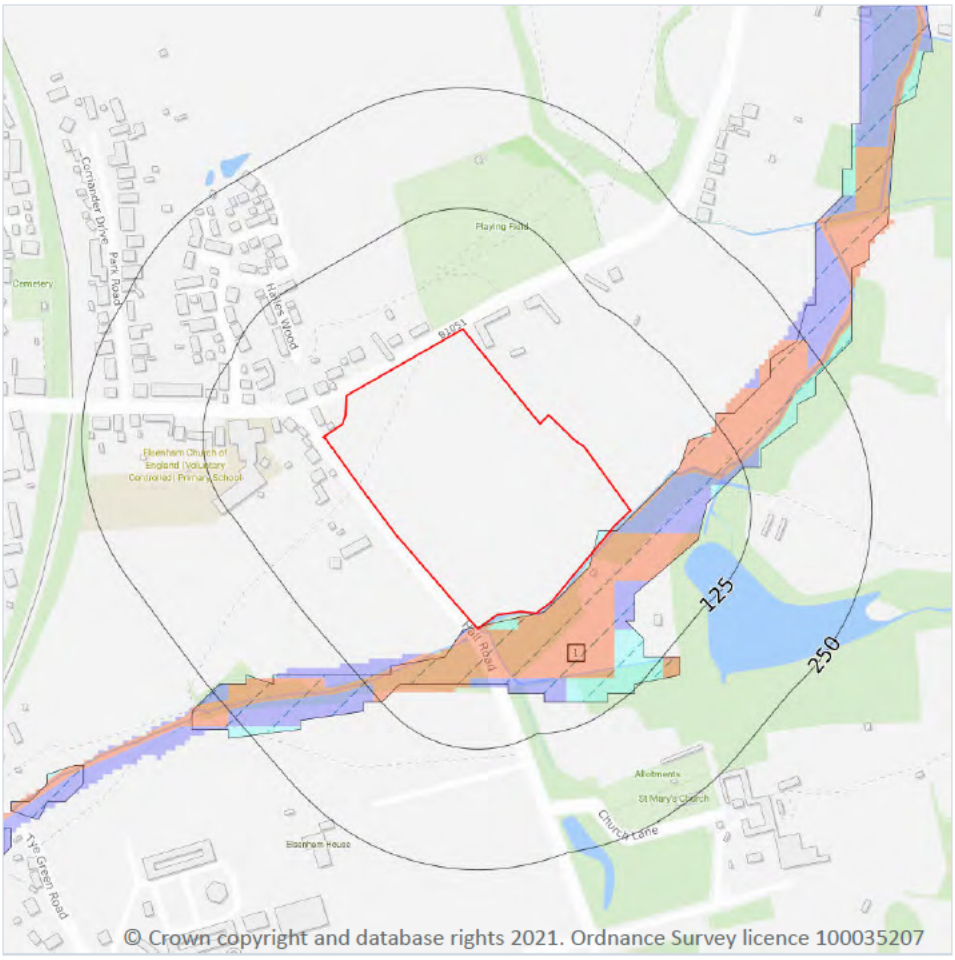
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 50**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**North Mymms Tertiaries**	**GB40602G401200**	**Poor**	**Good**	**Poor**	**2015**

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

7 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

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	8

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 54**

Distance	RoFRaS flood risk
On site	**High**
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	1

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.

Features are displayed on the River and coastal flooding map on **page 54**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	**On site**	**06marchspring1947**	**1947-01-01 1947-12-12**	**Main river**	**Channel capacity exceeded (no raised defences)**	**Fluvial**

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

7.3 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.

7.4 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.

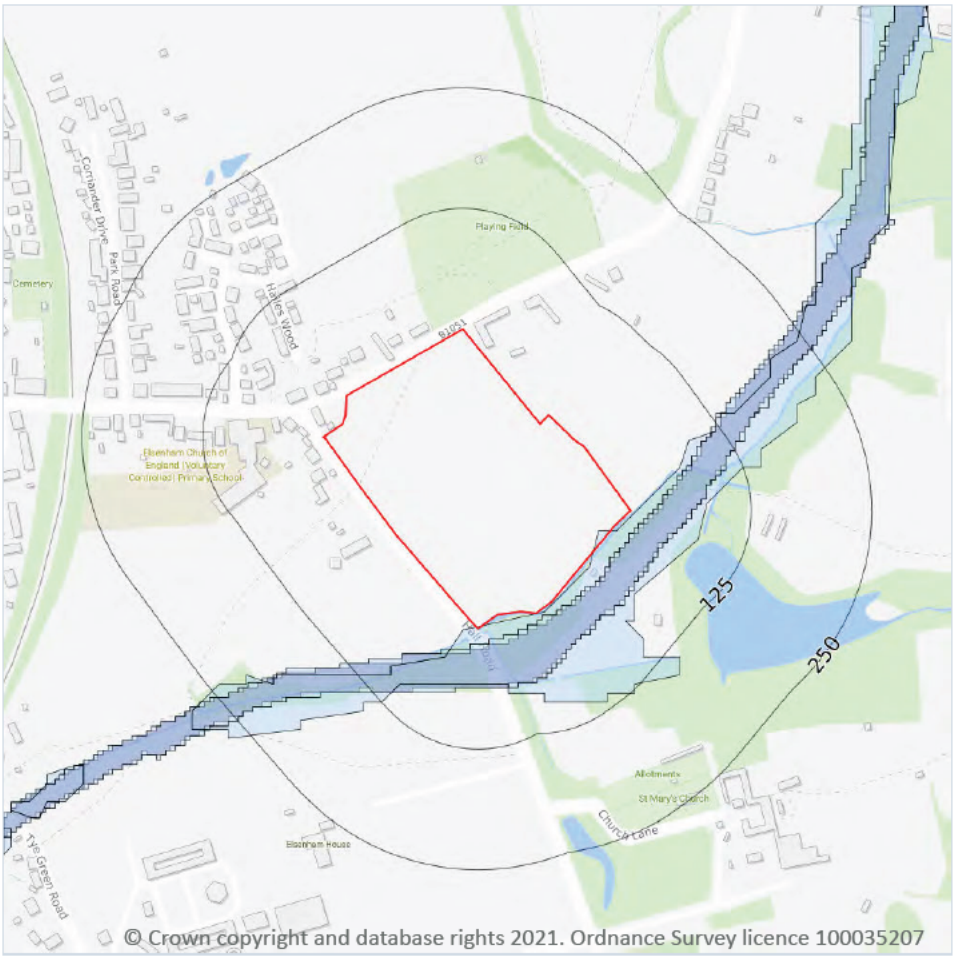
7.5 Flood Storage Areas

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



7.6 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 54**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

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

7.7 Flood Zone 3

Records within 50m	1

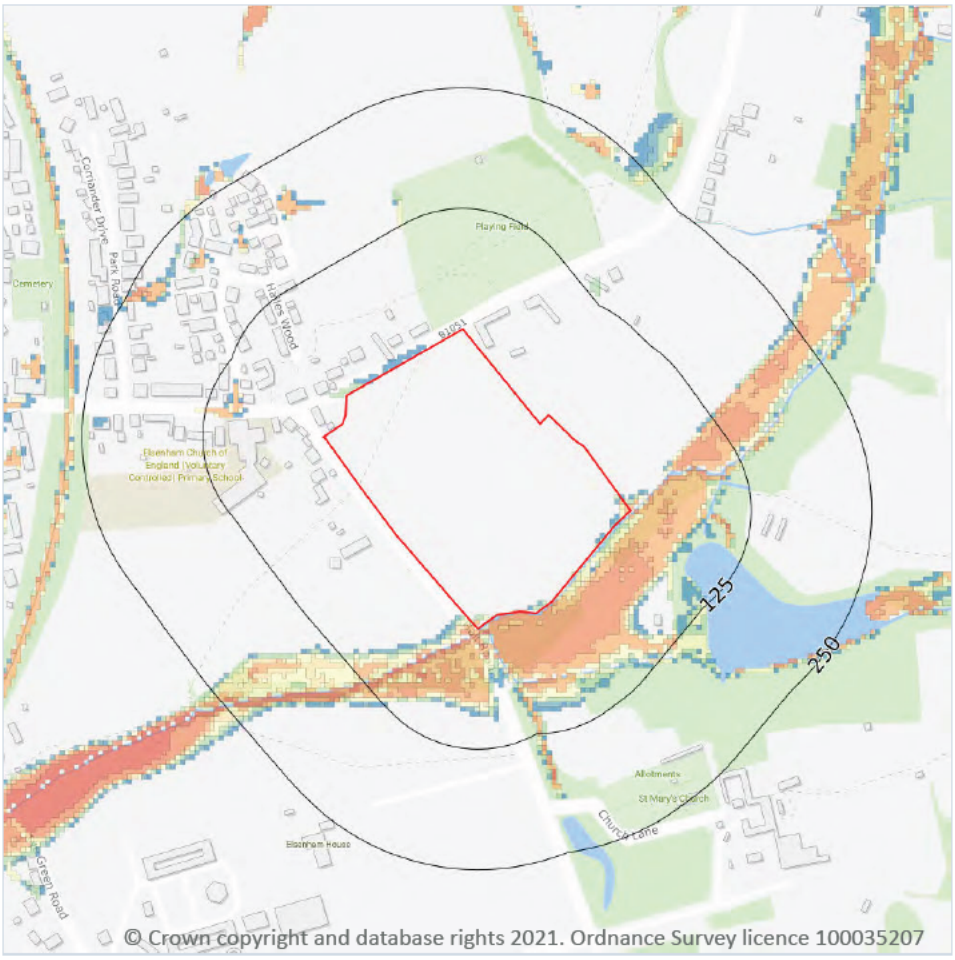
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 54**

Location	Type
11m SE	Zone 3 - (Fluvial Models)

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

8 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

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.3m - 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 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 59**

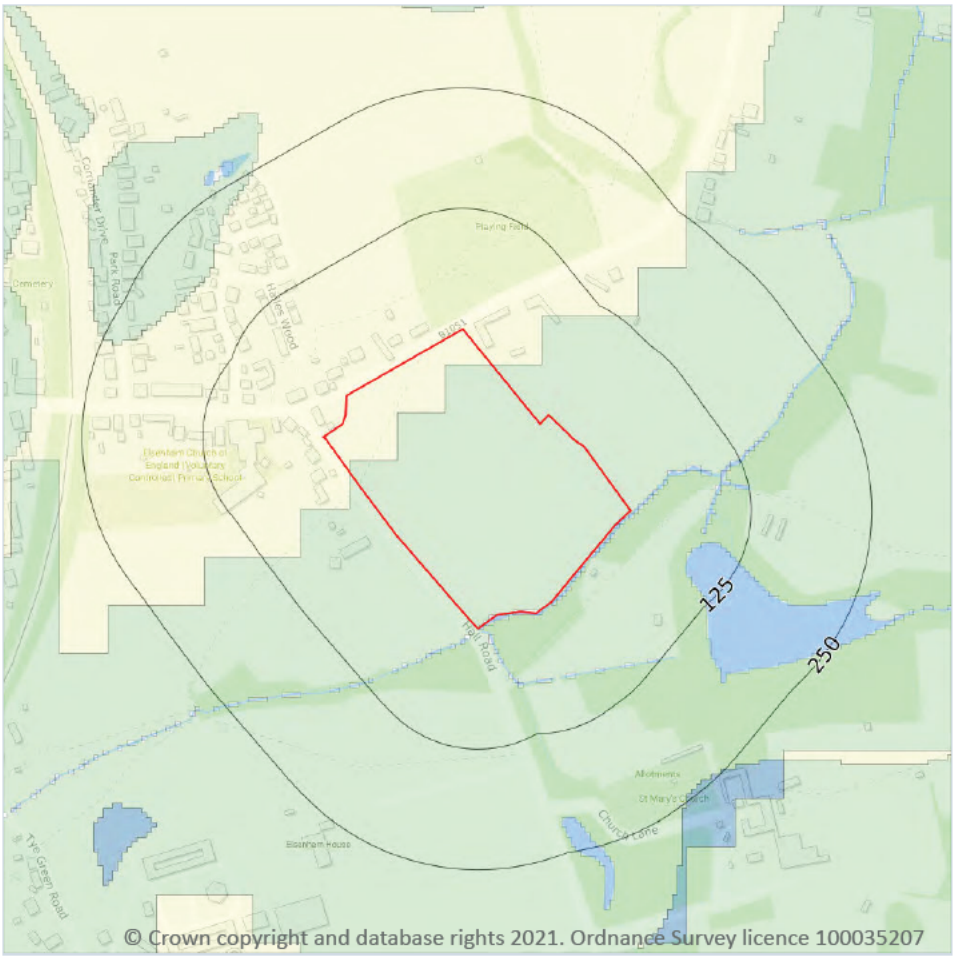
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Greater than 1.0m
1 in 250 year	Greater than 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.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

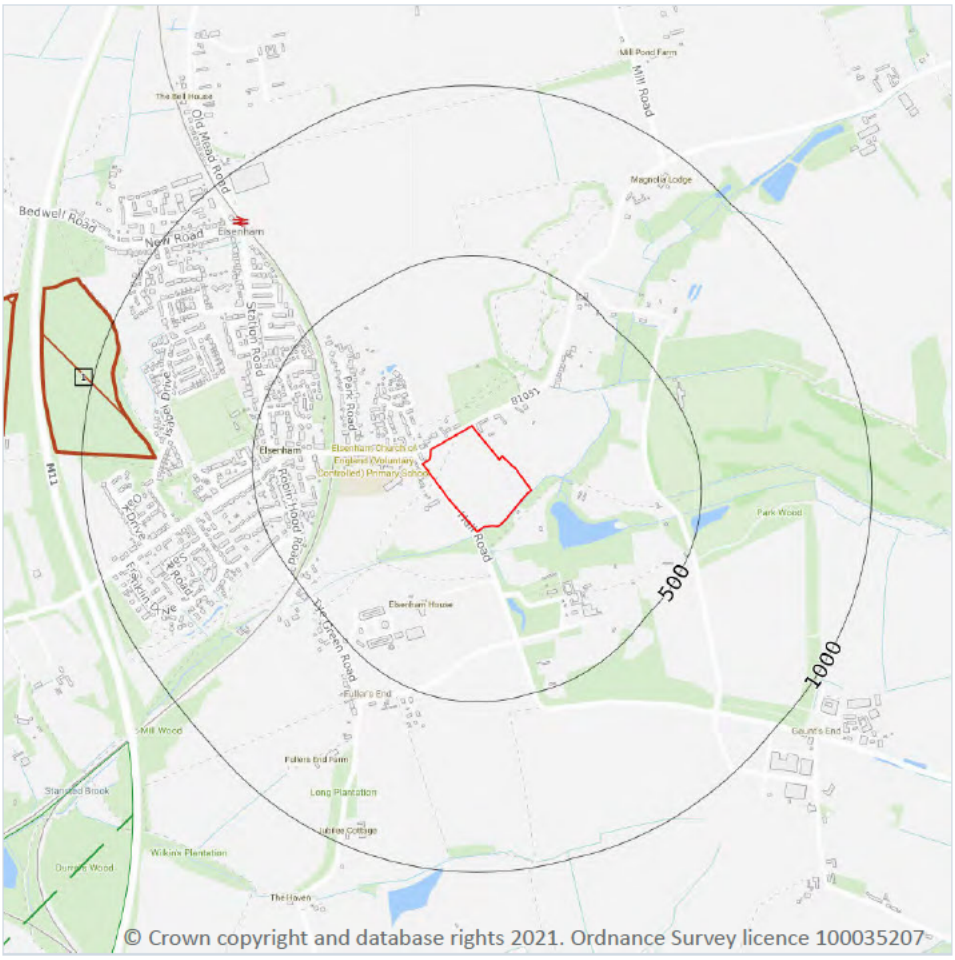
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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 61**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	2

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.

Features are displayed on the Environmental designations map on **page 62**

ID	Location	Name	Data source
-	1705m E	Elsenham Woods	Natural England

ID	Location	Name	Data source
-	1816m E	Elsenham Woods	Natural England

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

10.2 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.

10.3 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.

10.4 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.

10.5 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.

10.6 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.

10.7 Designated Ancient Woodland

Records within 2000m	4

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 62**

ID	Location	Name	Woodland Type
1	788m W	Alsa Wood	Ancient & Semi-Natural Woodland
3	1236m W	Unknown	Ancient & Semi-Natural Woodland
-	1713m E	Unknown	Ancient & Semi-Natural Woodland
-	1909m SE	Eastend Wood	Ancient & Semi-Natural Woodland

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

10.8 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.

10.9 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.

10.10 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.

10.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 62**

ID	Location	Name	Local Authority name
2	1182m SW	London	Uttlesford

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

10.12 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.

10.13 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.

10.14 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.

10.15 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.

10.16 Nitrate Vulnerable Zones

Records within 2000m	11

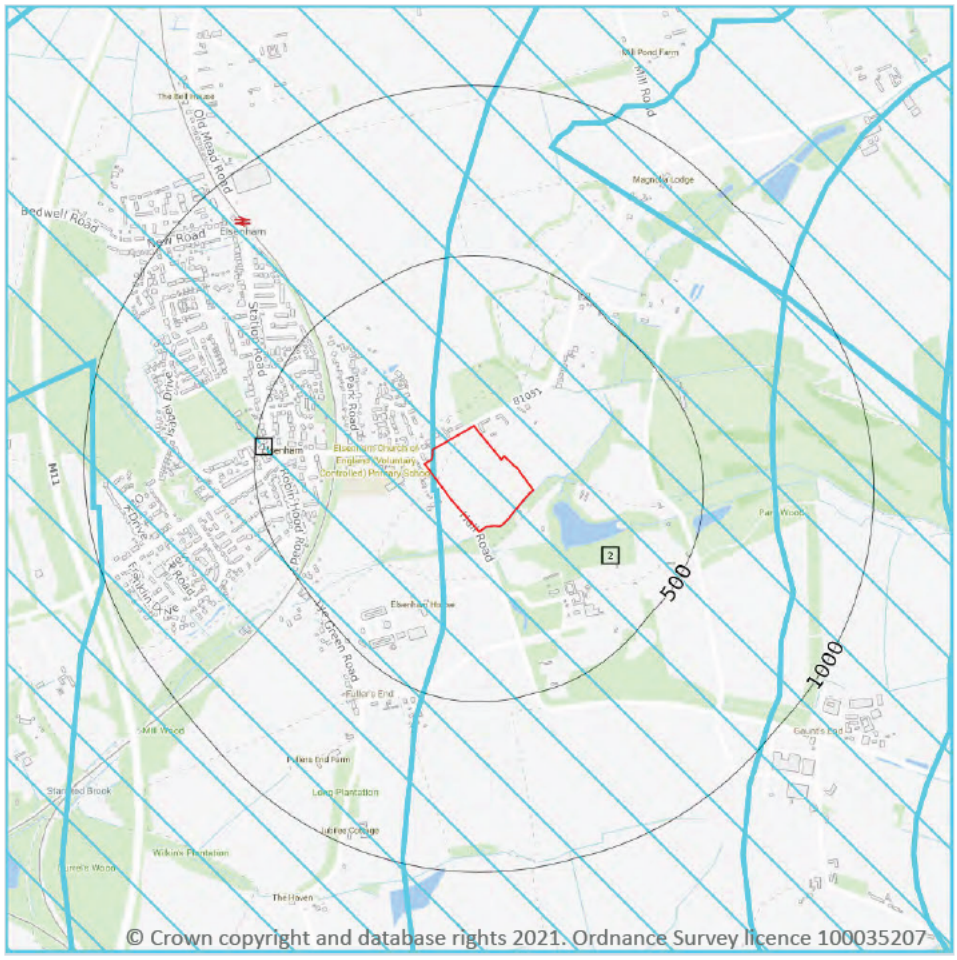
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**LEE NVZ**	**Surface Water**	**S443**	**Existing**

Location	Name	Type	NVZ ID	Status
On site	**LEE NVZ**	**Surface Water**	**S443**	**Existing**
118m SW	LEE NVZ	Surface Water	S443	Existing
136m S	LEE NVZ	Surface Water	S443	Existing
154m NW	Anglian Chalk	Groundwater	G71	Existing
267m NW	Ely Ouse and Cut-off channel NVZ	Surface Water	S390	Existing
551m NW	Stansted Mountfitchet	Groundwater	G152	Existing
645m W	Stansted Mountfitchet	Groundwater	G152	Existing
681m N	Anglian Chalk	Groundwater	G71	Existing
681m N	Ely Ouse and Cut-off channel NVZ	Surface Water	S390	Existing
1983m SE	Roding (Cripsey Brook to Loxford Water) NVZ	Surface Water	S441	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

10.17 SSSI Impact Risk Zones

Records on site	2

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 68**

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. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location)**
2	On site	**Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). 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. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location) Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	2

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 68**

ID: -
Location: 1705m E
SSSI name: Elsenham Woods
Unit name: Pledgdon Wood
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	13/03/2017

ID: -
Location: 1816m E
SSSI name: Elsenham Woods
Unit name: Eastend Wood
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	05/08/2009

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

11 Visual and cultural designations

11.1 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.

11.2 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.

11.3 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.

11.4 Listed Buildings

Records within 250m	15

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.

Features are displayed on the Visual and cultural designations map on **page 71**

ID	Location	Name	Grade	Reference Number	Listed date
A	14m NE	Dovecote To South West Of Elsenham Place, Elsenham, Uttlesford, Essex, CM22	II	1112338	26/11/1951
A	14m NE	Barns To West Of Elsenham Place Fronting Road, Elsenham, Uttlesford, Essex, CM22	II	1171188	22/02/1980
B	17m W	Tinkers Cottage, Elsenham, Uttlesford, Essex, CM22	II	1305747	22/02/1980
B	21m W	5, The Cross, Elsenham, Uttlesford, Essex, CM22	II	1112368	03/07/1974
B	25m NW	1 And 2, The Cross, Elsenham, Uttlesford, Essex, CM22	II	1322511	03/07/1974

ID	Location	Name	Grade	Reference Number	Listed date
1	27m W	The Stores And House, Elsenham, Uttlesford, Essex, CM22	II	1322535	22/02/1980
2	32m NW	The Lodge, Elsenham, Uttlesford, Essex, CM22	II	1391101	17/06/1982
B	37m NW	Village Hall Cottage, Elsenham, Uttlesford, Essex, CM22	II	1305746	03/07/1974
3	41m SW	Old Vicarage, Elsenham, Uttlesford, Essex, CM22	II	1112334	22/02/1980
4	50m W	The Crown Inn, Elsenham, Uttlesford, Essex, CM22	II	1305698	03/07/1974
5	76m NE	Elsenham Place, Elsenham, Uttlesford, Essex, CM22	II	1112337	26/11/1951
C	141m NE	Range Of Thatched, Timber Framed Outbuildings, And Barn To West Of Gardeners Cottage, Elsenham, Uttlesford, Essex, CM22	II	1112339	22/02/1980
C	161m NE	Gardeners Cottage, Elsenham, Uttlesford, Essex, CM22	II	1171192	22/02/1980
6	200m W	Gilbey Memorial, Elsenham, Uttlesford, Essex, CM22	II	1305700	09/10/1973
7	250m SE	Church Of St Mary The Virgin, Elsenham, Uttlesford, Essex, CM22	I	1112335	21/02/1967

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

11.5 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 English Heritage, Cadw and Historic Environment Scotland.

11.6 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 English Heritage, Cadw and Historic Environment Scotland.

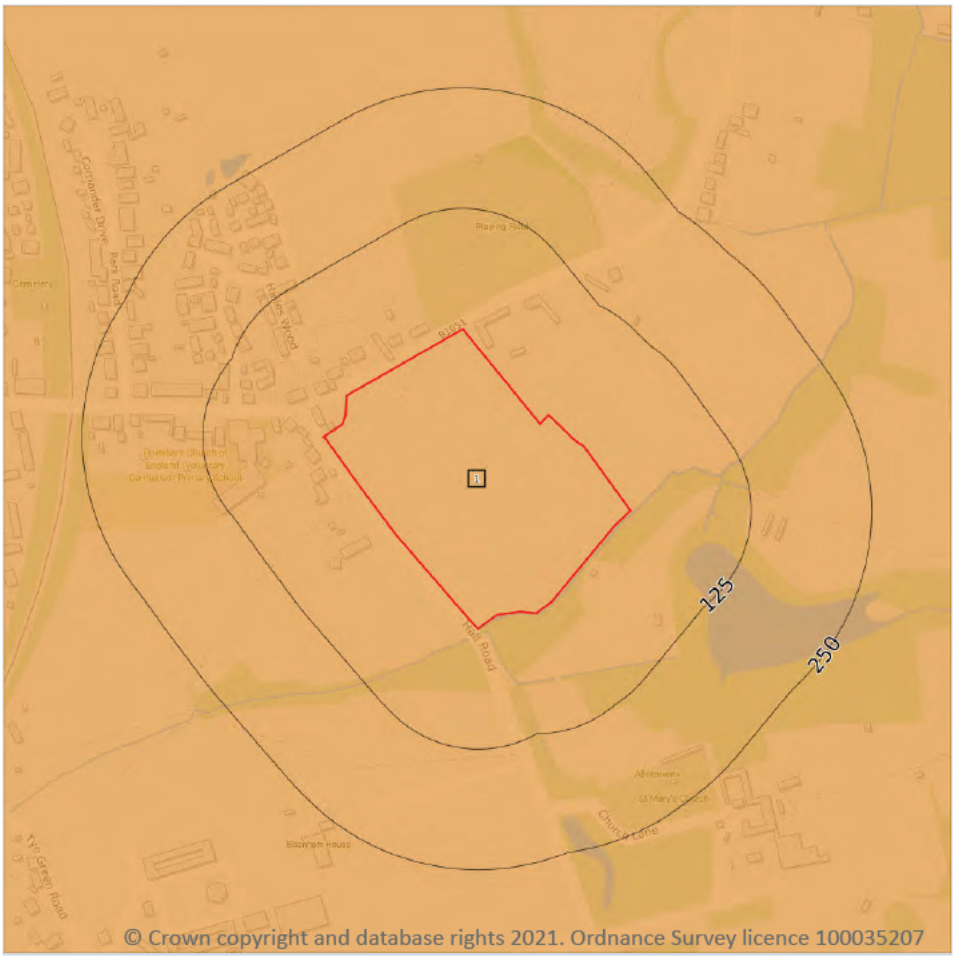
11.7 Registered Parks and Gardens

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 English Heritage, Cadw and Historic Environment Scotland.

12 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

12.1 Agricultural Land Classification

Records within 250m	1

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 75**

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.**

This data is sourced from Natural England.

12.2 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.

12.3 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.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

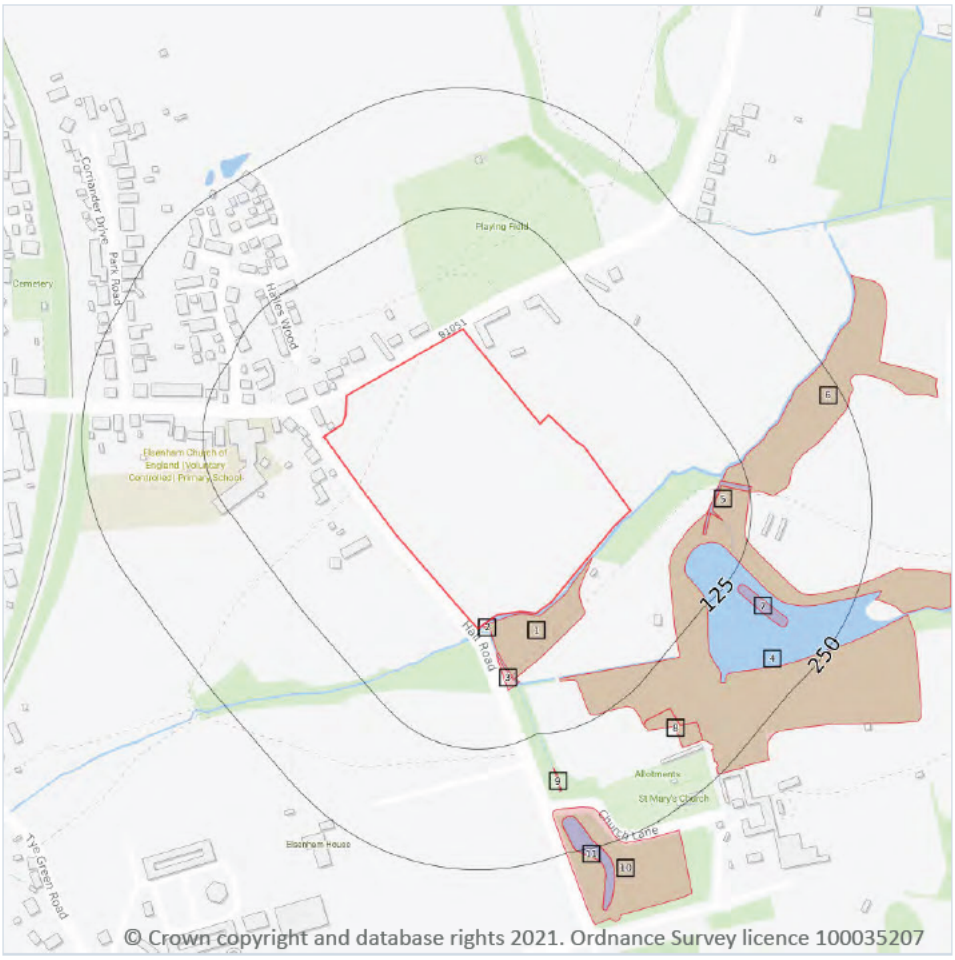
12.5 Countryside Stewardship Schemes

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.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	11

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

Features are displayed on the Habitat designations map on **page 77**

ID	Location	Main Habitat	Other habitats
1	2m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	2m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	32m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	60m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	78m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	100m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	137m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	157m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	162m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	204m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	213m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 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.

13.3 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.

13.4 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.

14 Geology 1:10,000 scale - Availability

14.1 10k Availability

Records within 500m	1

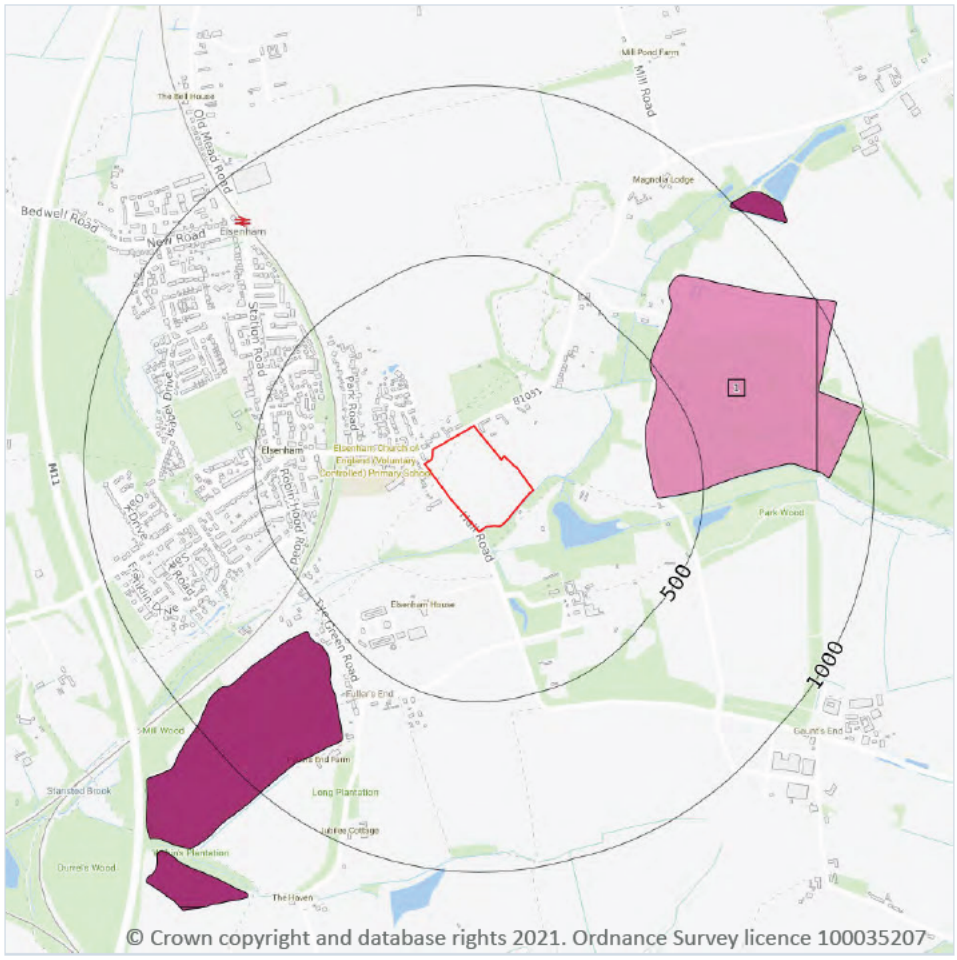
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 80**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TL52NW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



14.2 Artificial and made ground (10k)

Records within 500m	1

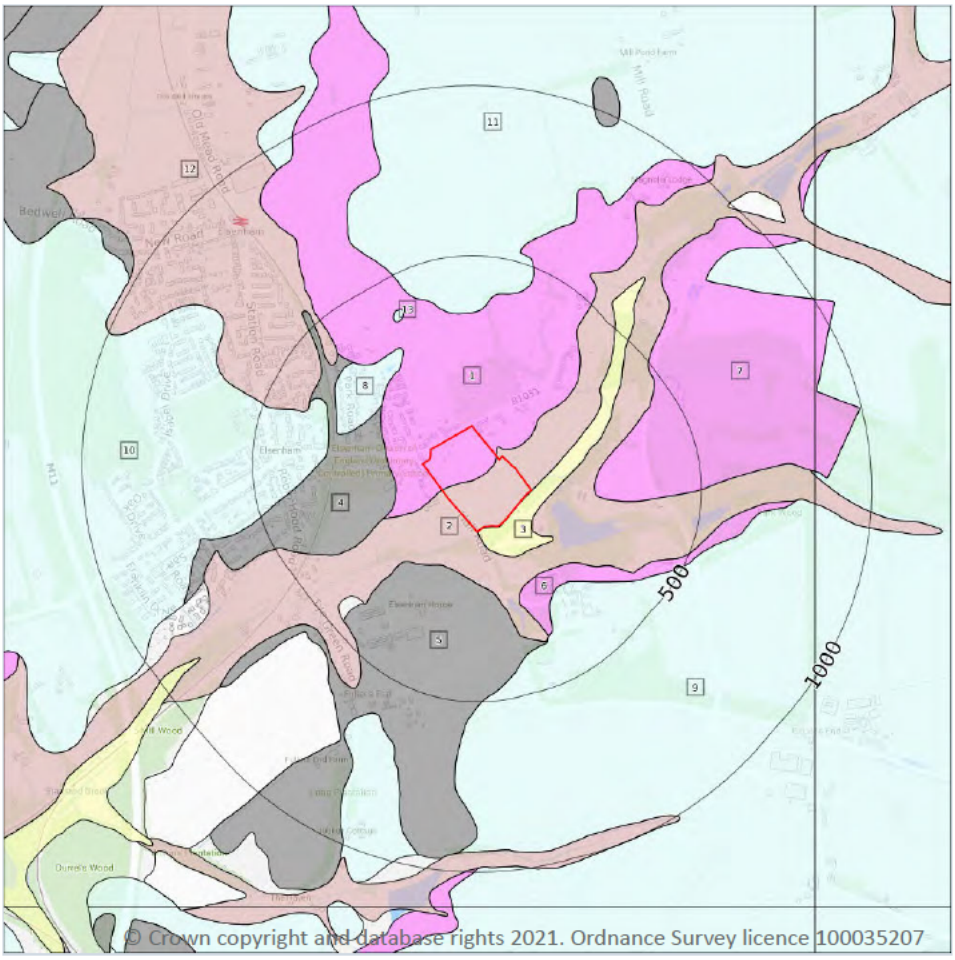
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 81**

ID	Location	LEX Code	Description	Rock description
1	347m E	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	13

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 82**

ID	Location	LEX Code	Description	Rock description
1	On site	KGCA-XSV	Kesgrave Catchment Subgroup - Sand And Gravel	Sand And Gravel
2	On site	HEAD-DMTN	Head - Diamicton	Diamicton
3	On site	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	94m SW	GFDMP-SVC	Glaciofluvial Deposits, Mid Pleistocene - Sand, Gravelly Clayey (unlithified Deposits Coding Scheme)	Sand, Gravelly, Clayey
5	133m SW	GFDMP-SVC	Glaciofluvial Deposits, Mid Pleistocene - Sand, Gravelly Clayey (unlithified Deposits Coding Scheme)	Sand, Gravelly, Clayey
6	184m SE	KGCA-XSV	Kesgrave Catchment Subgroup - Sand And Gravel	Sand And Gravel
7	185m E	KGCA-XSV	Kesgrave Catchment Subgroup - Sand And Gravel	Sand And Gravel
8	194m NW	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton
9	248m SE	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton
10	282m W	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton
11	332m N	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton
12	373m NW	HEAD-DMTN	Head - Diamicton	Diamicton
13	374m NW	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

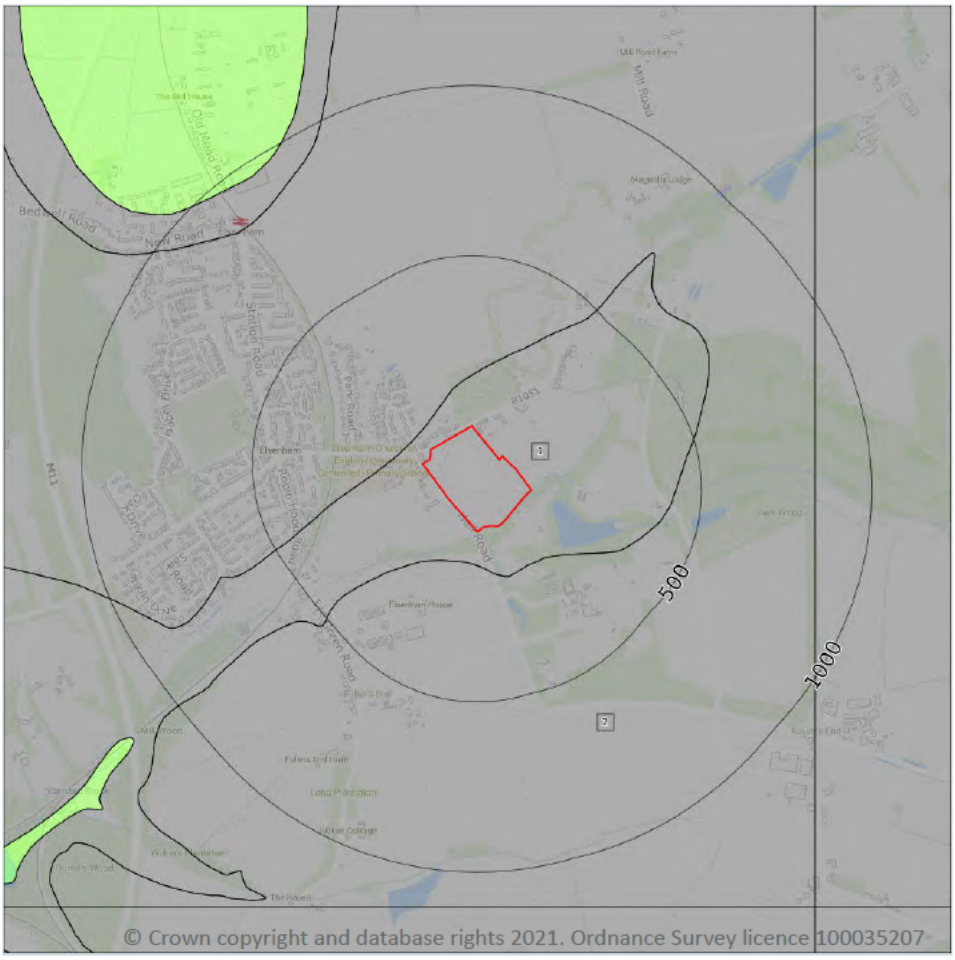
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m **2**

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 84**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**TALM-CLSA**	**Thanet Sand Formation And Lambeth Group (undifferentiated) - Clayey Sand**	**Paleocene Epoch**
2	57m NW	LC-CLSISA	London Clay Formation - Clay, Silt And Sand	Eocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.