



Title **Preliminary Risk Assessment Report**

Project No. **21-68**

Site Name **Easton Community Centre**

Client Name **Easton Parish Council**

Date **August 2021**



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QA	Report written by James Harrison on 20 <sup>th</sup> August 2021, checked and authorised for issue on 26 <sup>th</sup> August 2021.
Status	Preparation/Draft/ <b>Final</b> /Amended

# Easton Community Centre

## Non-Technical Summary & Further Investigation

A report on contamination was required as part of the planning process for the proposed new Easton Community Centre on an agricultural field to the south of the village.

This report is in three parts:

- A – Introduction
- B – Evidence
- C – Conceptual Models & Risk Assessment

Based on the evidence transferred to the conceptual model the overall risk from soil contamination aspects at the development is assessed to be low for human health/property.

Contamination is not likely to be present in soil under the land, but there remains uncertainty due to the possibility of unknown/unrecorded activities, and the risk is still considered to be low.

Development introduces sensitive receptors to low contamination risk.

Land stability is also considered and found to be low risk.

It is expected that this report would be submitted to the local planning authority in support of a planning application.

Ground investigation is recommended to confirm/validate low risk by a proportionate amount of soil sampling and analysis. At this stage there is no requirement for ground gas or groundwater assessment.

***It is advised the developer team becomes familiar with latest guidance on dealing with contaminated land <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm/lcrm-before-you-start> (LCRM). No two sites are the same, and guidance covers all types of land condition and appears complex for simple projects. Projects progressed to design stages (and viability) ahead of LCRM process could subsequently be discovered to be uncompliant. Local planning authorities may be at different stages of transition to adopting LCRM process and industry transition to new guidance represents a commercial risk.***

# Part A – Contract & References

## 1. Proposal, Authorisation & Introduction

- 1.1 An offer of service was made by 4D Geo Ltd (4D) on 16<sup>th</sup> August 2021 to Easton Parish Council via WTD Ltd who are the planning consultant/architect. The proposal was for a limited scope Preliminary Risk Assessment (PRA) report on the new Easton Community Centre at an agricultural field to the south of the village.
- 1.2 The proposal was accepted, and the works instructed by email. Report limitations are in Appendix A.
- 1.3 The site comprised the west of an open agricultural field east of Marlingford Road and opposite Buxton Close. The site was approximately 30m wide and 70m long including the open space, total area 0.26Ha and elevation 46m above Ordnance Datum (maOD). The site location is shown in Figure 1 from <https://www.openstreetmap.org>.

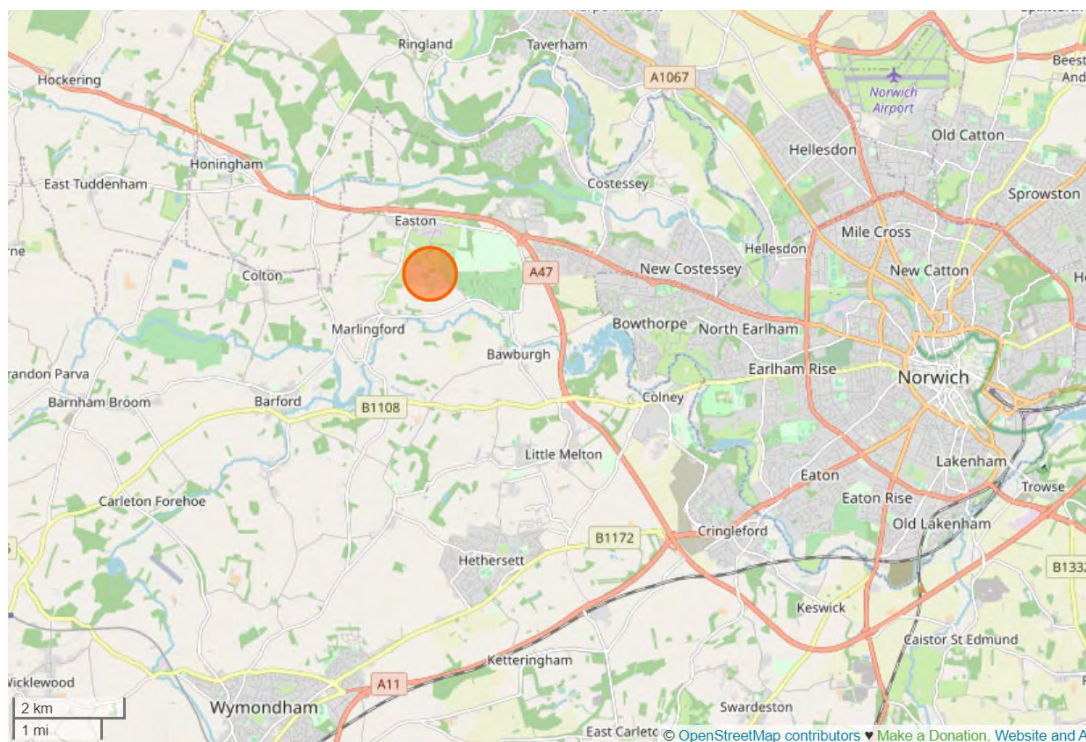


Figure 1

- 1.4 The development comprises a community centre to the north and an open space to the south as shown in Figure 2.



Figure 2

- 1.5 Planning permission is being applied for to South Norfolk Council, but the site is part of a wider masterplan for mixed development in the village.

## 2. Objectives

- 2.1 Primary objective: to provide a minimum standard compliant report in support of a planning application for the new scheme.
- 2.2 Secondary objective: the report may provide useful information with respect to planning, design and construction of the wider development particularly for land stability.
- 2.3 To minimise report size and complexity, web links have been included to guidance used in the preparation of this report.

### 3. Risk Assessment Methodology & the Conceptual Model (CM)

- 3.1 Government guidance on all stakeholder responsibilities is provided at <https://www.gov.uk/contaminated-land>. For developers, contaminated land is a part of the planning regime and local authorities may require reports on brownfield or greenfield land as part of planning applications Land Condition: Risk Management (LCRM) <https://www.gov.uk/guidance/land-contamination-how-to-manage-the-risks>. Requirements vary between districts and local planning authorities (LPAs) may publish guidance. In most cases a PRA report is required (also known as a Phase 1 desk study, Tier 1 or Stage 1) <https://www.gov.uk/guidance/land-contamination-how-to-manage-the-risks/stage-1-risk-assessment>.

Although not normally raised by the LPA, land stability may also be material in planning <https://www.gov.uk/guidance/land-stability>.

- 3.2 The current relevant reference on PRA desk study is British Standard BS10175:2011+A1:2013 Code of practice for investigation of potentially contaminated sites, and Environment Agency publication CLR11 Model Procedures for the management of land contamination. Other documents may be used including Department of the Environment Industry Profiles and locally relevant researches. Where applicable for residential development, relevant warranty requirements are stated in NHBC Standards Chapter 4.1 Land quality – managing ground conditions.
- 3.3 Desk study practice for engineering is covered in British Standard BS 5930:2015 Code of practice for site investigations and in British Standard BSEN1997-2:2007 Eurocode 7: Geotechnical Design – Part 2: Ground investigation and testing.
- 3.4 Report specific risk assessment tool details are in Appendix B.
- 3.5 A proportionate technical position is taken where no significant potentially contaminative current or historical land use is suspected. A walkover undertaken by the report writer is recorded in site photographs copied to Appendix C and a site specific Groundsure report has been used for data and copied in Appendix D. A checklist and summary of data is in Appendix E.
- 3.6 Information obtained is used to:
- Interpret historical, archived and current information to establish the location of previous site activities
  - Understand the environmental setting of the site
  - Identify areas or zones that contain distinct and different types of contamination
  - Identify pollutant linkages using a source-pathway-receptor (SPR) approach
  - Develop an outline conceptual model (CM)
  - Scope out the likelihood of needing an appropriate site investigation to determine the extent of contamination if you progress to the next tier or stage



- 3.7 The SPR and CM are derived using a standard set of risk assessment tools and the output is based on matrix of hazard/event frequency against consequence (high-low). Plans and sections may also be included as part of the CM.
- 3.8 The SPR pollutant linkages comprise
- **Sources** – contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution
  - **Pathways** – route by which a receptor is or could be affected by a contaminant
  - **Receptors** – something that could be adversely affected by a contaminant, for example a person, controlled waters, an organism, an ecosystem, buildings, crops or animals

The terms source, pollutant and contaminant have the same meaning.

- 3.9 A data provider is relied on for some evidence for the risk assessment as detailed in the Groundsure Enviro + Geo Insight report contained in Appendix D. Groundsure also supply the Ordnance Survey maps in Appendix D. The data checklist Appendix E is adapted from .gov.uk web page.
- 3.10 The completed PRA report is used by the developer in support of an application for planning permission. Uncertainty is recognised due to the preliminary nature of this risk assessment and the recommendations for further work where applicable.

## Part B – Evidence

### 4. Walkover and Desk Study

#### 4.1 Walkover (Sources: reconnaissance, internet research)

- 4.1.1 A walkover was undertaken on 17<sup>th</sup> August 2021. Access to the field was not possible and observations were made from the highway. The relevant features identified during the walkover are shown in the Appendix photographs and are described below.
- 4.1.2 The site was part of an open grassed field of apparent unused pasture land. The west boundary was with Marlingford Road including verge and hedge/trees, curving down onto Hall Road at the south. Off Marlingford Road to the west was a small residential development in Buxton Close. The north and east boundary was with the rest of the field. North of the field was the existing St Peters C of E Primary School, Easton (Trinity Federation of Church Schools) with the rest of the village further north. A small group of residential property occupies the south junction of Hall Road at Marlingford Road and there are overhead lines in the verge. No other services were recorded. No ditches were observed at boundaries.
- 4.1.3 Current access through hedges would be through a metal gate from Hall Road, opposite Upper Farm buildings to the south east (and downhill by a few metres from the site).
- 4.1.4 By observation the land appears approximately at the peak of the local topographic area and whilst generally flat and level it may be slightly domed, then the field beyond slopes eastwards into a shallow dry valley.
- 4.1.5 There was no hardstanding or any other notable above ground features recorded.
- 4.1.6 There were no observations of fuel/oil tanks, hazardous material stores, fly-tipping or spoil heaps. No energy facilities were seen on site.
- 4.1.7 There were no indications of archaeology, or ecology receptors but these details are expected to be covered by other consultants.
- 4.1.8 Off-site, the walkover did not discover any features directly relevant to this contaminated land report. Upper Farm is too far away to be relevant and is downhill/downstream.
- 4.1.9 The site occupies a low hill feature between the River Tud to the north, and the River Yare to the south.



## **4.2 Relevant Current & Historic Information (Sources: Groundsure report, Ordnance Survey maps, anecdotal evidence)**

- 4.2.1 Ordnance Survey mapping infers the land has had no industrial use other than assumed agricultural pasture. This is the same for the full period of the records. A Licensed pollutant release (Part A(2)/B) record is shown on the site for a Waste Oil Burner 0.4 MW to M & C Agricultural (Limited) but this is expected to refer to Upper Farm and mislocated on the Groundsure plan due to postcode.
- 4.2.2 The Groundsure report lists recent/current industrial land uses outside the site boundary but none are believed significant to affect the site.
- 4.2.3 The Groundsure report lists sparse historic land uses outside the boundary none of which are considered to be relevant. Upper Farm was present on the field north of Hall Road (as well as the current farm south of Hall Road) but building and other evidence has been demolished and removed. Records show three ponds and a well which have all been filled/covered the land does not look different to the rest of the field.
- 4.2.4 There is no known record for asbestos burials which were allowed in agriculture until relatively recently. There is a record of buried carcasses; from foot and mouth outbreaks dated approximately 1960 in the field around 100m east of the site east boundary. Nearly 60 years have passed since these carcass burials and no residual source is believed to remain able to migrate to the proposed community centre site. A report on the 2001 outbreak and subsequent burials was published recently <https://www.gov.uk/government/publications/science-advisory-council-2001-foot-and-mouth-outbreak-carcass-burial-report>.
- 4.2.5 The British Geological Survey (BGS) mapping shows the site is underlain by bedrock of Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) - Chalk. Sedimentary Bedrock formed approximately 72 to 94 million years ago in the Cretaceous Period. Local environment previously dominated by warm chalk seas. These sedimentary rocks are shallow-marine in origin. They are biogenic and detrital, generally comprising carbonate material (coccoliths), forming distinctive beds of chalk. Superficial deposits are Sheringham Cliffs Formation - Sand And Gravel. Superficial Deposits formed up to 3 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions. These sedimentary deposits are glacial in origin. They are detrital, created by the action of ice and meltwater, they can form a wide range of deposits and geomorphologies associated with glacial and inter-glacial periods during the Quaternary.

The field east of the site in the shallow dry valley is shown to be underlain by clay.

Archive borehole information from the BGS can be used to create a section for the ground model of the site.

- 4.2.6 There is a very low potential for sub-structures to be present from previous development.
- 4.2.7 According to <https://zeticauxo.com/downloads-and-resources/risk-maps/> the site is within an area considered at low risk from WWII bomb strikes.
- 4.2.8 According to Groundsure, the site is in a less than 1% property affected radon area, and where no radon protection measures are required.
- 4.2.9 The site is in source protection zone 3 (SPZ3) total catchment, Secondary A superficial aquifer overlying principal aquifer. There are groundwater abstractions surface and borehole in the wider area around the site but none are believed to be relevant for this assessment. There may be private water wells locally including at Upper Farm, and in Easton. Groundwater flow is assumed to be generally south towards the River Yare. Groundwater levels may be at about 15maOD in the chalk aquifer.
- 4.2.10 Groundwater vulnerability is high. Perched water is not expected. Unsaturated zone approximately 30m deep.
- 4.2.11 There was no history of pollution incidents or regulatory action on the site. No records of permits, licences or authorisations were believed to be relevant on site or in the wider area. There are relevant SSSI designations near Easton.
- 4.2.12 Other information including flood risk is in the Groundsure report but not used for this PRA report.
- 4.2.13 Extra information on land contamination was provided via the landowner/client. Information was supplied on land contamination off-site to the east including the carcass burial, former Upper Farm location (north of Hall Road opposite current Upper Farm) and sewage works off Bawburgh Road. Archaeology geophysics reveals the extent of the former Upper Farm from magnetic anomalies. None of these are considered to affect the site. The extra information is expected to be part of public record via the planning portal.

## Part C – Conceptual Model

### 5. Contamination SPR Identification

- 5.1 Potential sources of historic contamination on site are considered to be limited there is no Industry Profile and no Key Contaminants list. Agrochemicals may have been used on the field but there is no evidence to suggest storage or other events that would lead to unacceptable concentrations at this stage. The site appears to be uphill/upstream from plausible mobile contaminants located to the east.

Soil contaminants may be present from unrecorded past uses if localised small pits/infilling or if bulk storage has occurred, but overall contaminant concentrations are expected to be near baseline, widespread and not significant.

Groundwater is not considered a relevant source.

Ground gas is not considered a relevant source.

- 5.2 Pathways are geology/soil including made ground, direct contact via skin, pore spaces soil/buildings infiltration, air & ingestion or inhalation of molecules/particles. Groundwater is not considered a pathway.
- 5.3 Receptors are development linked human health for future users of the community centre and whilst the development type is probably closest to commercial industrial, residential with plant uptake is adopted to be robust for future use of the space at this time. Groundwater is a receptor but there is a thick unsaturated zone. Ground aggressive to buildings is not expected to be present.
- 5.5 Although pathways and receptors should be fully identified by this report, additional sources may be discovered during ground investigation & development. It is assumed any unexpected asbestos containing materials will be discovered and removed by a suitably qualified contractor.
- 5.6 SPR Links (definitions in Appendix B)

Sources	Pathways	Receptors	Risk
Contaminated soil	Geology / soil infiltration	Groundwater-aquifer	Low
Contaminated soil	Direct contact, air, ingestion & inhalation	Groundworkers & off-site residents	Low
Contaminated soil, ground gas	Direct contact, air, ingestion & inhalation	Community centre and open space	Low

- 5.7 Discovery of new information may affect the risk assessment in 5.6 and there remains a small amount of uncertainty.

- 5.8 The site has a low risk of soil contamination from past agricultural land use. The following recommendations are made.
- 5.8.1 Take a proportionate number of soil samples from shallow depth (ground level to 0.5m depth), check for untypical materials in soil, and analyse for a range of common contaminants including asbestos.
- 5.8.2 Agrochemicals are not recommended to be included for testing at this stage.
- 5.8.3 Pathogens in mineral soil are not recommended for testing as they can be endemic and there are no appropriate threshold concentrations for health protection.

## **6. Engineering/Geotechnical Aspects – Land Stability**

- 6.1 Land stability may be considered as part of planning but also shared across various regulators including Building Control and warranty providers for instance. The developer can optimise land stability by design of buildings to minimise risk, undertaking investigations and by engineering design of land and foundations.
- 6.2 Norwich is known for land stability problems due to the presence of soluble bedrock of chalk and natural or mineral extraction geohazards. Geohazards are generally located at locations favourable for formation and triggered by events concerning water flow. Easton is not well known for natural geohazards connected to soluble rock but there are records of subsidence events in the village. Mining is also a hazard and mineral extraction (and backfilling) is recorded north and east of the site in the village, and extensively north of the A11 dual carriageway at Longwater.
- 6.3 The proposed development is not expected to be affected by geohazards and traditional foundations are expected to be suitable. A proportionate ground investigation is recommended including penetration testing to verify assumptions. Infiltration devices should be possible in dry sand geology but should be located at 5-10m distance from structures.

END OF REPORT

# Appendix A - Limitations to Reports

- A1 The content of this report represents the outcome of a standard process undertaken by an experienced practitioner using skill & care to the methodology described. Absence of hazardous materials or conditions cannot be assured between sample locations or due to changing circumstances before and since the report's limited data set was sourced. 4D GEO LTD cannot be responsible for errors in third party data supplied in making the report and subsequent judgements. This report was made for the client alone and third parties use the information and judgements contained at their own risk.
- A2 Ecology risks may be referred to in this report, especially protected species habitats and invasive weeds. It is assumed the client relies on other consultants for identification and implications of these aspects.
- A3 Archaeological or heritage sites may be referred to in this report but it is assumed the client relies on other consultants for identification and implications of these aspects.
- A4 Asbestos may be referred to in the report either in buildings or in soil but the client is advised to have a further report from a qualified asbestos surveyor before making property transaction and development decisions.
- A5 The report author is an Engineering Geologist (B.Eng), a Fellow of the Geological Society of London (FGS), a Member of the Chartered Institution of Wastes Management (MCIWM) and is No 300 on the Register of Qualified Persons for the CL:AIRE Definition of Waste: Development Industry Code of Practice (DoW CoP)
- A6 Practitioner Membership of AGS (Association of Geotechnical & Geoenvironmental Specialists) was achieved on 29th September 2020.

## Appendix B - Risk Matrix Assessments

- B1 This SPR risk matrix is simplified to allow a straightforward subjective/qualitative judgement of linkages and further investigation recommendations. A more sophisticated risk assessment may be possible using more resources than allowed for this report stage.

Frequency	Consequence			
	4	3	2	1
4	Very high	High	Medium	Medium/low
3	High	Medium	Medium/low	Low
2	Medium	Medium/low	Low	Very low
1	Medium/low	Low	Very low	Very low

### B2 Risk Classification Examples & Definitions

Very high – urgent action recommended before further risk assessment

High – further risk assessment with remediation & mitigation

Medium – further risk assessment with mitigation potential

Low – further risk assessment, outcome uncertain or mitigation

Very low – no further risk assessment at this stage

- B3 Pathways will be specific to sources and receptors; ingestion, inhalation, dermal contact for human health receptors, infiltration and migration via permeable strata or the unsaturated zone for groundwater contamination, gas migration of volatile hydrocarbons into buildings and direct contact and uptake by plants. Sources may link to multiple receptors by more than one pathway, but without a link there is not a risk. Contamination on a site could be acceptable if there is no link, or the link is subsequently broken. Conversely, new links may be made over time by changing land circumstances like physical development or biodegradation of organic materials. While source removal is the most robust remediation, it may be least sustainable. Retaining a source usually requires further risk assessment and mitigation such as a cover / barrier system. Some sources are not possible to retain such as asbestos in buildings.

# **Appendix C – Site Photographs**



name:	James Harrison	report group:	Easton
email:	james@4dgeo.co.uk	title:	Walkover
phone:	07881935124	created:	17/08/2021, 15:43
company:	4D Geo Ltd	modified:	19/08/2021, 16:20
		item count:	7

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(1)



created: 17/08/2021, 15:59  
modified: 19/08/2021, 11:46  
taken by app: Yes  
description: View south from verge on Marlingford Road with residential property on Hall Road in background

(2)



created: 17/08/2021, 15:44  
modified: 19/08/2021, 11:42  
taken by app: Yes  
description: Marlingford Road from Buxton Close with approximate proposed site entrance location through hedge

(3)



created: 17/08/2021, 15:44  
modified: 19/08/2021, 11:42  
taken by app: Yes  
description: Overhead lines at the south junction with Hall Road leading east.

(4)



created: 17/08/2021, 15:45  
modified: 19/08/2021, 11:43  
taken by app: Yes  
description: Junction to Hall Road

name:	James Harrison	report group:	Easton
email:	james@4dgeo.co.uk	title:	Walkover
phone:	07881935124	created:	17/08/2021, 15:43
company:	4D Geo Ltd	modified:	19/08/2021, 16:20
		item count:	7

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(5)



created: 17/08/2021, 15:46  
modified: 19/08/2021, 11:43  
taken by app: Yes  
description: View of site from south with school in distance

(6)



created: 17/08/2021, 15:47  
modified: 19/08/2021, 11:44  
taken by app: Yes  
description: Upper Farm buildings south of Hall Road

(7)



created: 17/08/2021, 15:58  
modified: 19/08/2021, 11:45  
taken by app: Yes  
description: View of site from opposite Upper Farm

# **Appendix D – Groundsure Reports**

EASTON, NR9 5AD

## Order Details

**Date:** 19/08/2021  
**Your ref:** 21-68\_Easton\_Community\_Centre  
**Our Ref:** GS-8135999  
**Client:** 4D GEO LTD

## Site Details

**Location:** 613540 310554  
**Area:** 0.26 ha  
**Authority:** [South Norfolk District Council](#)



**Summary of findings**

p. 2 **Aerial image**

p. 8

**OS MasterMap site plan**

p.13 [groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">14</a>	<a href="#">1.1</a>	<a href="#"><u>Historical industrial land uses</u></a>	0	0	0	11	-
<a href="#">15</a>	<a href="#">1.2</a>	<a href="#"><u>Historical tanks</u></a>	0	0	0	2	-
<a href="#">15</a>	<a href="#">1.3</a>	<a href="#"><u>Historical energy features</u></a>	0	0	2	4	-
16	1.4	Historical petrol stations	0	0	0	0	-
<a href="#">16</a>	<a href="#">1.5</a>	<a href="#"><u>Historical garages</u></a>	0	0	0	2	-
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
<a href="#">18</a>	<a href="#">2.1</a>	<a href="#"><u>Historical industrial land uses</u></a>	0	0	0	14	-
<a href="#">19</a>	<a href="#">2.2</a>	<a href="#"><u>Historical tanks</u></a>	0	0	0	5	-
<a href="#">20</a>	<a href="#">2.3</a>	<a href="#"><u>Historical energy features</u></a>	0	0	5	4	-
20	2.4	Historical petrol stations	0	0	0	0	-
<a href="#">20</a>	<a href="#">2.5</a>	<a href="#"><u>Historical garages</u></a>	0	0	0	3	-
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	0	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">23</a>	<a href="#">3.7</a>	<a href="#"><u>Waste exemptions</u></a>	0	0	6	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">25</a>	<a href="#">4.1</a>	<a href="#"><u>Recent industrial land uses</u></a>	0	0	5	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
26	4.5	Sites determined as Contaminated Land	0	0	0	0	-



27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27	4.8	Hazardous substance storage/usage	0	0	0	0	-
27	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
27	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
<b>28</b>	<b>4.11</b>	<b><u>Licensed pollutant release (Part A(2)/B)</u></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>-</b>
28	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<b>28</b>	<b>4.13</b>	<b><u>Licensed Discharges to controlled waters</u></b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>-</b>
29	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
29	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
29	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>29</b>	<b>4.18</b>	<b><u>Pollution Incidents (EA/NRW)</u></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>-</b>
30	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
<b>31</b>	<b>5.1</b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>33</b>	<b>5.2</b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>34</b>	<b>5.3</b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
<b>35</b>	<b>5.4</b>	<b><u>Groundwater vulnerability- soluble rock risk</u></b>	Identified (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>36</b>	<b>5.6</b>	<b><u>Groundwater abstractions</u></b>	0	0	0	0	34
<b>44</b>	<b>5.7</b>	<b><u>Surface water abstractions</u></b>	0	0	0	0	14
<b>47</b>	<b>5.8</b>	<b><u>Potable abstractions</u></b>	0	0	0	0	14
<b>51</b>	<b>5.9</b>	<b><u>Source Protection Zones</u></b>	1	0	0	0	-
51	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
52	6.1	Water Network (OS MasterMap)	0	0	0	-	-



52	6.2	Surface water features	0	0	0	-	-
<b>53</b>	<b>6.3</b>	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
<b>53</b>	<b>6.4</b>	<b><u>WFD Surface water bodies</u></b>	0	0	0	-	-
<b>54</b>	<b>6.5</b>	<b><u>WFD Groundwater bodies</u></b>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
55	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
55	7.2	Historical Flood Events	0	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	None (within 50m)				
57	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
58	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
<b>59</b>	<b>9.1</b>	<b><u>Groundwater flooding</u></b>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>60</b>	<b>10.1</b>	<b><u>Sites of Special Scientific Interest (SSSI)</u></b>	0	0	0	0	2
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
<b>61</b>	<b>10.3</b>	<b><u>Special Areas of Conservation (SAC)</u></b>	0	0	0	0	1
62	10.4	Special Protection Areas (SPA)	0	0	0	0	0
62	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<b>62</b>	<b>10.7</b>	<b><u>Designated Ancient Woodland</u></b>	0	0	0	0	8
63	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
63	10.10	Marine Conservation Zones	0	0	0	0	0
63	10.11	Green Belt	0	0	0	0	0
64	10.12	Proposed Ramsar sites	0	0	0	0	0





64	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
64	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
64	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<b>65</b>	<b>10.16</b>	<b><u>Nitrate Vulnerable Zones</u></b>	2	0	1	0	3
<b>66</b>	<b>10.17</b>	<b><u>SSSI Impact Risk Zones</u></b>	3	-	-	-	-
<b>68</b>	<b>10.18</b>	<b><u>SSSI Units</u></b>	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
69	11.1	World Heritage Sites	0	0	0	-	-
69	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
69	11.3	National Parks	0	0	0	-	-
69	11.4	Listed Buildings	0	0	0	-	-
70	11.5	Conservation Areas	0	0	0	-	-
70	11.6	Scheduled Ancient Monuments	0	0	0	-	-
70	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>71</b>	<b>12.1</b>	<b><u>Agricultural Land Classification</u></b>	Grade 3 (within 250m)				
72	12.2	Open Access Land	0	0	0	-	-
72	12.3	Tree Felling Licences	0	0	0	-	-
<b>72</b>	<b>12.4</b>	<b><u>Environmental Stewardship Schemes</u></b>	1	1	2	-	-
72	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
74	13.1	Priority Habitat Inventory	0	0	0	-	-
74	13.2	Habitat Networks	0	0	0	-	-
74	13.3	Open Mosaic Habitat	0	0	0	-	-
74	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
<b>75</b>	<b>14.1</b>	<b><u>10k Availability</u></b>	Identified (within 500m)				
76	14.2	Artificial and made ground (10k)	0	0	0	0	-
<b>77</b>	<b>14.3</b>	<b><u>Superficial geology (10k)</u></b>	1	0	1	0	-

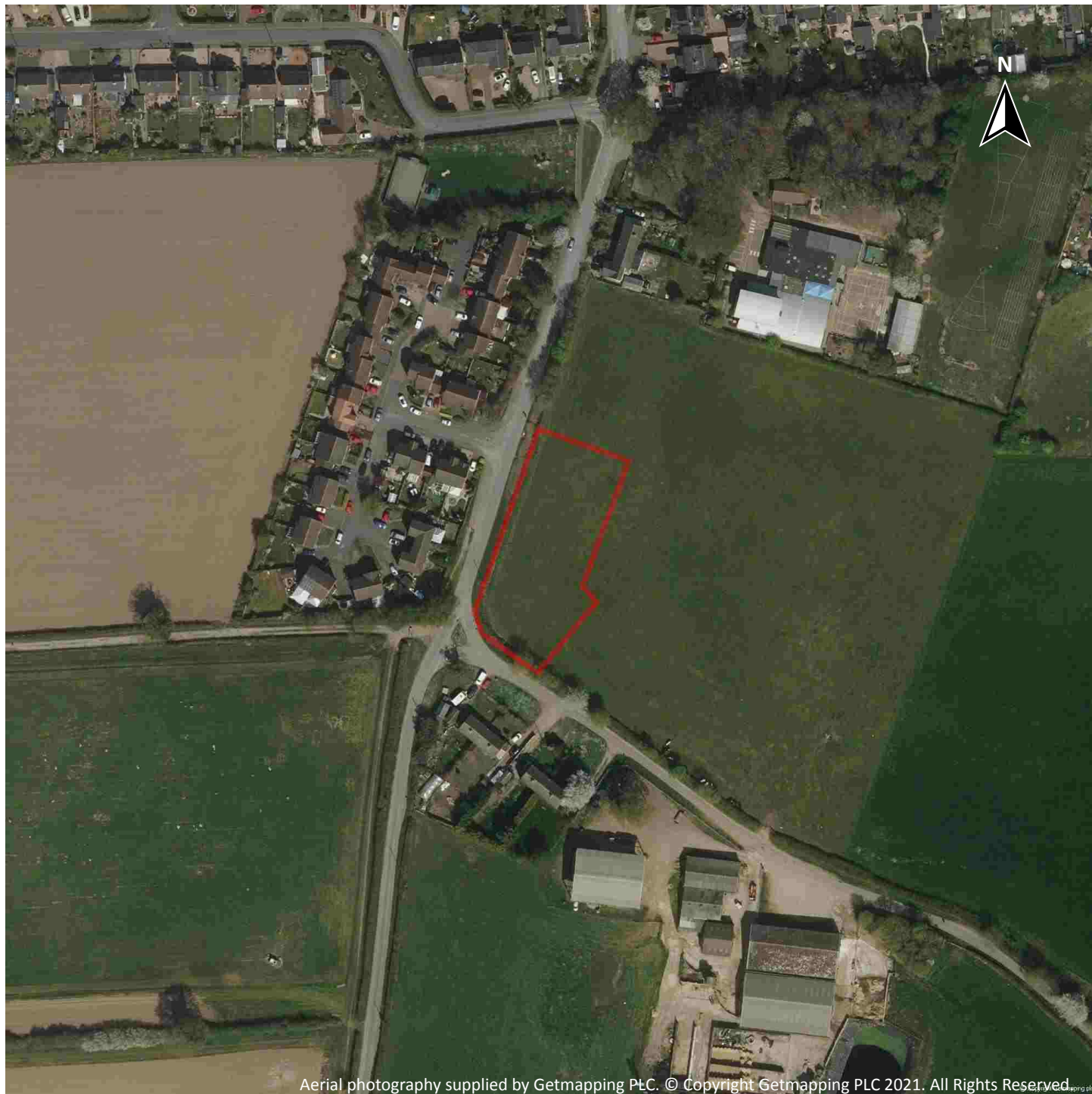
78	14.4	Landslip (10k)	0	0	0	0	-
<b>79</b>	<b>14.5</b>	<b><u>Bedrock geology (10k)</u></b>	1	0	0	0	-
80	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>81</b>	<b>15.1</b>	<b><u>50k Availability</u></b>	Identified (within 500m)				
82	15.2	Artificial and made ground (50k)	0	0	0	0	-
82	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<b>83</b>	<b>15.4</b>	<b><u>Superficial geology (50k)</u></b>	1	0	1	0	-
<b>84</b>	<b>15.5</b>	<b><u>Superficial permeability (50k)</u></b>	Identified (within 50m)				
84	15.6	Landslip (50k)	0	0	0	0	-
84	15.7	Landslip permeability (50k)	None (within 50m)				
<b>85</b>	<b>15.8</b>	<b><u>Bedrock geology (50k)</u></b>	1	0	0	0	-
<b>86</b>	<b>15.9</b>	<b><u>Bedrock permeability (50k)</u></b>	Identified (within 50m)				
86	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
<b>87</b>	<b>16.1</b>	<b><u>BGS Boreholes</u></b>	0	0	7	-	-
Page	Section	Natural ground subsidence					
<b>89</b>	<b>17.1</b>	<b><u>Shrink swell clays</u></b>	Negligible (within 50m)				
<b>90</b>	<b>17.2</b>	<b><u>Running sands</u></b>	Very low (within 50m)				
<b>91</b>	<b>17.3</b>	<b><u>Compressible deposits</u></b>	Negligible (within 50m)				
<b>92</b>	<b>17.4</b>	<b><u>Collapsible deposits</u></b>	Very low (within 50m)				
<b>93</b>	<b>17.5</b>	<b><u>Landslides</u></b>	Very low (within 50m)				
<b>94</b>	<b>17.6</b>	<b><u>Ground dissolution of soluble rocks</u></b>	Very low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
96	18.1	Natural cavities	0	0	0	0	-
97	18.2	BritPits	0	0	0	0	-
97	18.3	Surface ground workings	0	0	0	-	-
97	18.4	Underground workings	0	0	0	0	0
97	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<b>97</b>	<b>18.6</b>	<b><u>Non-coal mining</u></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
98	18.7	Mining cavities	0	0	0	0	0
98	18.8	JPB mining areas	None (within 0m)				
98	18.9	Coal mining	None (within 0m)				
99	18.10	Brine areas	None (within 0m)				
99	18.11	Gypsum areas	None (within 0m)				
99	18.12	Tin mining	None (within 0m)				
99	18.13	Clay mining	None (within 0m)				
<b>Page</b>	<b>Section</b>	<b>Radon</b>					
<b>100</b>	<b>19.1</b>	<b><u>Radon</u></b>	Less than 1% (within 0m)				
<b>Page</b>	<b>Section</b>	<b>Soil chemistry</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
<b>101</b>	<b>20.1</b>	<b><u>BGS Estimated Background Soil Chemistry</u></b>	<b>1</b>	<b>3</b>	-	-	-
101	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
101	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
<b>Page</b>	<b>Section</b>	<b>Railway infrastructure and projects</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
102	21.1	Underground railways (London)	0	0	0	-	-
102	21.2	Underground railways (Non-London)	0	0	0	-	-
102	21.3	Railway tunnels	0	0	0	-	-
102	21.4	Historical railway and tunnel features	0	0	0	-	-
102	21.5	Royal Mail tunnels	0	0	0	-	-
103	21.6	Historical railways	0	0	0	-	-
103	21.7	Railways	0	0	0	-	-
103	21.8	Crossrail 1	0	0	0	0	-
103	21.9	Crossrail 2	0	0	0	0	-
103	21.10	HS2	0	0	0	0	-



## Recent aerial photograph



Capture Date: 11/04/2020

Site Area: 0.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

Date: 19 August 2021



## Recent site history - 2017 aerial photograph



Capture Date: 28/08/2017

Site Area: 0.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

Date: 19 August 2021

## Recent site history - 2010 aerial photograph



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

Capture Date: 23/06/2010

Site Area: 0.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

Date: 19 August 2021



## Recent site history - 2006 aerial photograph



Capture Date: 11/09/2006

Site Area: 0.26ha





## Recent site history - 1999 aerial photograph



Capture Date: 25/06/1999

Site Area: 0.26ha



## OS MasterMap site plan

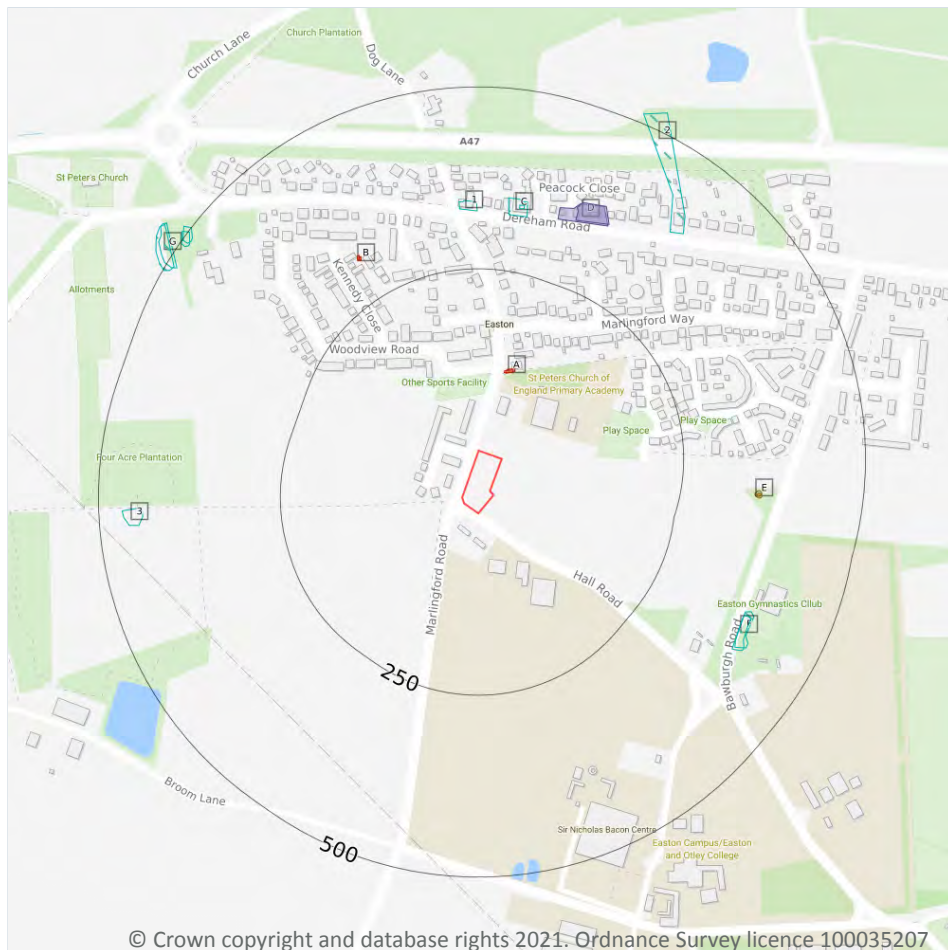


Site Area: 0.26ha





## 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

### 1.1 Historical industrial land uses

#### Records within 500m

11

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

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
C	327m N	Smithy	1905	2313566



ID	Location	Land use	Dates present	Group ID
1	330m N	Smithy	1882	2298974
C	337m N	Smithy	1956	2308518
F	382m SE	Gravel Pit	1905 - 1950	2314469
F	382m SE	Sand Pit	1956	2300065
2	388m NE	Timber Yard	1975	2299204
3	440m W	Unspecified Disused Pit	1975	2301204
G	485m NW	Unspecified Pit	1905 - 1950	2313096
G	488m NW	Unspecified Pit	1956	2307173
G	489m NW	Unspecified Pit	1905 - 1950	2311619
G	489m NW	Unspecified Pits	1956	2297288

*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 ungrouped 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
E	352m E	Unspecified Tank	1970 - 1991	414126
E	354m E	Unspecified Tank	1995 - 1997	414989

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.3 Historical energy features

### Records within 500m

6

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 ungrouped 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
A	113m N	Electricity Substation	1970 - 1997	293909
A	113m N	Electricity Substation	1988 - 1991	295547
B	308m NW	Electricity Substation	1997	293735
B	308m NW	Electricity Substation	1995	293736
B	309m NW	Electricity Substation	1988	293661
B	309m NW	Electricity Substation	1991	293724

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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 ungrouped 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

<b>Records within 500m</b>	<b>2</b>
----------------------------	----------

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 ungrouped 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
D	337m N	Garage	1988 - 1991	87276
D	343m N	Garage	1970	86802

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

**Records within 500m**

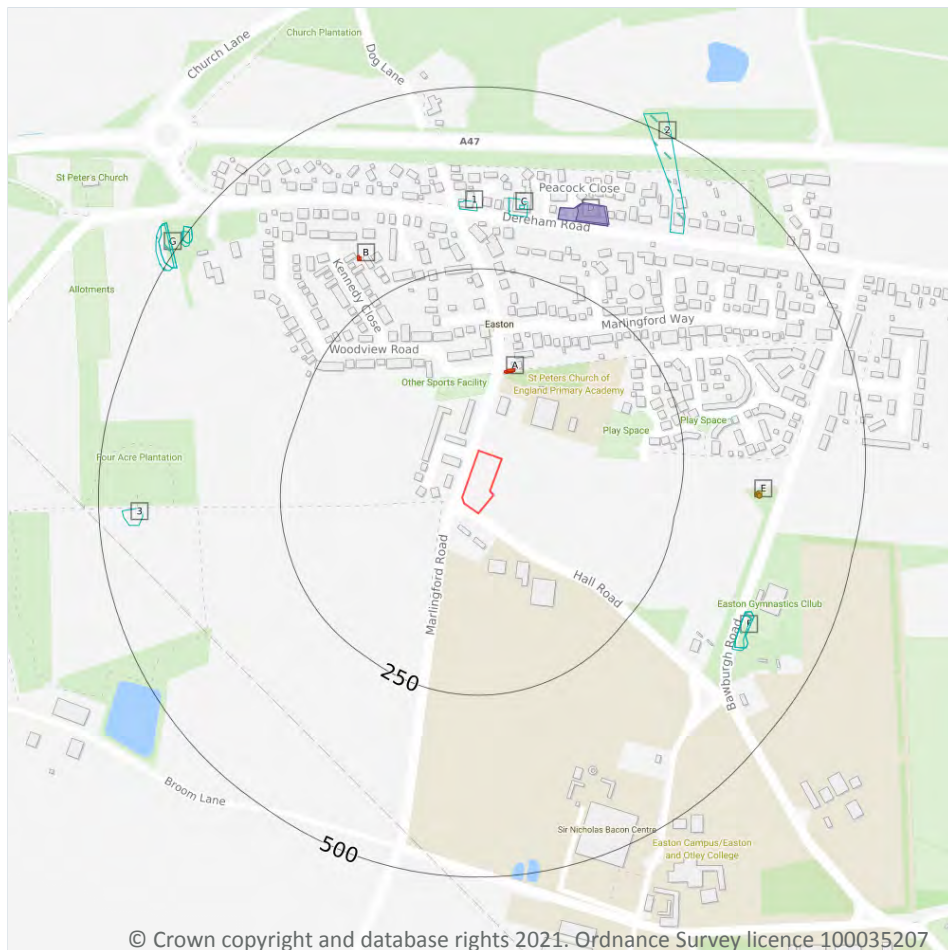
**0**

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
- Historical garages

### 2.1 Historical industrial land uses

Records within 500m

14

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
C	327m N	Smithy	1905	2313566
1	330m N	Smithy	1882	2298974
C	337m N	Smithy	1956	2308518



ID	Location	Land Use	Date	Group ID
F	382m SE	Gravel Pit	1950	2314469
F	382m SE	Gravel Pit	1905	2314469
F	382m SE	Sand Pit	1956	2300065
2	388m NE	Timber Yard	1975	2299204
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G	485m NW	Unspecified Pit	1950	2313096
G	485m NW	Unspecified Pit	1905	2313096
G	488m NW	Unspecified Pit	1956	2307173
G	489m NW	Unspecified Pit	1950	2311619
G	489m NW	Unspecified Pit	1905	2311619
G	489m NW	Unspecified Pits	1956	2297288

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

<b>Records within 500m</b>	<b>5</b>
----------------------------	----------

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
E	352m E	Unspecified Tank	1988	414126
E	352m E	Unspecified Tank	1991	414126
E	353m E	Unspecified Tank	1970	414126
E	354m E	Unspecified Tank	1997	414989
E	354m E	Unspecified Tank	1995	414989

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.3 Historical energy features

### Records within 500m

9

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	113m N	Electricity Substation	1988	295547
A	113m N	Electricity Substation	1991	295547
A	113m N	Electricity Substation	1997	293909
A	113m N	Electricity Substation	1995	293909
A	115m N	Electricity Substation	1970	293909
B	308m NW	Electricity Substation	1997	293735
B	308m NW	Electricity Substation	1995	293736
B	309m NW	Electricity Substation	1988	293661
B	309m NW	Electricity Substation	1991	293724

*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

3

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'.

Features are displayed on the Past land use - un-grouped map on **page 18**



ID	Location	Land Use	Date	Group ID
D	337m N	Garage	1988	87276
D	337m N	Garage	1991	87276
D	343m N	Garage	1970	86802

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- 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

0

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.

*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

6

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	164m N	8 Woodview Road NORWICH NR9 5EU	EPR/VF0400G W/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers

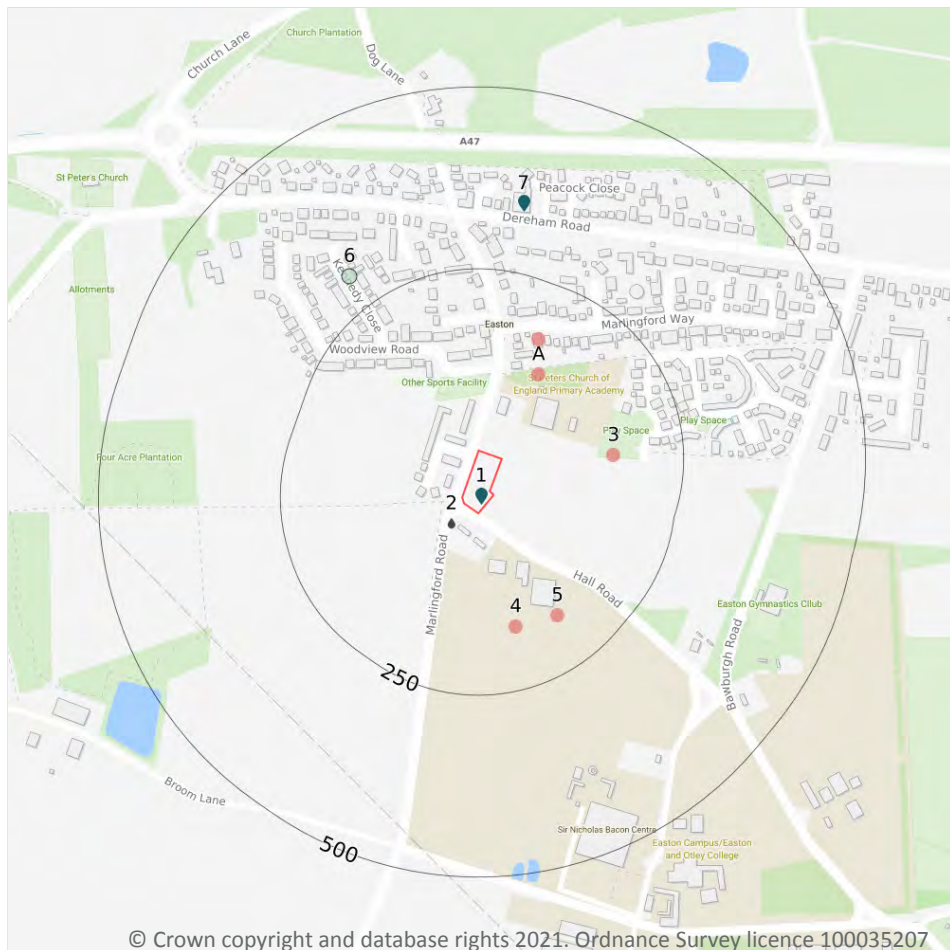


ID	Location	Site	Reference	Category	Sub-Category	Description
A	164m N	8 Woodview Road NORWICH NR9 5EU	EPR/VF0400G W/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	166m N	-	WEX268061	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	166m N	-	WEX268061	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	166m N	8, WOODVIEW ROAD, EASTON, NORWICH, NR9 5EU	WEX125849	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	166m N	8, WOODVIEW ROAD, EASTON, NORWICH, NR9 5EU	WEX125849	Storing waste exemption	Not on a farm	Storage of waste in a secure place

*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
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

Records within 250m

5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Company	Address	Activity	Category
A	127m NE	Electricity Sub Station	Norfolk, NR9	Electrical Features	Infrastructure and Facilities
3	154m E	Electricity Sub Station	Norfolk, NR9	Electrical Features	Infrastructure and Facilities
4	164m S	Mast	Norfolk, NR9	Telecommunications Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	171m N	Preform Insulations Ltd	2, Marlingford Way, Easton, Norwich, Norfolk, NR9 5HB	Construction Completion Services	Construction Services
5	177m SE	Slurry Bed	Norfolk, NR9	Waste Storage, Processing and Disposal	Infrastructure and Facilities

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**0**

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

**Records within 500m**

**0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

**Records within 500m**

**0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

**Records within 500m**

**0**

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

*This data is sourced from Local Authority records.*





## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

Records within 500m

0

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

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

Records within 500m

0

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

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

## 4.10 Licensed industrial activities (Part A(1))

Records within 500m

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

2

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 25**

ID	Location	Address	Details	
1	On site	M & C Agricultural (Limited), Dereham Road, New Costessey, Norwich, NR9 5DS	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
7	345m N	Adams Auto Engineering, Adams Automotor Services, 70 Dereham Road, Easton, Norfolk, NR9 5EJ	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies 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

1

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 25**

ID	Location	Address	Details	
2	32m SW	PLANT AT EASTON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR4NF484BX Permit Version: 1 Receiving Water: Trib river Yare	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 18/12/1964 Effective Date: 18/12/1964 Revocation Date: 19/03/1992

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



#### 4.14 Pollutant release to surface waters (Red List)

**Records within 500m****0**

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

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

#### 4.15 Pollutant release to public sewer

**Records within 500m****0**

Discharges of Special Category Effluents to the public sewer.

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

#### 4.16 List 1 Dangerous Substances

**Records within 500m****0**

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

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

#### 4.17 List 2 Dangerous Substances

**Records within 500m****0**

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

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

#### 4.18 Pollution Incidents (EA/NRW)

**Records within 500m****1**

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

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Details	
6	298m NW	Incident Date: 21/04/2002 Incident Identification: 73398 Pollutant: Oils and Fuel Pollutant Description: Kerosene and Aviation Fuel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

## 4.19 Pollution inventory substances

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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.*

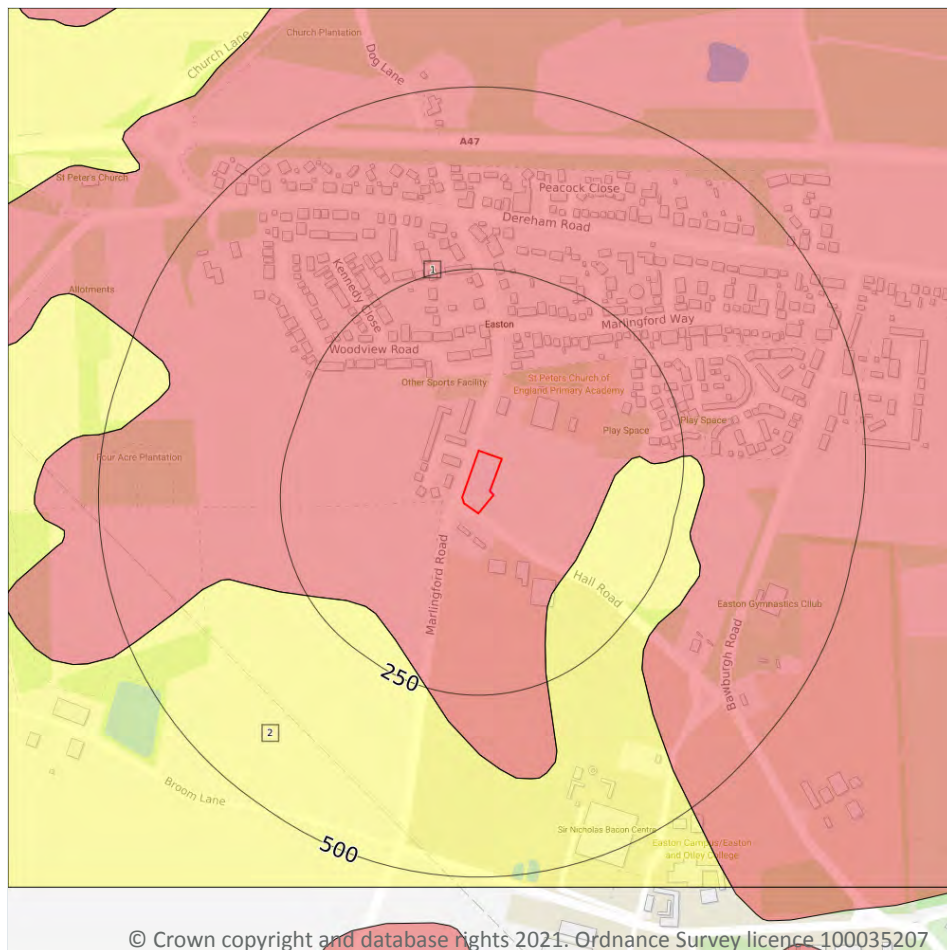
## 4.21 Pollution inventory radioactive waste

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 31**

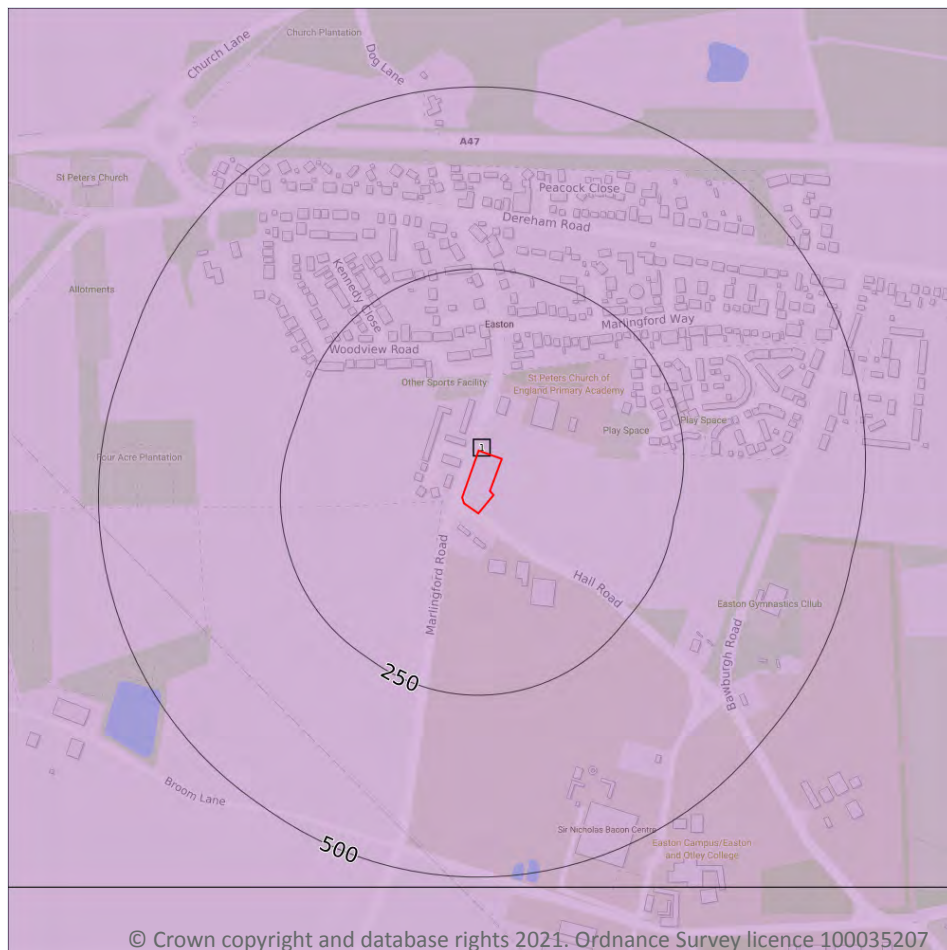
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	142m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type



*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

1

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 33**

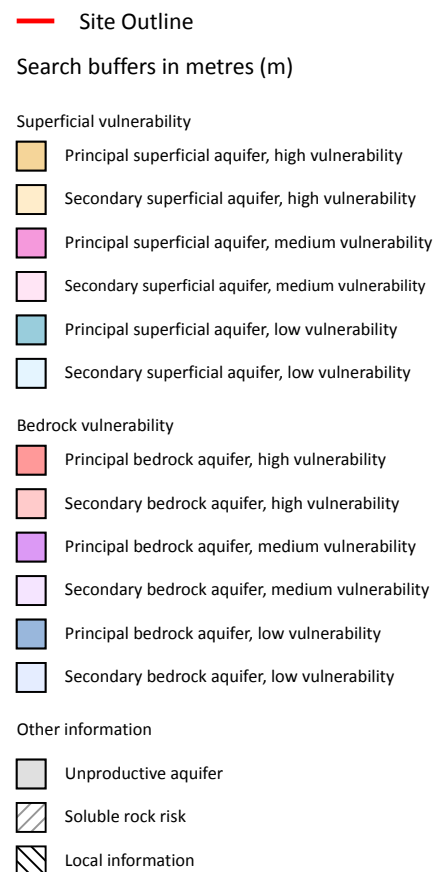
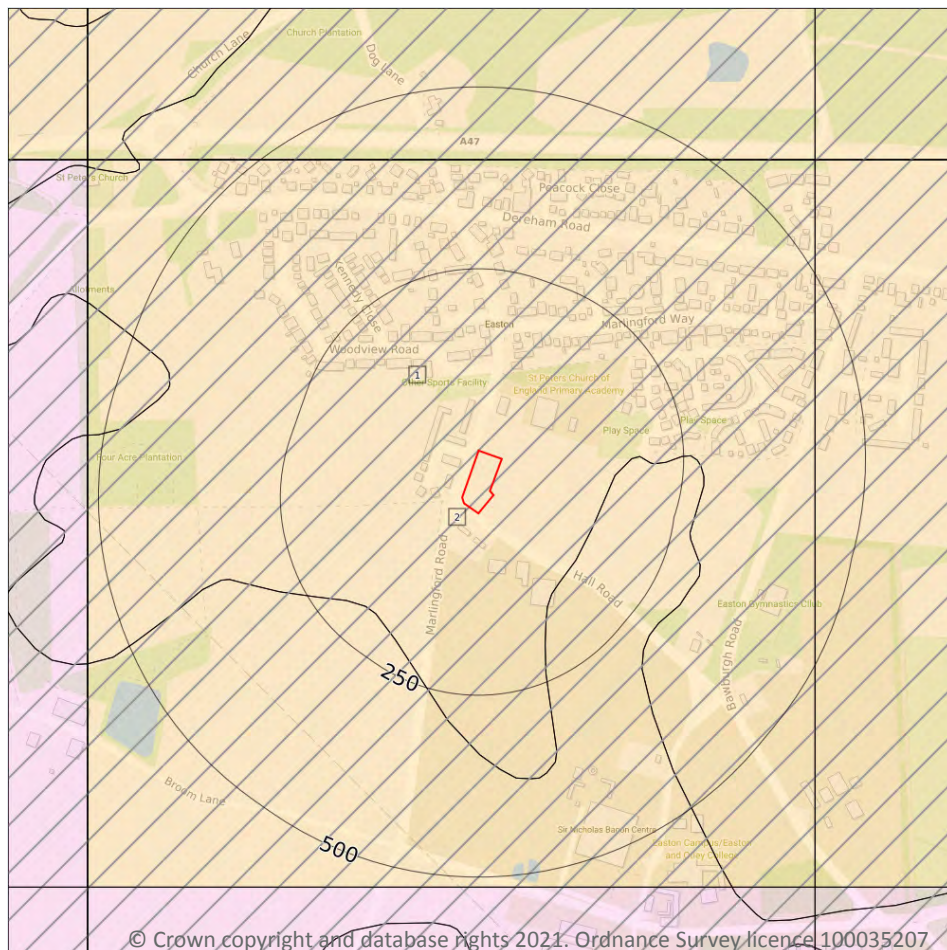
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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





## Groundwater vulnerability



### 5.3 Groundwater vulnerability

#### Records within 50m

1

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 34**





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

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

## 5.4 Groundwater vulnerability- soluble rock risk

<b>Records on site</b>	<b>1</b>
------------------------	----------

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	<b>Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.</b>	<b>82.0%</b>

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

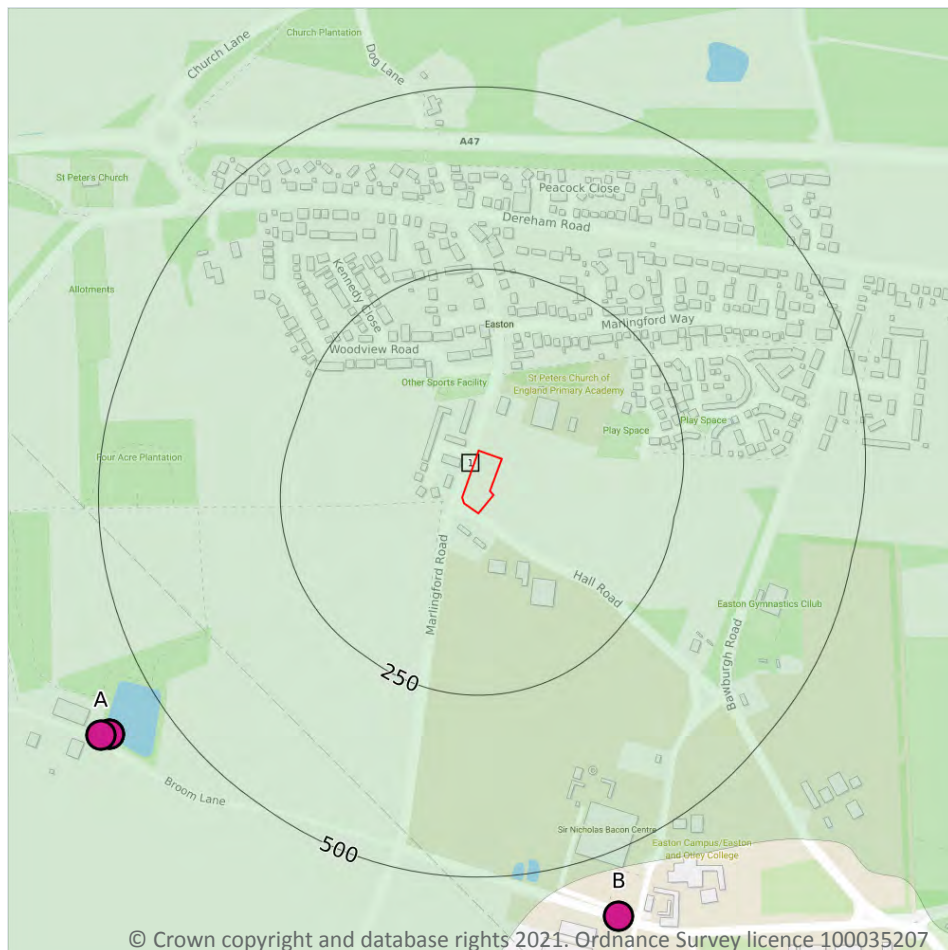
## 5.5 Groundwater vulnerability- local information

<b>Records on site</b>	<b>0</b>
------------------------	----------

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](mailto: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  
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

34

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 36**



ID	Location	Details	
A	581m SW	Status: Historical Licence No: 7/34/13/*G/0166 Details: Mineral Washing Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT EASTON Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613030 Northing: 310210	Annual Volume (m <sup>3</sup> ): 170400 Max Daily Volume (m <sup>3</sup> ): 4820 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 100 Version Start Date: 17/08/2004 Version End Date: -
A	581m SW	Status: Historical Licence No: 7/34/13/*G/0166 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT EASTON Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613030 Northing: 310210	Annual Volume (m <sup>3</sup> ): 170,400 Max Daily Volume (m <sup>3</sup> ): 4,820 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
A	581m SW	Status: Historical Licence No: 7/34/13/*G/0166 Details: Make-Up Or Top Up Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT EASTON Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613030 Northing: 310210	Annual Volume (m <sup>3</sup> ): 170,400 Max Daily Volume (m <sup>3</sup> ): 4,820 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
B	586m S	Status: Historical Licence No: 7/34/13/*G/0264 Details: Spray Irrigation - Spray Irrigation Definition Order Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613730 Northing: 309960	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/10/2014 Issue No: 2 Version Start Date: 21/05/2001 Version End Date: -
B	586m S	Status: Historical Licence No: 7/34/13/*G/0264 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613730 Northing: 309960	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/10/2014 Issue No: 2 Version Start Date: 21/05/2001 Version End Date: -



ID	Location	Details	
A	592m SW	Status: Active Licence No: 7/34/13/*G/0166 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE MODEL FARM EASTON Data Type: Point Name: Norwich City College of Further & Higher Education Easting: 613018 Northing: 310209	Annual Volume (m <sup>3</sup> ): 156,717 Max Daily Volume (m <sup>3</sup> ): 2,678 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 101 Version Start Date: 11/06/2020 Version End Date: -
A	592m SW	Status: Active Licence No: 7/34/13/*G/0166 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE MODEL FARM EASTON Data Type: Point Name: Norwich City College of Further & Higher Education Easting: 613018 Northing: 310209	Annual Volume (m <sup>3</sup> ): 156,717 Max Daily Volume (m <sup>3</sup> ): 2,678 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 101 Version Start Date: 11/06/2020 Version End Date: -
-	695m S	Status: Historical Licence No: AN/034/0013/018 Details: Heat Pump Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE NORWICH NORFOLK Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613710 Northing: 309840	Annual Volume (m <sup>3</sup> ): 94860 Max Daily Volume (m <sup>3</sup> ): 612 Original Application No: - Original Start Date: 24/11/2009 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 03/05/2011 Version End Date: -
-	695m S	Status: Historical Licence No: AN/034/0013/018 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE NORWICH NORFOLK Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613710 Northing: 309840	Annual Volume (m <sup>3</sup> ): 94860 Max Daily Volume (m <sup>3</sup> ): 612 Original Application No: - Original Start Date: 24/11/2009 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 03/05/2011 Version End Date: -



ID	Location	Details	
-	695m S	Status: Active Licence No: AN/034/0013/039 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE NORWICH NORFOLK Data Type: Point Name: Easton and Otley College Corporation Easting: 613710 Northing: 309840	Annual Volume (m <sup>3</sup> ): 110,000 Max Daily Volume (m <sup>3</sup> ): 612 Original Application No: - Original Start Date: 19/10/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 19/10/2018 Version End Date: -
-	695m S	Status: Active Licence No: AN/034/0013/039 Details: Heat Pump Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE NORWICH NORFOLK Data Type: Point Name: Easton and Otley College Corporation Easting: 613710 Northing: 309840	Annual Volume (m <sup>3</sup> ): 110,000 Max Daily Volume (m <sup>3</sup> ): 612 Original Application No: - Original Start Date: 19/10/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 19/10/2018 Version End Date: -
-	832m E	Status: Historical Licence No: 7/34/13/*G/0285 Details: Make-Up Or Top Up Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT EASTON QUARRY Data Type: Point Name: LAFARGE AGGREGATES LTD Easting: 614380 Northing: 310400	Annual Volume (m <sup>3</sup> ): 55000 Max Daily Volume (m <sup>3</sup> ): 200 Original Application No: - Original Start Date: 17/08/2004 Expiry Date: 31/03/2008 Issue No: 2 Version Start Date: 13/06/2007 Version End Date: -
-	832m E	Status: Historical Licence No: 7/34/13/*G/0285A Details: Make-Up Or Top Up Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT EASTON QUARRY Data Type: Point Name: LAFARGE AGGREGATES LTD Easting: 614380 Northing: 310400	Annual Volume (m <sup>3</sup> ): 55000 Max Daily Volume (m <sup>3</sup> ): 200 Original Application No: - Original Start Date: 01/04/2008 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	842m SE	Status: Historical Licence No: 7/34/13/*G/0296A Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLES AT EASTON COLLEGE, MARLINGFORD Data Type: Line Name: ANGLIAN WATER SERVICES LTD Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 06/11/2007 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 31/05/2008 Version End Date: -
-	842m SE	Status: Historical Licence No: AN/034/0013/011 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613870 Northing: 309740	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 3 Version Start Date: 06/11/2014 Version End Date: -
-	842m SE	Status: Historical Licence No: AN/034/0013/011/L Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613870 Northing: 309740	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	842m SE	Status: Active Licence No: AN/034/0013/011/R01 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: Anglian Water Services Ltd Easting: 613870 Northing: 309740	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6,000 Original Application No: - Original Start Date: 30/05/2018 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 30/05/2018 Version End Date: -





ID	Location	Details	
-	855m S	Status: Historical Licence No: 7/34/13/*G/0296A Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LTD Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 06/11/2007 Expiry Date: 31/03/2010 Issue No: 1 Version Start Date: 06/11/2007 Version End Date: -
-	855m S	Status: Historical Licence No: 7/34/13/*G/0296A Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 06/11/2007 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 31/05/2008 Version End Date: -
-	855m S	Status: Historical Licence No: AN/034/0013/011 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 3 Version Start Date: 06/11/2014 Version End Date: -
-	855m S	Status: Historical Licence No: AN/034/0013/011/L Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -



ID	Location	Details	
-	855m S	Status: Active Licence No: AN/034/0013/011/R01 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: Anglian Water Services Ltd Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6,000 Original Application No: - Original Start Date: 30/05/2018 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 30/05/2018 Version End Date: -
-	1013m SW	Status: Historical Licence No: 7/34/13/*G/0267 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT MARLINGFORD SPORTS CLUB Data Type: Point Name: MARLINGFORD SPORTS CLUB LTD Easting: 613100 Northing: 309600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/04/2000 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 28/04/2000 Version End Date: -
-	1013m SW	Status: Historical Licence No: 7/34/13/*G/0267 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT MARLINGFORD SPORTS CLUB Data Type: Point Name: MARLINGFORD SPORTS CLUB LTD Easting: 613100 Northing: 309600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/04/2000 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 28/04/2000 Version End Date: -
-	1058m N	Status: Historical Licence No: 7/34/12/*G/0068 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE,HILL FM,EASTON Data Type: Point Name: RAMPTON Easting: 613220 Northing: 311610	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/1966 Version End Date: -
-	1269m E	Status: Historical Licence No: 7/34/12/*G/0079 Details: Process water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE AT EASTON NORFOLK Data Type: Point Name: RMC AGGREGATES (EASTERN COUNTIES) LTD Easting: 614800 Northing: 310900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/03/1967 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1999 Version End Date: -



ID	Location	Details	
-	1347m E	Status: Historical Licence No: 7/34/12/*G/0118 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE-DEREHAM ROAD, NORWICH Data Type: Point Name: R M C PROPERTIES LTD Easting: 614900 Northing: 310800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/08/1993 Expiry Date: - Issue No: 100 Version Start Date: 01/05/1995 Version End Date: -
-	1360m E	Status: Historical Licence No: 7/34/12/*G/0050 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE,HIGHWAY COTT,COSTESSEY Data Type: Point Name: R M C PROPERTIES LTD Easting: 614910 Northing: 310820	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1995 Version End Date: -
-	1562m E	Status: Active Licence No: 7/34/12/*G/0067 Details: Mineral Washing Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BORE,DEREHAM RD,COSTESSEY Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 615100 Northing: 310900	Annual Volume (m <sup>3</sup> ): 49,000 Max Daily Volume (m <sup>3</sup> ): 164 Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 103 Version Start Date: 21/12/2018 Version End Date: -
-	1778m E	Status: Historical Licence No: 7/34/12/*G/0104 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT BAWBURGH Data Type: Point Name: GLEN LODGE BAWBURGH LTD Easting: 615279 Northing: 310091	Annual Volume (m <sup>3</sup> ): 15000 Max Daily Volume (m <sup>3</sup> ): 120 Original Application No: - Original Start Date: 01/03/1982 Expiry Date: - Issue No: 105 Version Start Date: 18/01/2016 Version End Date: -
-	1778m E	Status: Active Licence No: 7/34/12/*G/0104 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: U/S CHALK AT BAWBURGH NORWICH Data Type: Point Name: GLEN LODGE BAWBURGH LTD Easting: 615279 Northing: 310091	Annual Volume (m <sup>3</sup> ): 15,000 Max Daily Volume (m <sup>3</sup> ): 120 Original Application No: - Original Start Date: 01/03/1982 Expiry Date: - Issue No: 106 Version Start Date: 19/10/2017 Version End Date: -

ID	Location	Details	
-	1779m E	Status: Historical Licence No: 7/34/12/*G/0104 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT BAWBURGH Data Type: Point Name: GLEN LODGE BAWBURGH LTD Easting: 615280 Northing: 310090	Annual Volume (m <sup>3</sup> ): 15000 Max Daily Volume (m <sup>3</sup> ): 90 Original Application No: - Original Start Date: 01/03/1982 Expiry Date: - Issue No: 104 Version Start Date: 01/10/2008 Version End Date: -
-	1779m E	Status: Historical Licence No: 7/34/12/*G/0104 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT BAWBURGH Data Type: Point Name: GLEN LODGE BAWBURGH LTD Easting: 615280 Northing: 310090	Annual Volume (m <sup>3</sup> ): 15000 Max Daily Volume (m <sup>3</sup> ): 90 Original Application No: - Original Start Date: 01/03/1982 Expiry Date: - Issue No: 104 Version Start Date: 01/04/2013 Version End Date: -
-	1855m S	Status: Active Licence No: 7/34/13/*G/0243 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE,CHAPEL FM,MARLINGFORD Data Type: Point Name: GREAT MELTON FARMS LTD Easting: 613450 Northing: 308660	Annual Volume (m <sup>3</sup> ): 3,500 Max Daily Volume (m <sup>3</sup> ): 23 Original Application No: - Original Start Date: 01/09/1997 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1997 Version End Date: -

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

## 5.7 Surface water abstractions

### Records within 2000m

**14**

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 36**



ID	Location	Details	
-	840m N	Status: Historical Licence No: 7/34/12/*S/0066 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD EASTON Data Type: Line Name: EASTON ESTATES Easting: 613500 Northing: 311440	Annual Volume (m <sup>3</sup> ): 40900 Max Daily Volume (m <sup>3</sup> ): 909 Original Application No: - Original Start Date: 01/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 15/07/1999 Version End Date: -
-	840m N	Status: Historical Licence No: 7/34/12/*S/0066 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: REACH C-RIVER TUD EASTON Data Type: Line Name: EASTON ESTATES Easting: 613500 Northing: 311440	Annual Volume (m <sup>3</sup> ): 40900 Max Daily Volume (m <sup>3</sup> ): 909 Original Application No: - Original Start Date: 01/07/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/01/2008 Version End Date: -
-	840m N	Status: Active Licence No: 7/34/12/*S/0066 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: REACH C-RIVER TUD AT EASTON Data Type: Line Name: Honingham Aktieselskab Easting: 613500 Northing: 311440	Annual Volume (m <sup>3</sup> ): 40,900 Max Daily Volume (m <sup>3</sup> ): 909 Original Application No: - Original Start Date: 01/07/1966 Expiry Date: - Issue No: 104 Version Start Date: 14/12/2018 Version End Date: -
-	969m NW	Status: Historical Licence No: 7/34/12/*S/0066 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: REACH B-RIVER TUD I HONINGHAM & EASTON Data Type: Line Name: EASTON ESTATES Easting: 612120 Northing: 311430	Annual Volume (m <sup>3</sup> ): 40900 Max Daily Volume (m <sup>3</sup> ): 909 Original Application No: - Original Start Date: 01/07/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/01/2008 Version End Date: -
-	969m NW	Status: Historical Licence No: AN/034/0012/002 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD AT HILL FARM Data Type: Point Name: Honingham Aktieselskab Easting: 613110 Northing: 311470	Annual Volume (m <sup>3</sup> ): 113500 Max Daily Volume (m <sup>3</sup> ): 1728 Original Application No: - Original Start Date: 05/08/2011 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 01/04/2014 Version End Date: -





ID	Location	Details	
-	969m NW	Status: Active Licence No: 7/34/12/*S/0066 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: REACH B-RIVER TUD AT HONINGHAM & EASTON Data Type: Line Name: Honingham Aktieselskab Easting: 612120 Northing: 311430	Annual Volume (m <sup>3</sup> ): 40,900 Max Daily Volume (m <sup>3</sup> ): 909 Original Application No: - Original Start Date: 01/07/1966 Expiry Date: - Issue No: 104 Version Start Date: 14/12/2018 Version End Date: -
-	969m NW	Status: Active Licence No: AN/034/0012/002/R01 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD AT HILL FARM Data Type: Point Name: Easton Estates Easting: 613110 Northing: 311470	Annual Volume (m <sup>3</sup> ): 113,500 Max Daily Volume (m <sup>3</sup> ): 1,728 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2020 Version End Date: -
-	999m N	Status: Historical Licence No: 7/34/12/*S/0125 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD Data Type: Line Name: EASTON ESTATES Easting: 612400 Northing: 311600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 21/02/2000 Version End Date: -
-	1668m S	Status: Active Licence No: 7/34/13/*S/0136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: R YARE, MARLINGFORD Data Type: Line Name: GREAT MELTON FARMS LTD Easting: 612300 Northing: 308410	Annual Volume (m <sup>3</sup> ): 54,500 Max Daily Volume (m <sup>3</sup> ): 663 Original Application No: - Original Start Date: 01/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1997 Version End Date: -
-	1673m SE	Status: Historical Licence No: 7/34/13/*S/0166 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: R YARE, MARLINGFORD Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 614730 Northing: 309340	Annual Volume (m <sup>3</sup> ): 60000 Max Daily Volume (m <sup>3</sup> ): 1200 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -



ID	Location	Details	
-	1918m NE	Status: Historical Licence No: 7/34/12/*S/0067 Details: Mineral Washing Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD COSTESSEY Data Type: Point Name: RMC AGGREGATES (EASTERN COUNTIES) LTD Easting: 615200 Northing: 311600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1999 Version End Date: -
-	1918m NE	Status: Historical Licence No: 7/34/12/*S/0067 Details: Process water Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD COSTESSEY Data Type: Point Name: RMC AGGREGATES (EASTERN COUNTIES) LTD Easting: 615200 Northing: 311600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1999 Version End Date: -
-	1918m NE	Status: Active Licence No: 7/34/12/*S/0067 Details: Mineral Washing Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD, COSTESSEY Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 615200 Northing: 311600	Annual Volume (m <sup>3</sup> ): 321,800 Max Daily Volume (m <sup>3</sup> ): 1,000 Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 103 Version Start Date: 21/12/2018 Version End Date: -
-	1918m NE	Status: Active Licence No: 7/34/12/*S/0067 Details: Process Water Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER TUD, COSTESSEY Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 615200 Northing: 311600	Annual Volume (m <sup>3</sup> ): 321,800 Max Daily Volume (m <sup>3</sup> ): 1,000 Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 103 Version Start Date: 21/12/2018 Version End Date: -

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

## 5.8 Potable abstractions

### Records within 2000m

**14**

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 36**



ID	Location	Details	
A	592m SW	Status: Active Licence No: 7/34/13/*G/0166 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE MODEL FARM EASTON Data Type: Point Name: Norwich City College of Further & Higher Education Easting: 613018 Northing: 310209	Annual Volume (m <sup>3</sup> ): 156,717 Max Daily Volume (m <sup>3</sup> ): 2,678 Original Application No: - Original Start Date: 01/09/1967 Expiry Date: - Issue No: 101 Version Start Date: 11/06/2020 Version End Date: -
-	695m S	Status: Historical Licence No: AN/034/0013/018 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE NORWICH NORFOLK Data Type: Point Name: EASTON COLLEGE CORPORATION Easting: 613710 Northing: 309840	Annual Volume (m <sup>3</sup> ): 94860 Max Daily Volume (m <sup>3</sup> ): 612 Original Application No: - Original Start Date: 24/11/2009 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 03/05/2011 Version End Date: -
-	695m S	Status: Active Licence No: AN/034/0013/039 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE NORWICH NORFOLK Data Type: Point Name: Easton and Otley College Corporation Easting: 613710 Northing: 309840	Annual Volume (m <sup>3</sup> ): 110,000 Max Daily Volume (m <sup>3</sup> ): 612 Original Application No: - Original Start Date: 19/10/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 19/10/2018 Version End Date: -
-	842m SE	Status: Historical Licence No: 7/34/13/*G/0296A Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLES AT EASTON COLLEGE, MARLINGFORD Data Type: Line Name: ANGLIAN WATER SERVICES LTD Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 06/11/2007 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 31/05/2008 Version End Date: -



ID	Location	Details	
-	842m SE	Status: Historical Licence No: AN/034/0013/011 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613870 Northing: 309740	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 3 Version Start Date: 06/11/2014 Version End Date: -
-	842m SE	Status: Historical Licence No: AN/034/0013/011/L Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613870 Northing: 309740	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	842m SE	Status: Active Licence No: AN/034/0013/011/R01 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: Anglian Water Services Ltd Easting: 613870 Northing: 309740	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6,000 Original Application No: - Original Start Date: 30/05/2018 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 30/05/2018 Version End Date: -
-	855m S	Status: Historical Licence No: 7/34/13/*G/0296A Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LTD Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 06/11/2007 Expiry Date: 31/03/2010 Issue No: 1 Version Start Date: 06/11/2007 Version End Date: -

ID	Location	Details	
-	855m S	Status: Historical Licence No: 7/34/13/*G/0296A Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 06/11/2007 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 31/05/2008 Version End Date: -
-	855m S	Status: Historical Licence No: AN/034/0013/011 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 3 Version Start Date: 06/11/2014 Version End Date: -
-	855m S	Status: Historical Licence No: AN/034/0013/011/L Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: ANGLIAN WATER SERVICES LIMITED Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	855m S	Status: Active Licence No: AN/034/0013/011/R01 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE A AT EASTON COLLEGE, MARLINGFORD Data Type: Point Name: Anglian Water Services Ltd Easting: 613800 Northing: 309700	Annual Volume (m <sup>3</sup> ): 1,500,000 Max Daily Volume (m <sup>3</sup> ): 6,000 Original Application No: - Original Start Date: 30/05/2018 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 30/05/2018 Version End Date: -

ID	Location	Details	
-	1013m SW	Status: Historical Licence No: 7/34/13/*G/0267 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT MARLINGFORD SPORTS CLUB Data Type: Point Name: MARLINGFORD SPORTS CLUB LTD Easting: 613100 Northing: 309600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/04/2000 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 28/04/2000 Version End Date: -
-	1347m E	Status: Historical Licence No: 7/34/12/*G/0118 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE-DEREHAM ROAD, NORWICH Data Type: Point Name: R M C PROPERTIES LTD Easting: 614900 Northing: 310800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/08/1993 Expiry Date: - Issue No: 100 Version Start Date: 01/05/1995 Version End Date: -

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

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>1</b>
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 36**

ID	Location	Type	Description
1	On site	3	Total catchment

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

## 5.10 Source Protection Zones (confined aquifer)

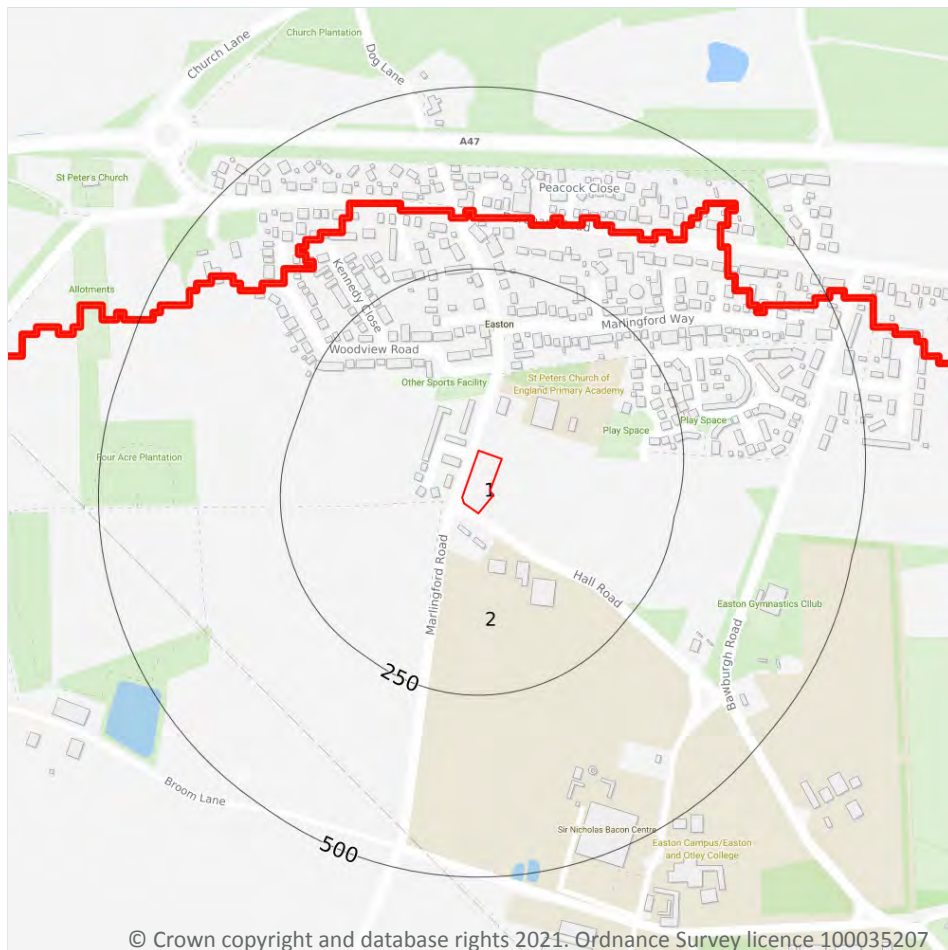
<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

0

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

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

0

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.



*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 52**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Yare (Tiffey to Wensum)	GB105034051281	Yare	Broadland Rivers

*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 52**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1375m S	River	Yare (Tiffey to Wensum)	<a href="#">GB105034051281</a>	Moderate	Good	Moderate	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 52**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Broadland Rivers Chalk & Crag	<a href="#"><u>GB40501G400300</u></a>	Poor	Poor	Poor	2015

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



## 7 River and coastal flooding

### 7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

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).

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

### 7.2 Historical Flood Events

Records within 250m

0

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

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

### 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

0

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.

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

### 7.7 Flood Zone 3

Records within 50m

0

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.

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





## 8 Surface water flooding

### 8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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.

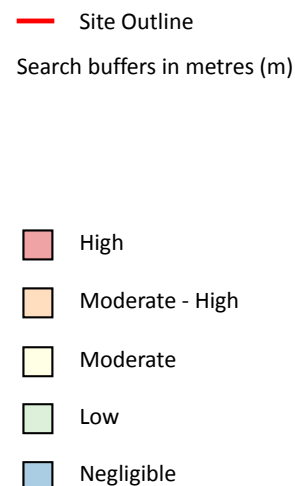
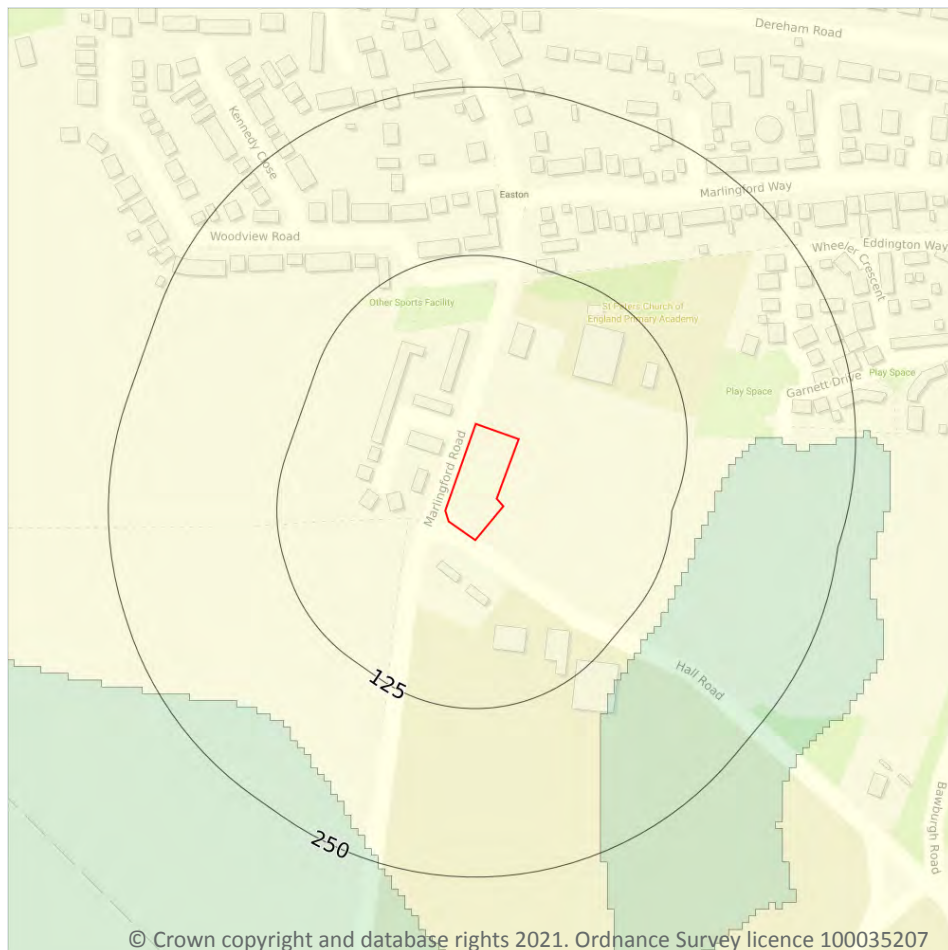
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 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 59**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- Designated Ancient Woodland

### 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 60**

ID	Location	Name	Data source
-	1959m NE	River Wensum	Natural England



ID	Location	Name	Data source
-	1970m N	River Wensum	Natural England

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

## 10.2 Conserved wetland sites (Ramsar sites)

<b>Records within 2000m</b>	<b>0</b>
-----------------------------	----------

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)

<b>Records within 2000m</b>	<b>1</b>
-----------------------------	----------

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.

Features are displayed on the Environmental designations map on **page 60**

ID	Location	Name	Features of interest	Habitat description	Data source
-	1959m NE	River Wensum	Rivers with floating vegetation often dominated by water-crowfoot; Calcium-rich fen dominated by great fen sedge (saw sedge); Alder woodland on floodplains; Brook lamprey; Bullhead; Desmoulin's whorl snail; White-clawed (or Atlantic stream) crayfish.	Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Inland water bodies (Standing water, Running water)	Natural England

*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

8

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 60**

ID	Location	Name	Woodland Type
1	1168m NW	Harmans Grove	Ancient Replanted Woodland
2	1247m NE	Old/holly Woods	Ancient & Semi-Natural Woodland
3	1400m NE	Old/holly Woods	Ancient Replanted Woodland
4	1457m NE	Lords Hills	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
-	1593m NE	Rough Ground	Ancient Replanted Woodland
-	1685m N	Cobb's Hills	Ancient & Semi-Natural Woodland
-	1741m NE	Easton Reeds	Ancient Replanted Woodland
-	1952m NE	Blackhill 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**

**0**

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

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





## 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****6**

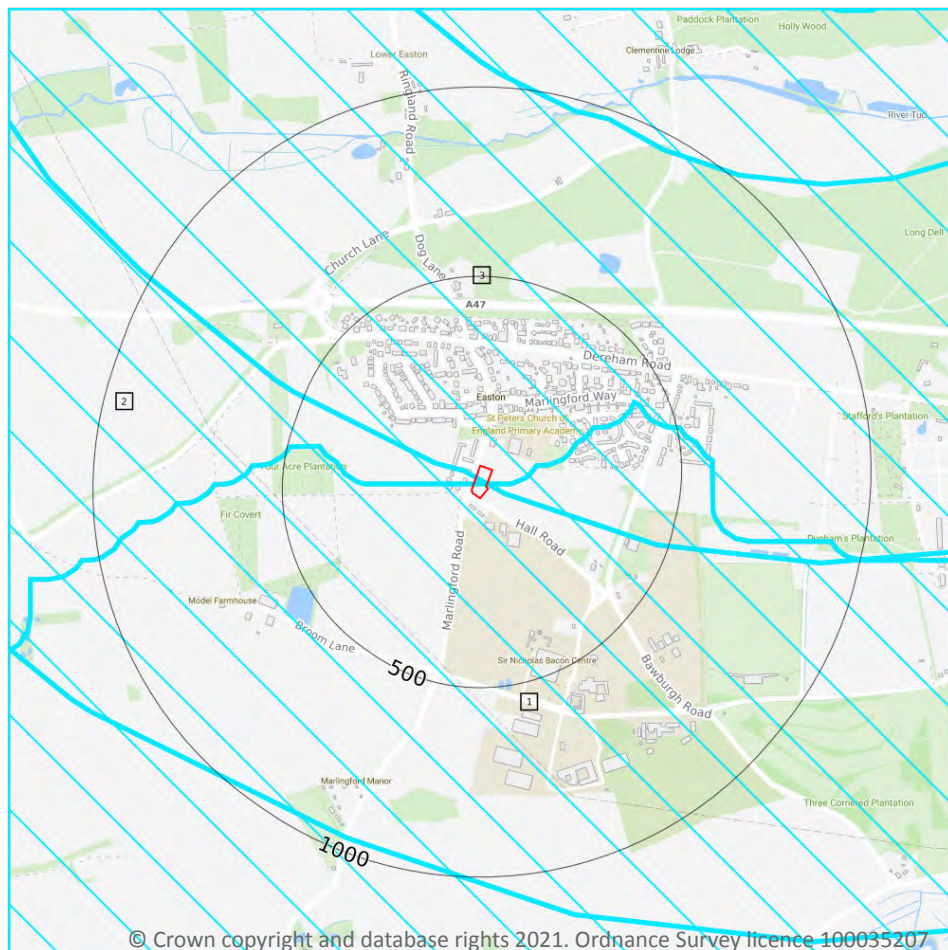
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
<b>On site</b>	<b>Norwich Crag and Gravels</b>	<b>Groundwater</b>	<b>G79</b>	<b>Existing</b>
<b>On site</b>	<b>Yare NVZ</b>	<b>Surface Water</b>	<b>S400</b>	<b>Existing</b>
200m W	Tud NVZ	Surface Water	S397	Existing
523m SE	Yare NVZ	Surface Water	S400	Existing
523m E	Norwich Crag and Gravels	Groundwater	G79	Existing
583m E	Tud NVZ	Surface Water	S397	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

3

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 66**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &gt; 750m<sup>2</sup> &amp; manure stores &gt; 3500t)</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &gt; 750m<sup>2</sup> &amp; manure stores &gt; 3500t)</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/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)</p>
3	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &gt; 200m<sup>2</sup> &amp; manure stores &gt; 250t).</p> <p>Combustion - General combustion processes &gt;20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>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</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/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)</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</p>

*This data is sourced from Natural England.*



## 10.18 SSSI Units

### Records within 2000m

**1**

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 66**

ID: -  
 Location: 1959m NE  
 SSSI name: River Wensum  
 Unit name: Lenwade Mill - Taverham Mill  
 Broad habitat: Rivers And Streams  
 Condition: Unfavourable - No change  
 Reportable features:

Feature name	Feature condition	Date of assessment
H3260 Water courses of plain to montane levels with R. fluitantis	Unfavourable - No change	26/03/2010
Rivers and Streams	Not Recorded	01/01/1900
S1016 Desmoulin's whorl snail, Vertigo moulinsiana	Unfavourable - No change	26/03/2010
S1092 Freshwater crayfish, Austropotamobius pallipes	Unfavourable - No change	26/03/2010
S1096 Brook lamprey, Lampetra planeri	Unfavourable - No change	26/03/2010
S1163 Bullhead, Cottus gobio	Unfavourable - No change	26/03/2010

*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

0

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





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

## 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 Historic England, 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 Historic England, Cadw and Historic Environment Scotland.*

## 11.7 Registered Parks and Gardens

**Records within 250m**

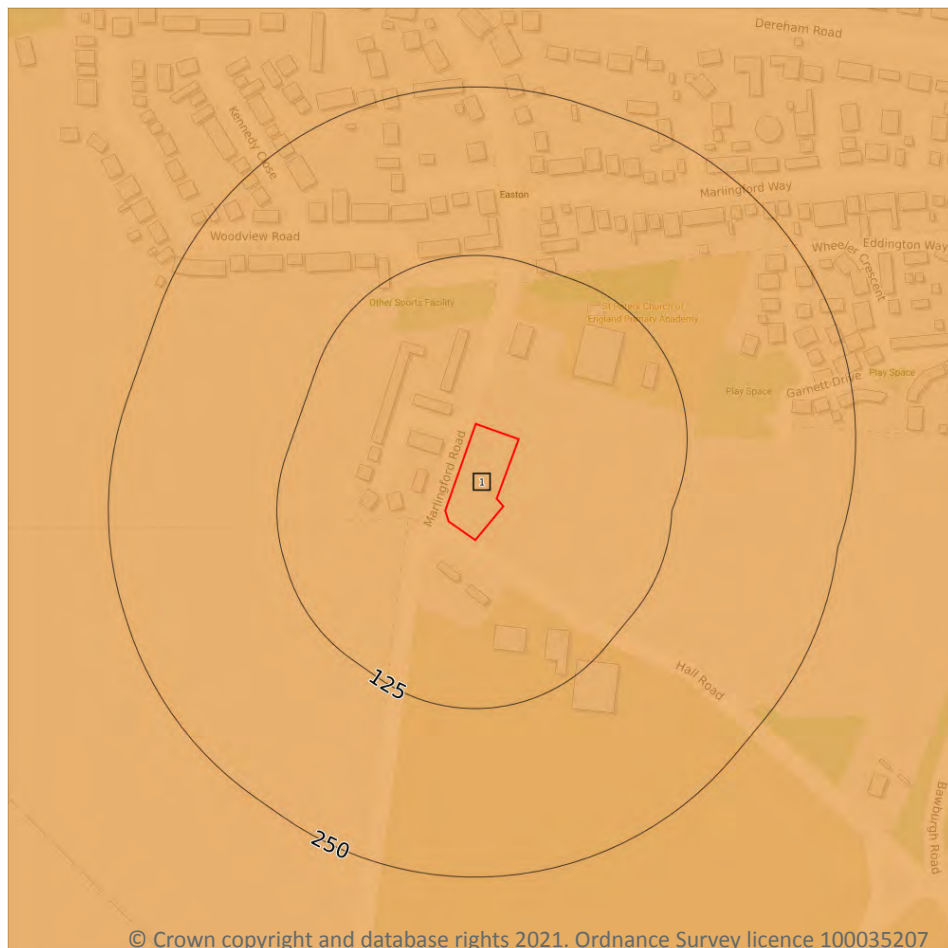
**0**

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 Historic England, 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 71**

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

4

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

Location	Reference	Scheme	Start Date	End date
<b>On site</b>	<b>AG00437826</b>	<b>Entry Level plus Higher Level Stewardship</b>	<b>01/06/2013</b>	<b>31/05/2023</b>
25m SW	AG00437826	Entry Level plus Higher Level Stewardship	01/06/2013	31/05/2023
62m S	AG00437826	Entry Level plus Higher Level Stewardship	01/06/2013	31/05/2023
78m W	AG00437826	Entry Level plus Higher Level Stewardship	01/06/2013	31/05/2023

*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

### 13.1 Priority Habitat Inventory

Records within 250m

0

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

*This data is sourced from Natural England.*

### 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



- Site Outline**
- Search buffers in metres (m)
- Full coverage
  - Partial coverage
  - No coverage

### 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 75**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TG11SW

*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

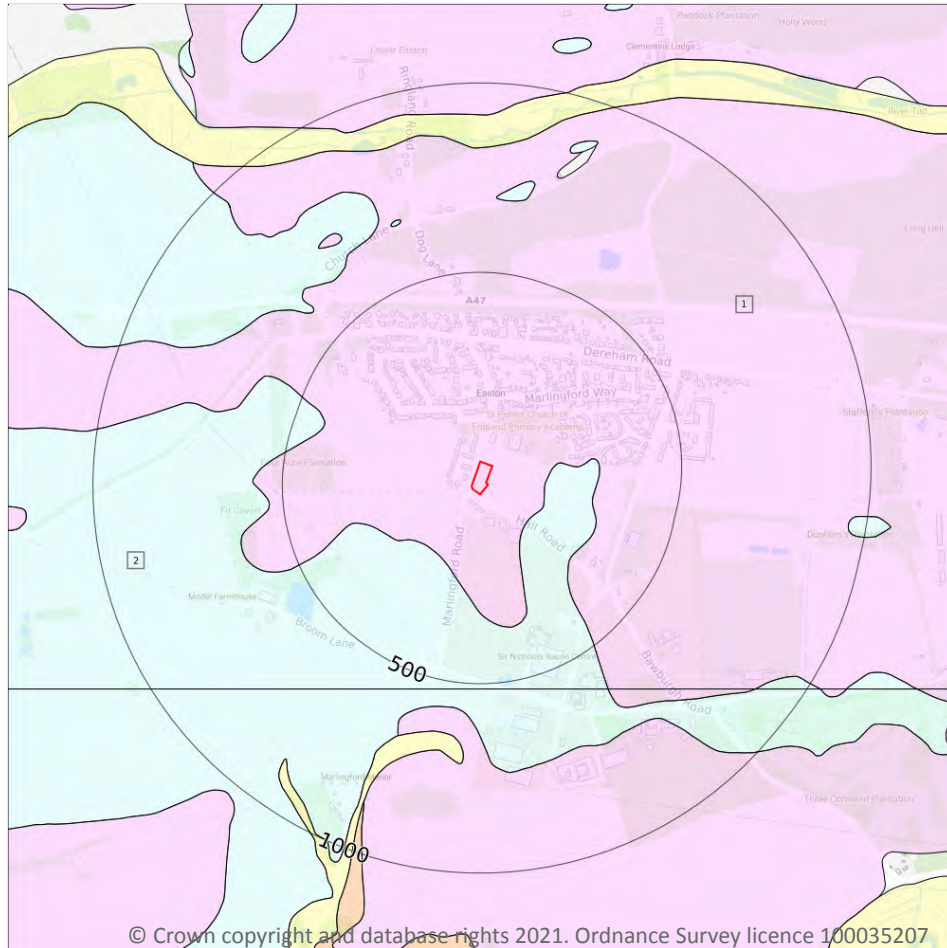
0

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.

*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

2

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 77**

ID	Location	LEX Code	Description	Rock description
1	On site	HPLO-XSV	Happisburgh Glacigenic Formation And Lowestoft Formation (undifferentiated) - Sand And Gravel	Sand And Gravel
2	142m SE	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton

*This data is sourced from the British Geological Survey.*



## 14.4 Landslip (10k)

Records within 500m

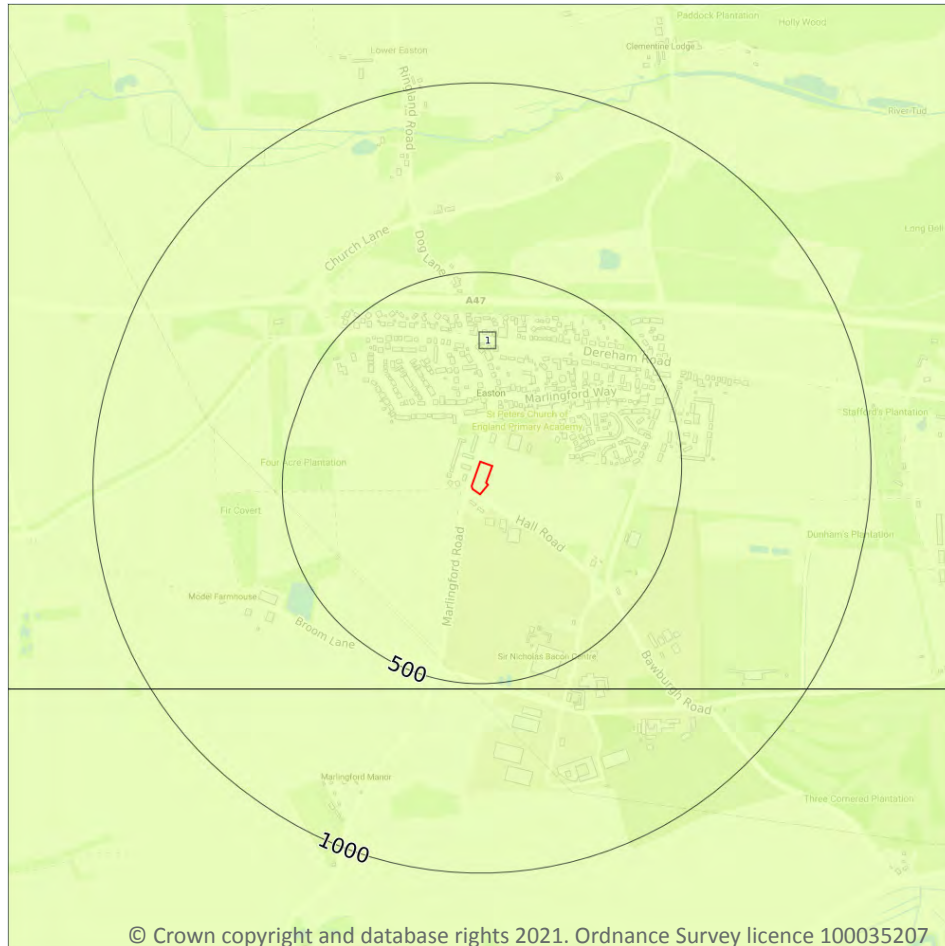
0

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

1

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 79**

ID	Location	LEX Code	Description	Rock age
1	On site	LPCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age

*This data is sourced from the British Geological Survey.*



## 14.6 Bedrock faults and other linear features (10k)

Records within 500m

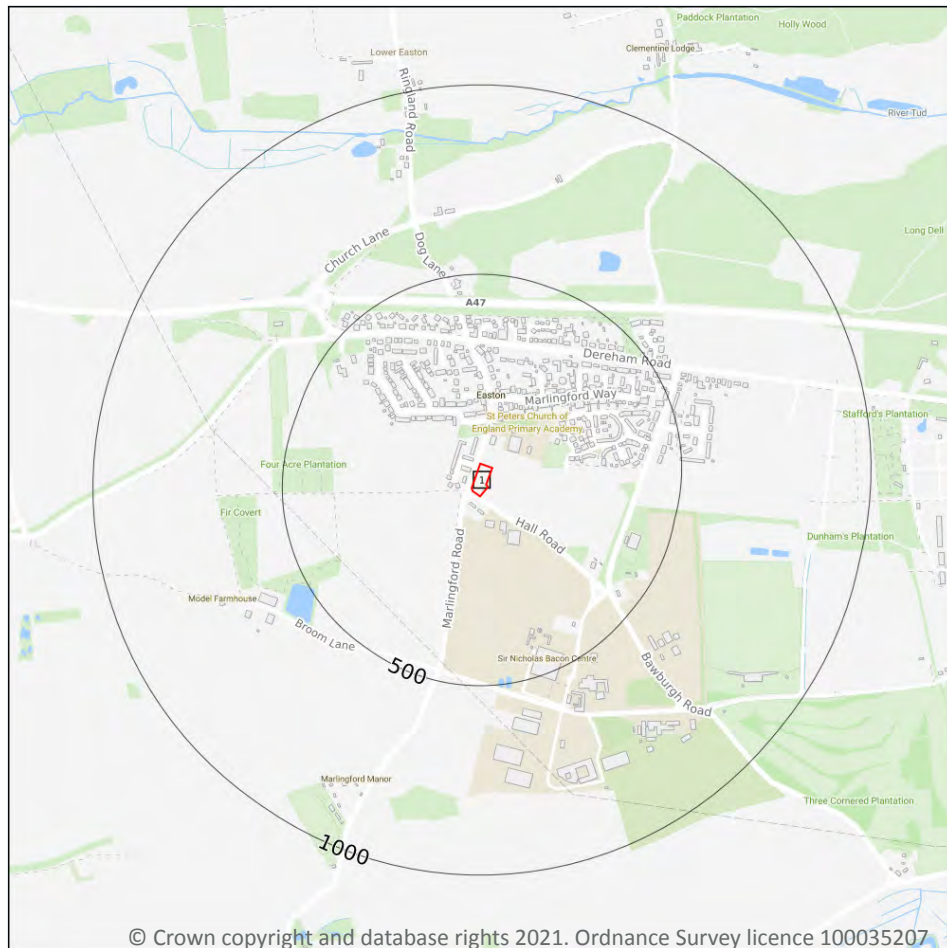
0

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.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

#### Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 81**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW161_norwich_v4

*This data is sourced from the British Geological Survey.*





## Geology 1:50,000 scale - Artificial and made ground

### 15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

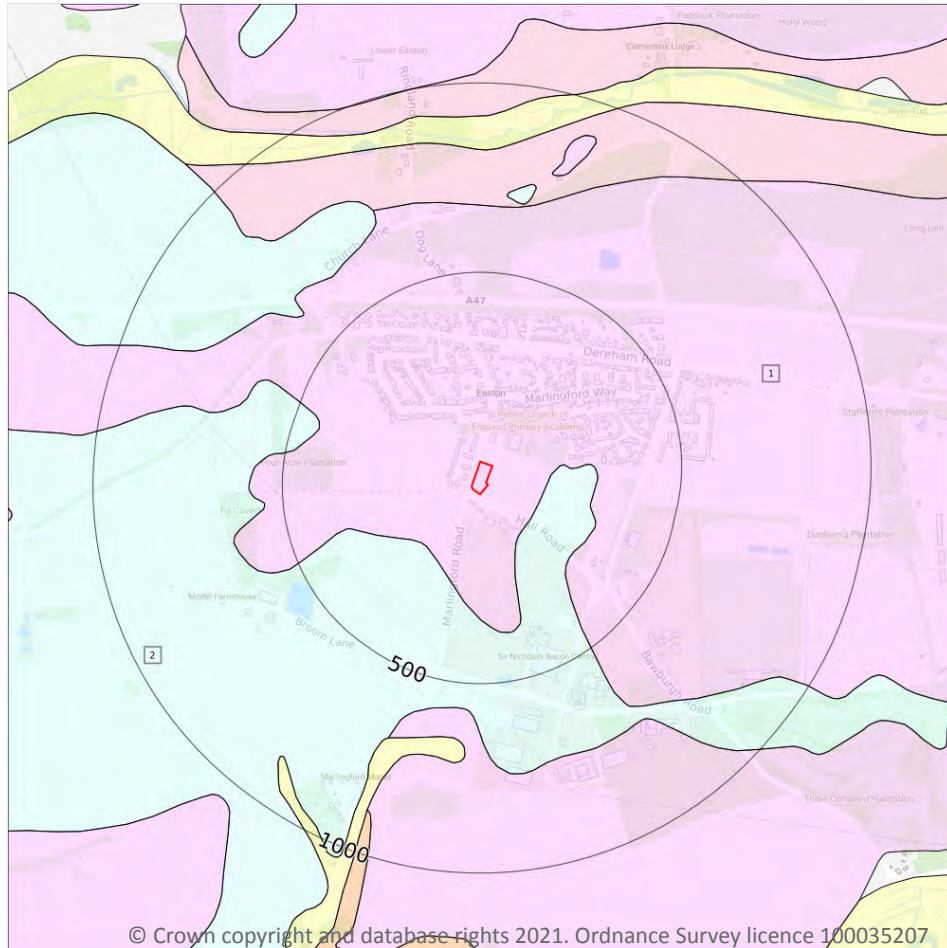
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

#### Records within 500m

2

Superficial geological deposits at 1:50,000 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 1:50,000 scale - Superficial map on **page 83**

ID	Location	LEX Code	Description	Rock description
1	On site	SMCL-XSV	SHERINGHAM CLIFFS FORMATION	SAND AND GRAVEL
2	142m SE	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON

*This data is sourced from the British Geological Survey.*



## 15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 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.*

## 15.7 Landslip permeability (50k)

Records within 50m

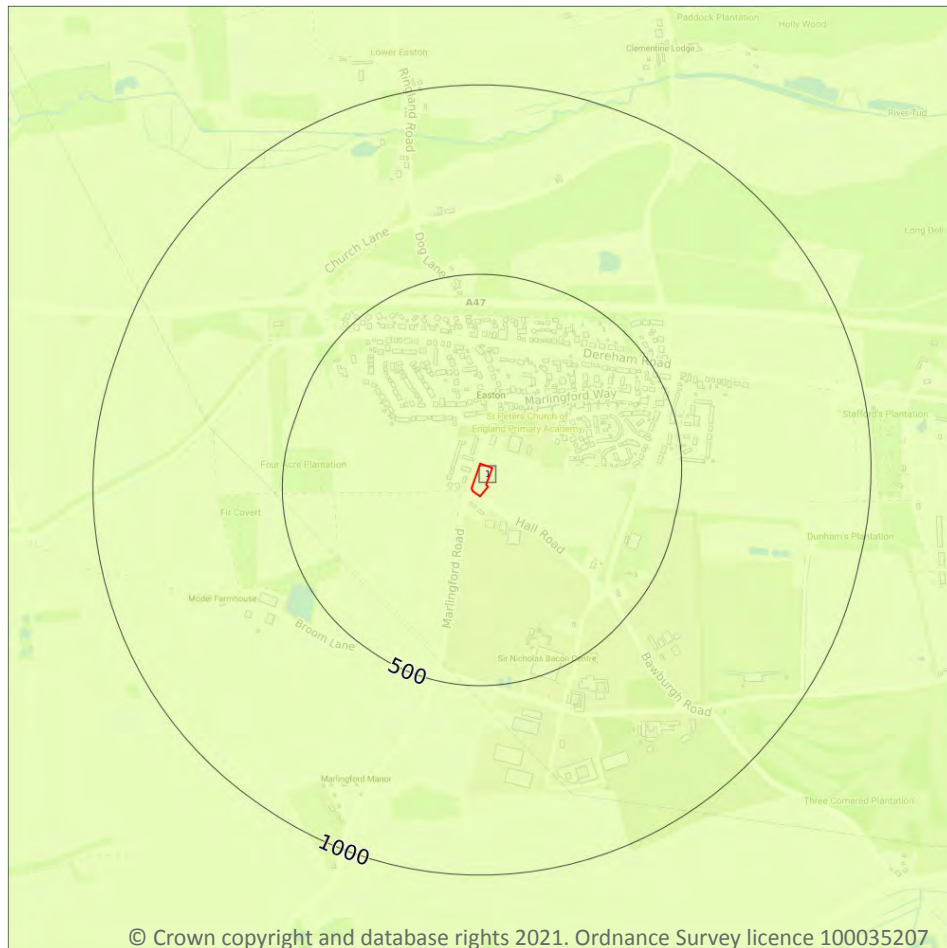
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



**Site Outline**

Search buffers in metres (m)

..... Bedrock faults and other linear features (50k)

Bedrock geology (50k)  
Please see table for more details.

### 15.8 Bedrock geology (50k)

#### Records within 500m

1

Bedrock geology at 1:50,000 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 1:50,000 scale - Bedrock map on **page 85**

ID	Location	LEX Code	Description	Rock age
1	On site	LPCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION, NEWHAVEN CHALK FORMATION, CULVER CHALK FORMATION AND PORTSDOWN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

### Records within 50m

**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Very High	Very High

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

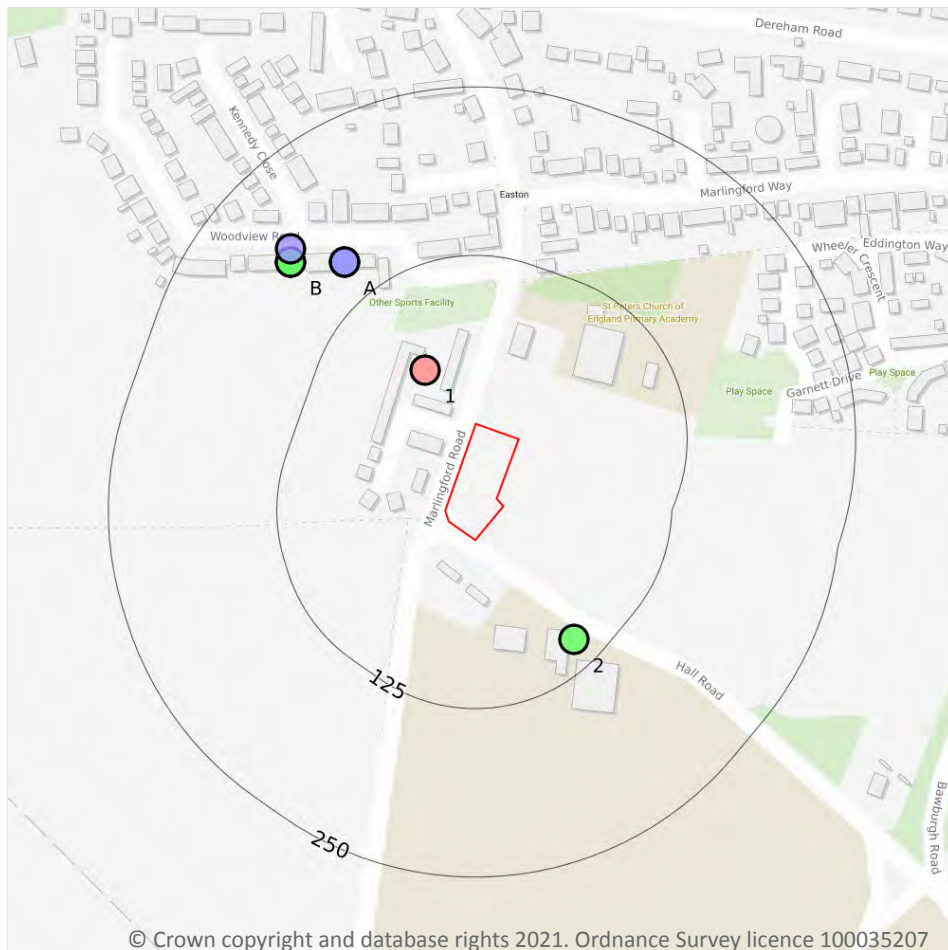
### Records within 500m

**0**

Linear features at the ground or bedrock surface at 1:50,000 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.*

## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

### 16.1 BGS Boreholes

#### Records within 250m

7

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 87**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	55m NW	613500 310640	25 COUNCIL HOUSES MARLINGFORD ROAD EASTON	64.31	N	<a href="#">514720</a>
2	104m SE	613610 310440	UPPER FARM EASTON	24.38	N	<a href="#">514691</a>



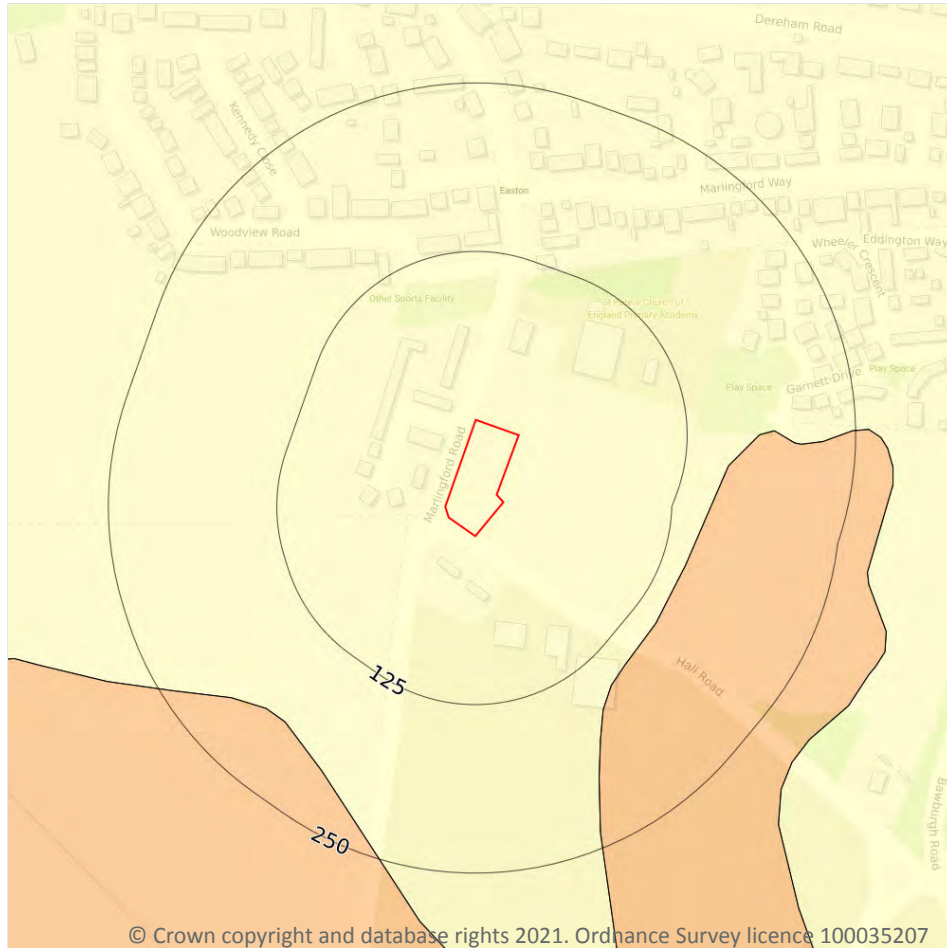


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	155m NW	613440 310720	5 WOODVIEW ROAD EASTON TP HP2	0.9	N	<a href="#">18063921</a>
A	155m NW	613440 310720	5 WOODVIEW ROAD EASTON TP HP1	1.2	N	<a href="#">18063919</a>
B	182m NW	613400 310720	SUBSIDENCE AT 11 WOODVIEW ROAD EASTON NORWICH 2	20.7	N	<a href="#">18385025</a>
B	182m NW	613400 310720	SUBSIDENCE AT 11 WOODVIEW ROAD EASTON NORWICH 1	20.0	N	<a href="#">18385022</a>
B	189m NW	613400 310730	WOODVIEW RD EASTON P1	9.5	N	<a href="#">514783</a>

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



- Site Outline**
- Search buffers in metres (m)**
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.1 Shrink swell clays

#### Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

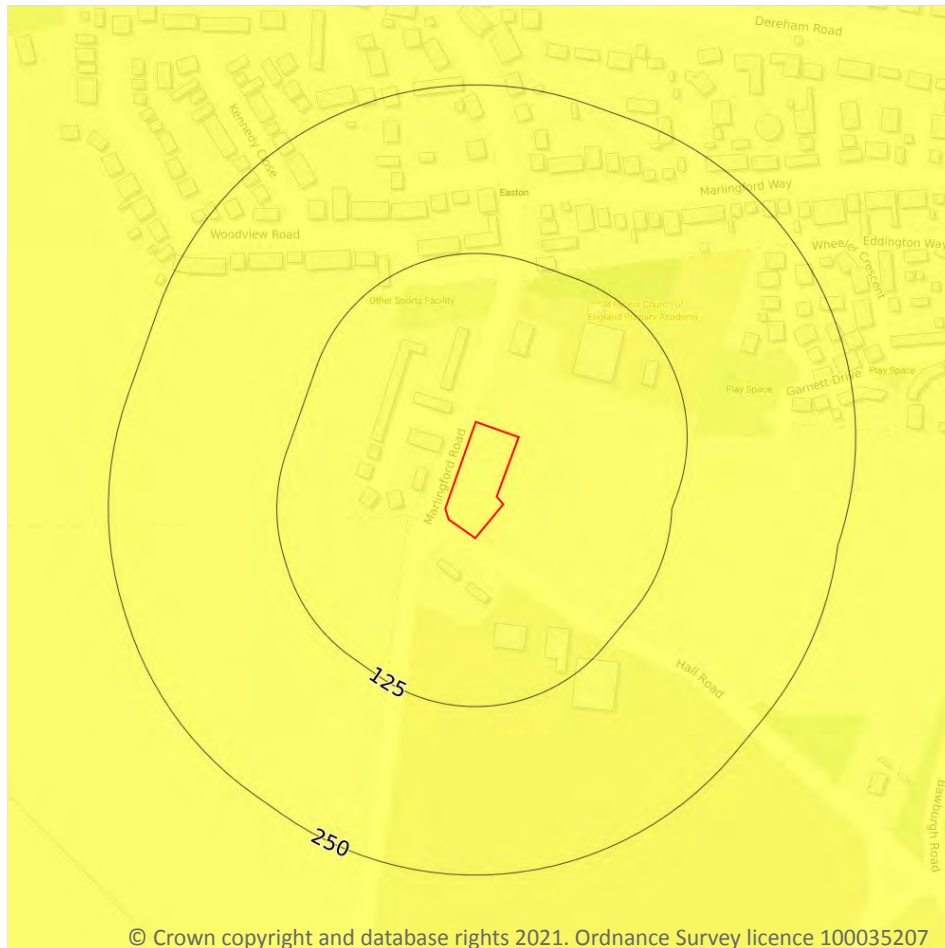
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 89**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



— Site Outline  
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☒ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

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### 17.2 Running sands

#### Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

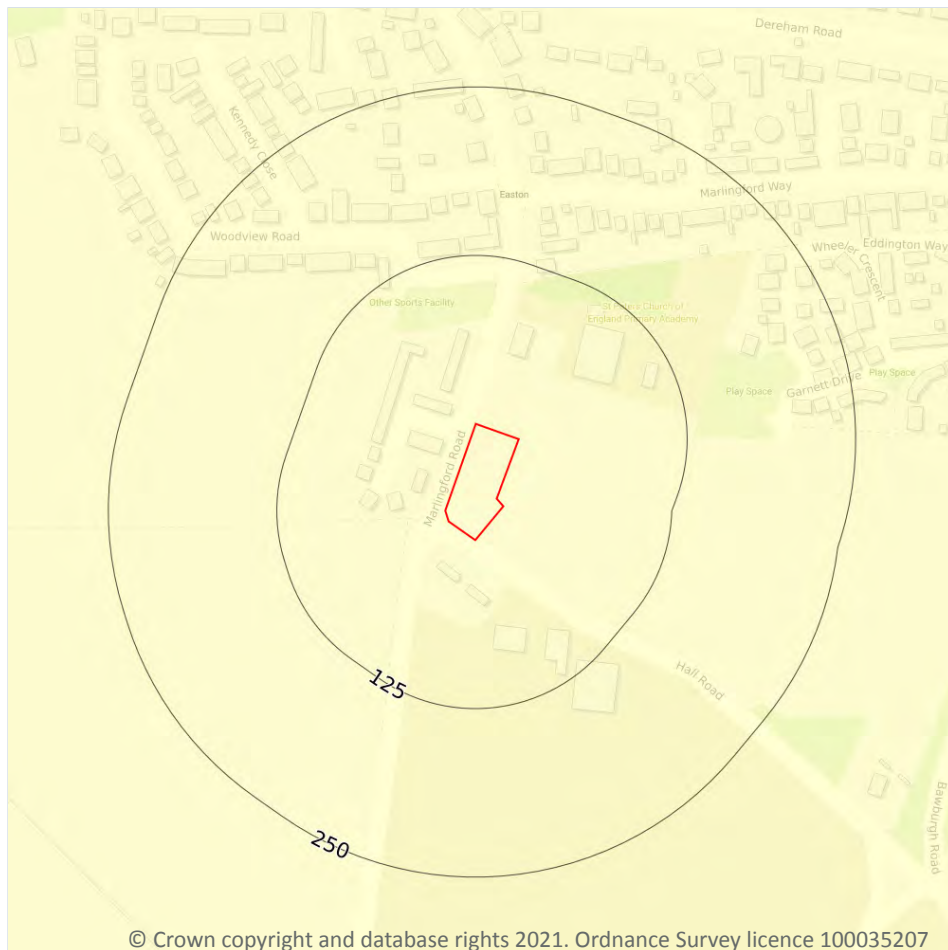
Features are displayed on the Natural ground subsidence - Running sands map on **page 90**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.3 Compressible deposits

#### Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

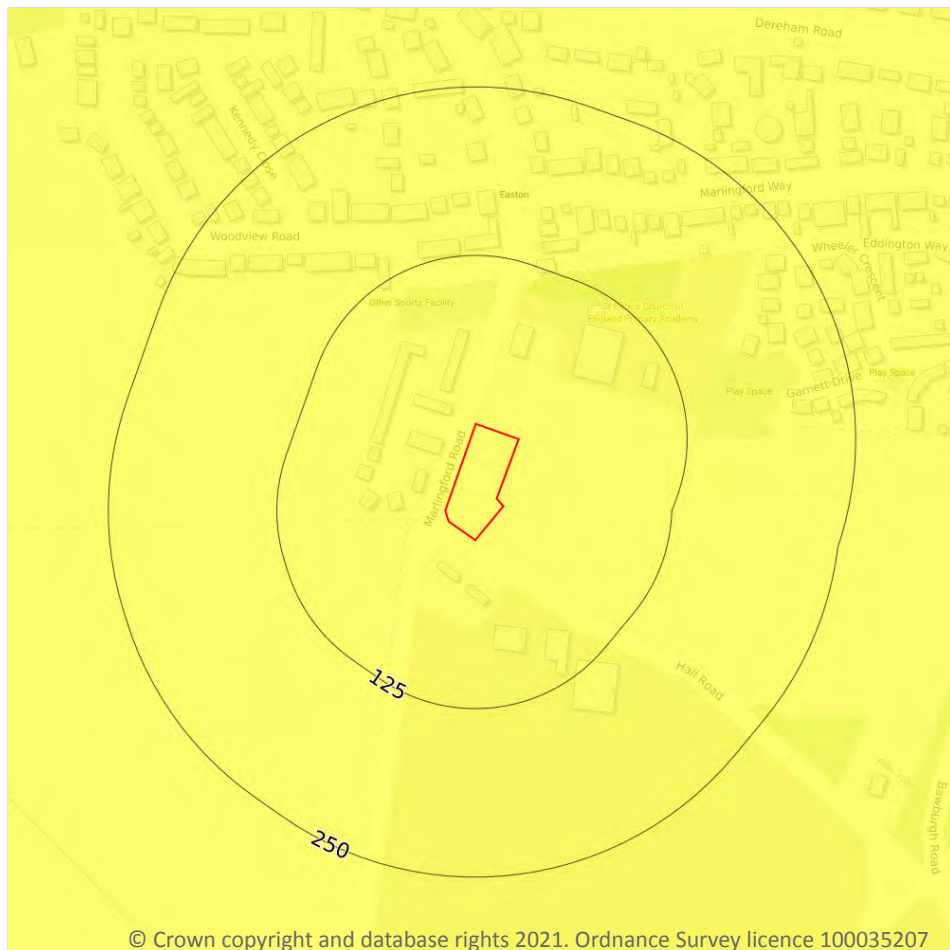
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 91**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

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### 17.4 Collapsible deposits

#### Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 92**

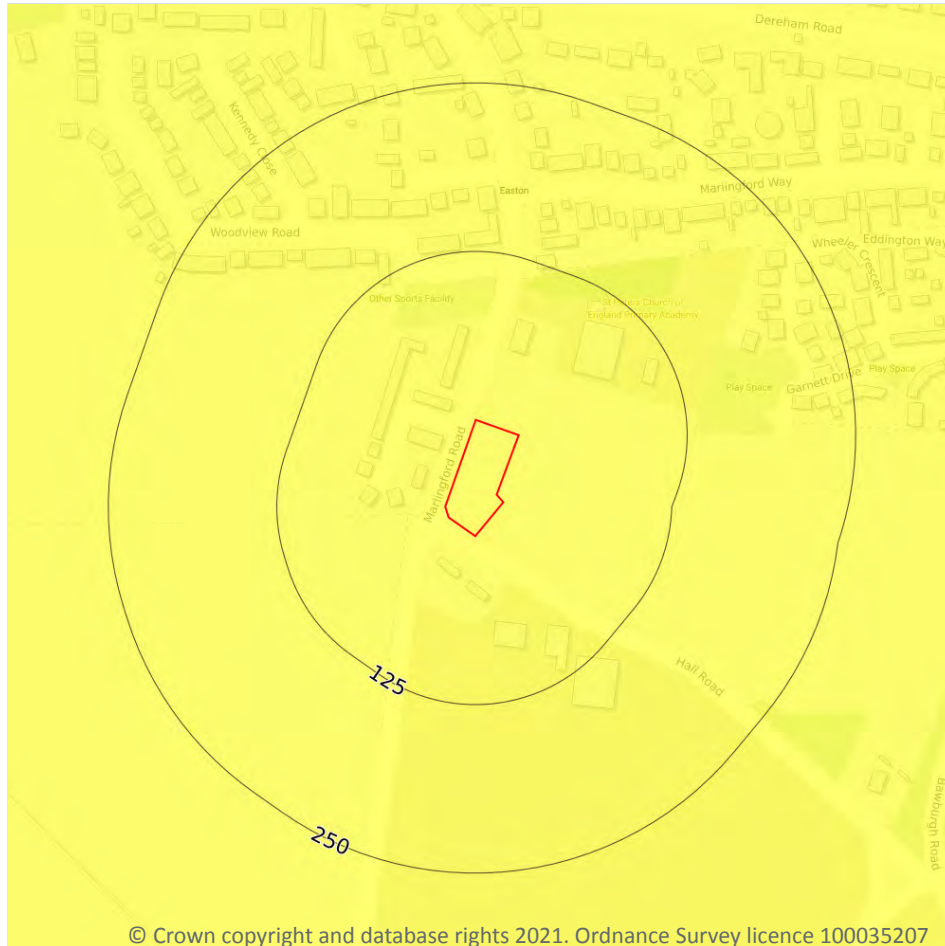
Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

*This data is sourced from the British Geological Survey.*





## Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

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### 17.5 Landslides

#### Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 93**

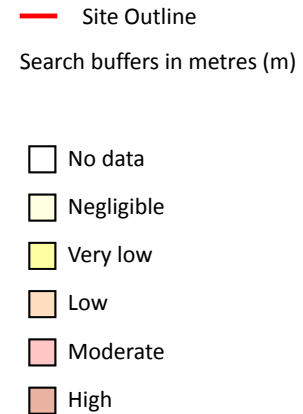
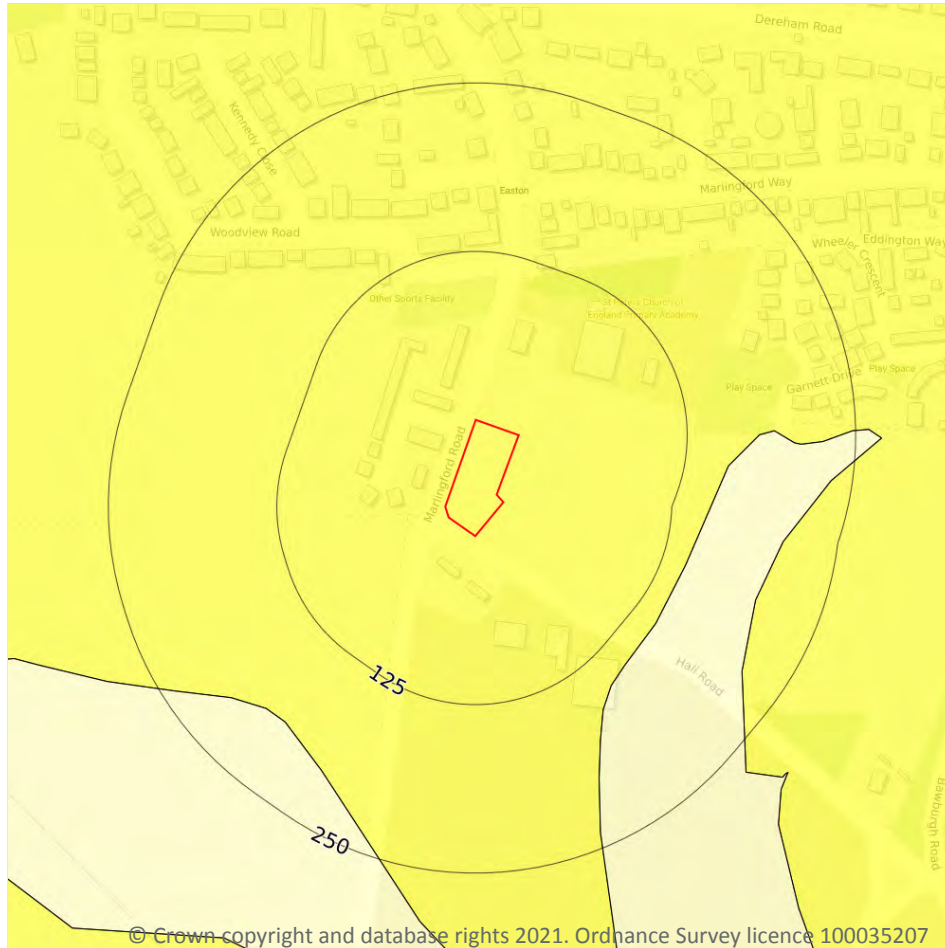
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

*This data is sourced from the British Geological Survey.*





## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

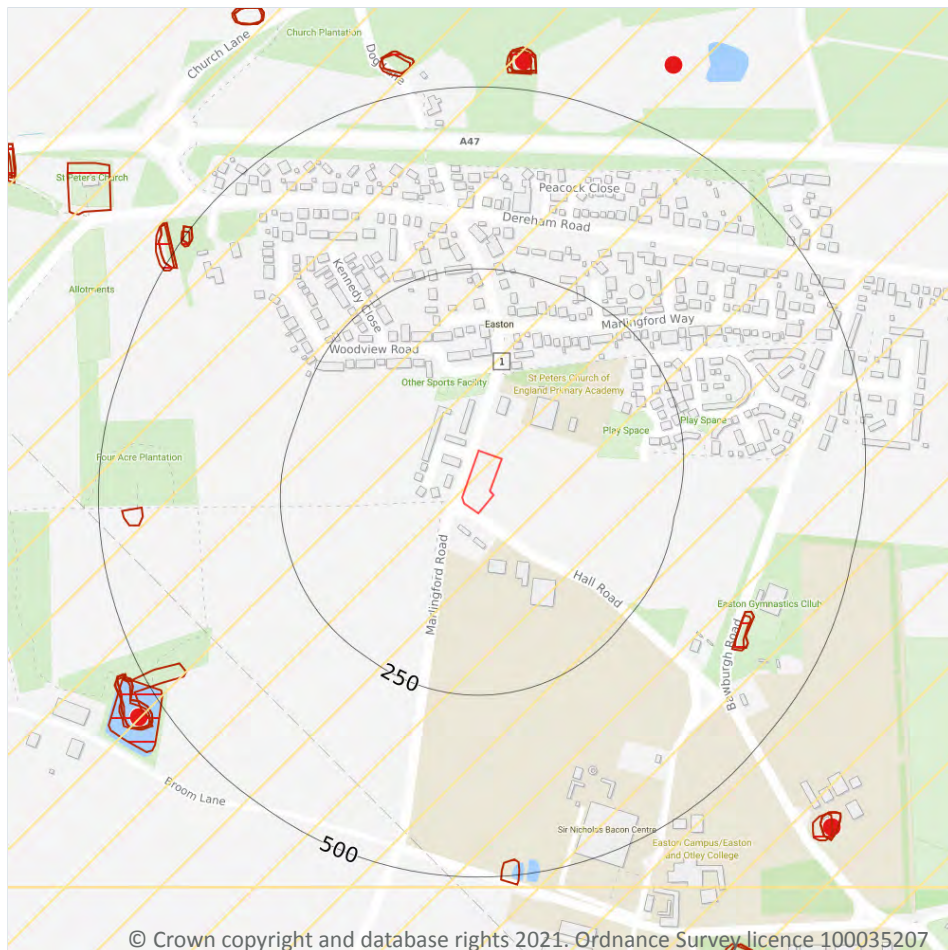
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 94**

Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

### 18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

Records within 250m

0

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

Records within 1000m

3

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**



ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Chalk	A	<b>Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered</b>
4	514m S	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	912m N	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

**Records within 1000m**

**0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

**Records on site**

**0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

**Records on site**

**0**

Areas which could be affected by past, current or future coal mining.

*This data is sourced from the Coal Authority.*



## 18.10 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

*This data is sourced from the Cheshire Brine Subsidence Compensation Board.*

## 18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Mining Searches UK.*

## 18.13 Clay mining

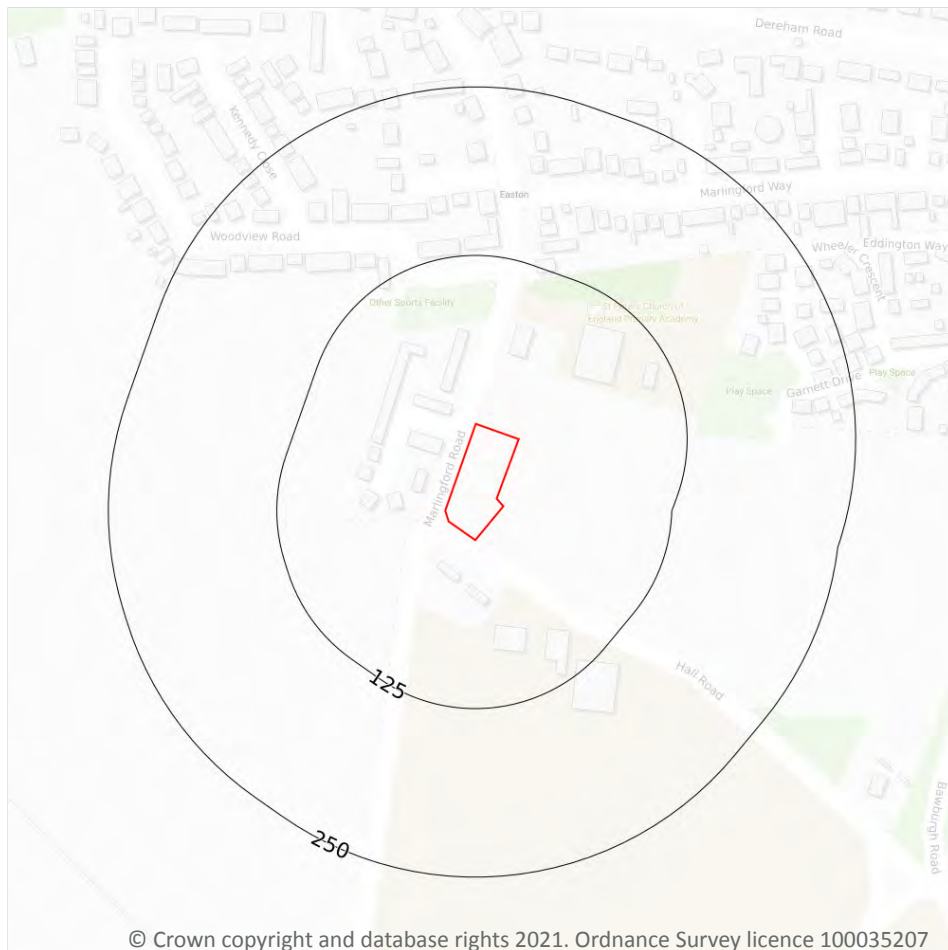
Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

*This data is sourced from the Kaolin and Ball Clay Association (UK).*



## 19 Radon



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- Site Outline**
- Search buffers in metres (m)**
- Greater than 30%
  - Between 10% and 30%
  - Between 5% and 10%
  - Between 3% and 5%
  - Between 1% and 3%
  - Less than 1%

### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 100**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

*This data is sourced from the British Geological Survey and Public Health England.*



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
<b>On site</b>	<b>15 mg/kg</b>	<b>No data</b>	<b>100 mg/kg</b>	<b>60 mg/kg</b>	<b>1.8 mg/kg</b>	<b>20 - 40 mg/kg</b>	<b>15 mg/kg</b>
14m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
15m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
33m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*

### 20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects

### 21.1 Underground railways (London)

**Records within 250m****0**

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

**Records within 250m****0**

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

*This data is sourced from publicly available information by Groundsure.*

### 21.3 Railway tunnels

**Records within 250m****0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

**Records within 250m****0**

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

*This data is sourced from Ordnance Survey/Groundsure.*

### 21.5 Royal Mail tunnels

**Records within 250m****0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m**

**0**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

**Records within 250m**

**0**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

**Records within 500m**

**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

**Records within 500m**

**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

**Records within 500m**

**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

*This data is sourced from HS2 Ltd.*



## Data providers

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

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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** County Series

**Map date:** 1882

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1882  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1882  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

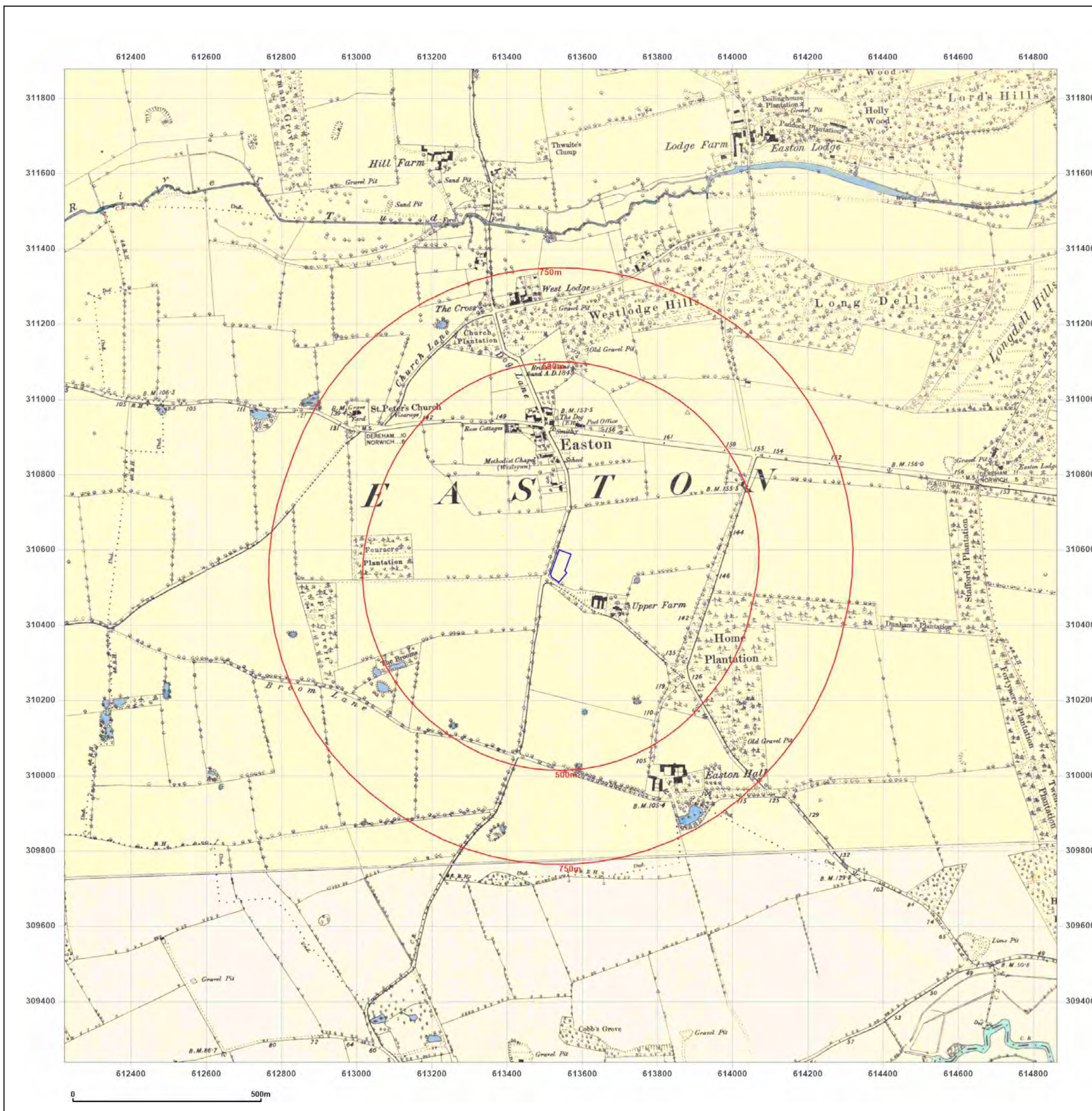


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Map legend available at:  
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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** County Series

**Map date:** 1905

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1881  
 Revised 1905  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

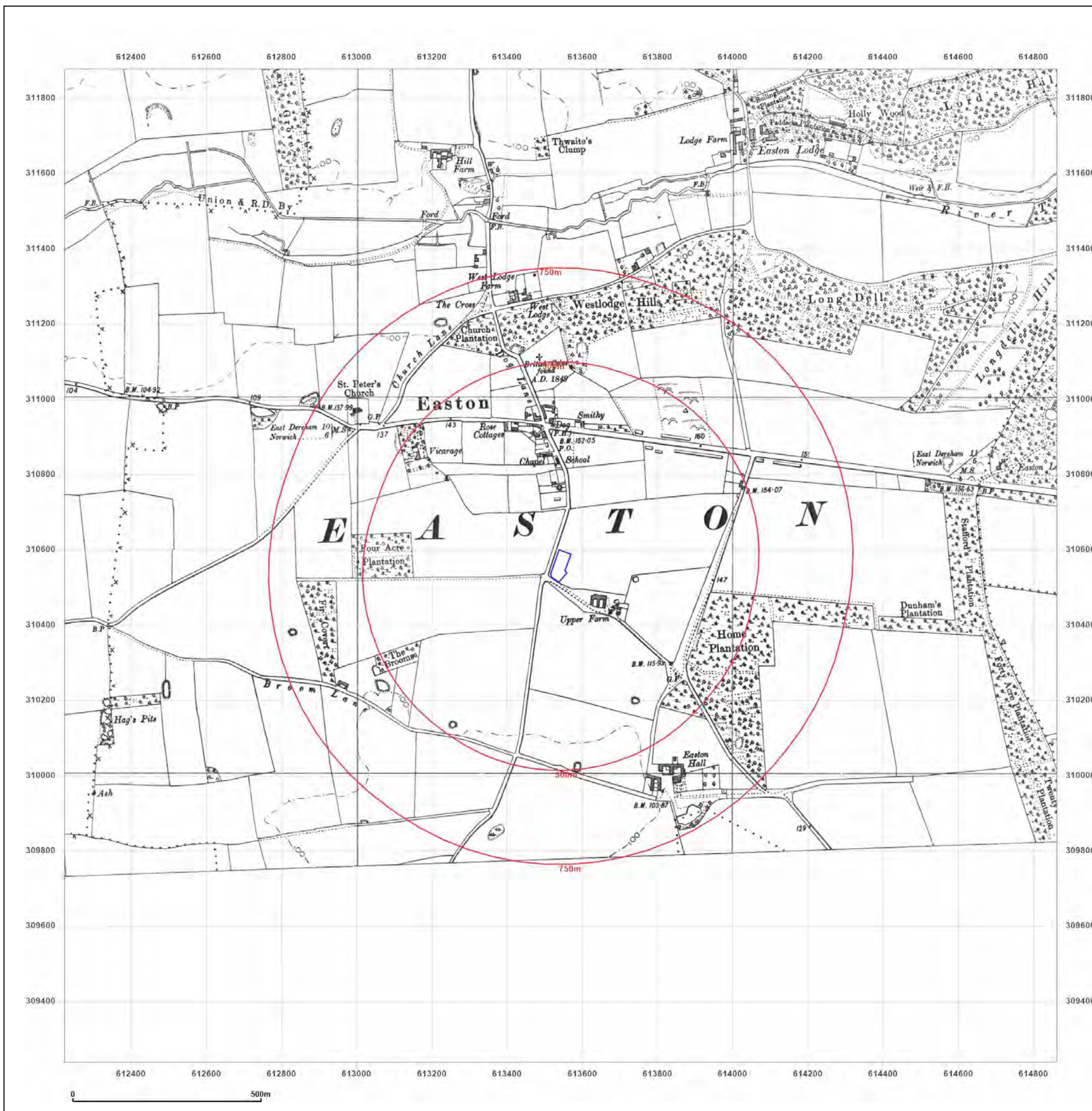


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** County Series

**Map date:** 1905-1908

**Scale:** 1:10,560

**Printed at:** 1:10,560



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 Edition N/A  
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 Levelled N/A

Surveyed 1881  
 Revised 1908  
 Edition 1908  
 Copyright N/A  
 Levelled N/A

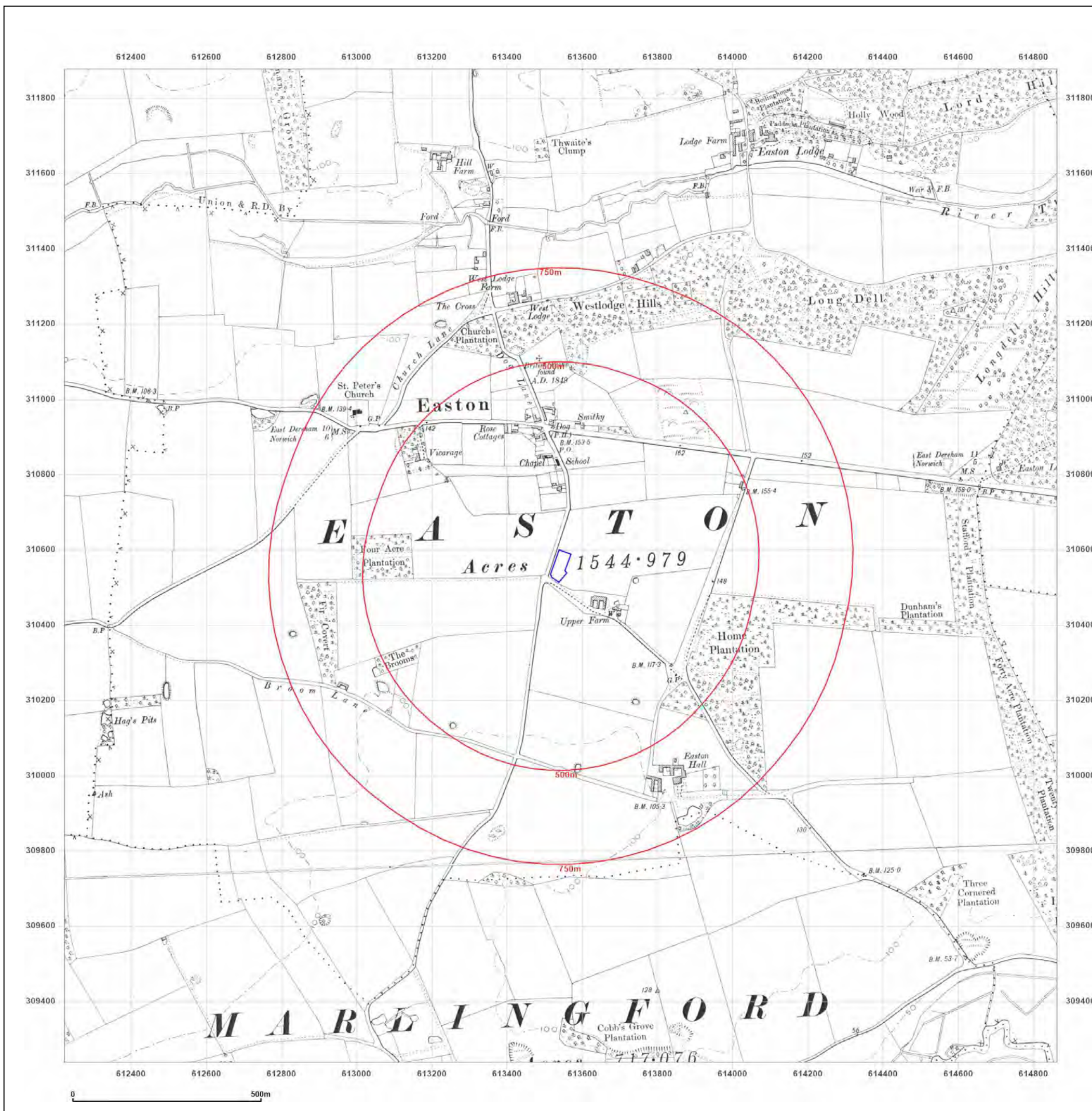


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** County Series

**Map date:** 1950

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1881  
 Revised 1950  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

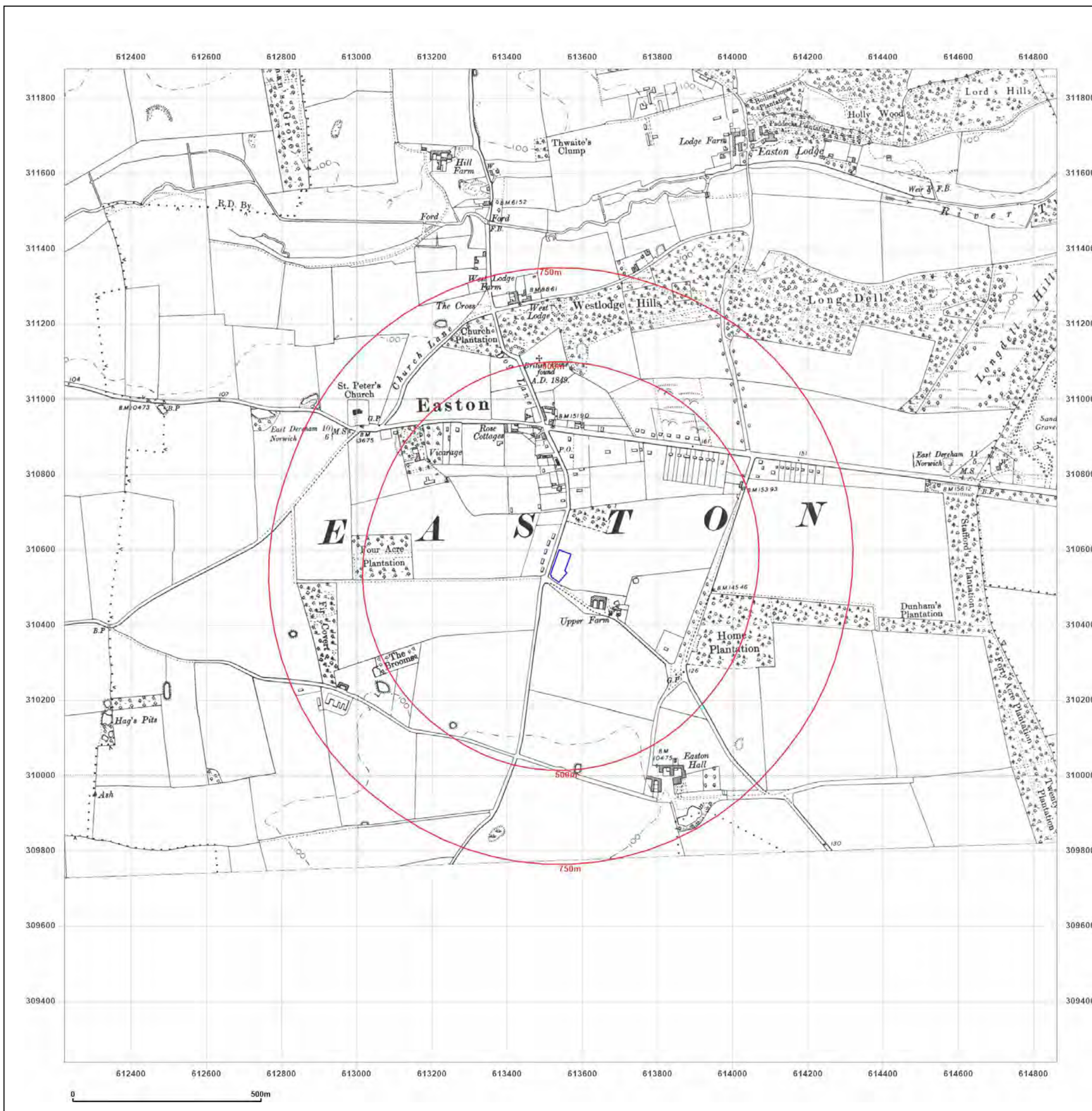


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#### Site Details:

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**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** Provisional

**Map date:** 1956-1957

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed N/A  
 Revised 1956  
 Edition N/A  
 Copyright 1957  
 Levelled N/A

Surveyed 1950  
 Revised 1956  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

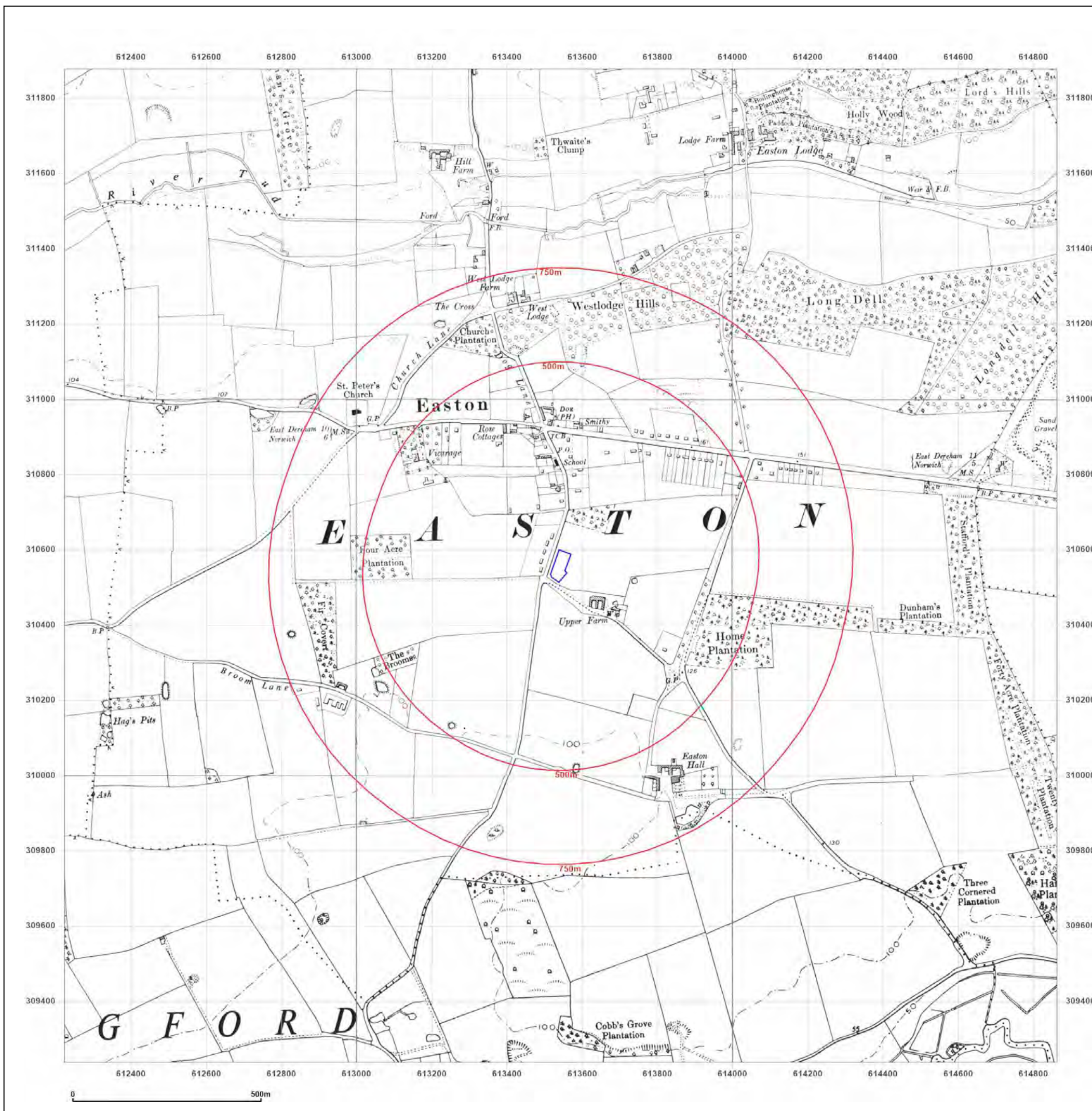


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1973-1976

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1970  
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 Edition N/A  
 Copyright 1976  
 Levelled 1975

Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright N/A  
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**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 2001

**Scale:** 1:10,000

**Printed at:** 1:10,000

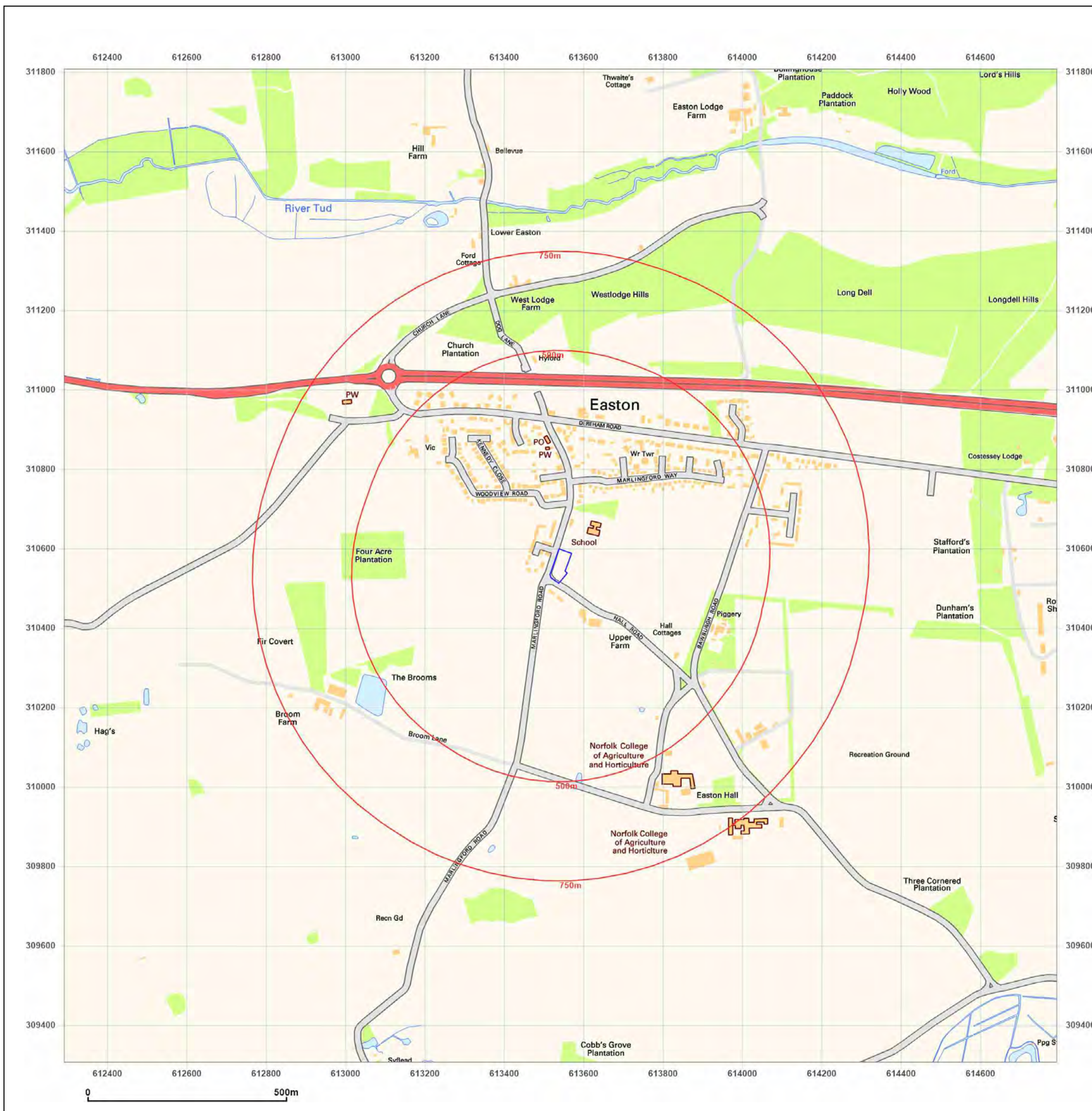


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000

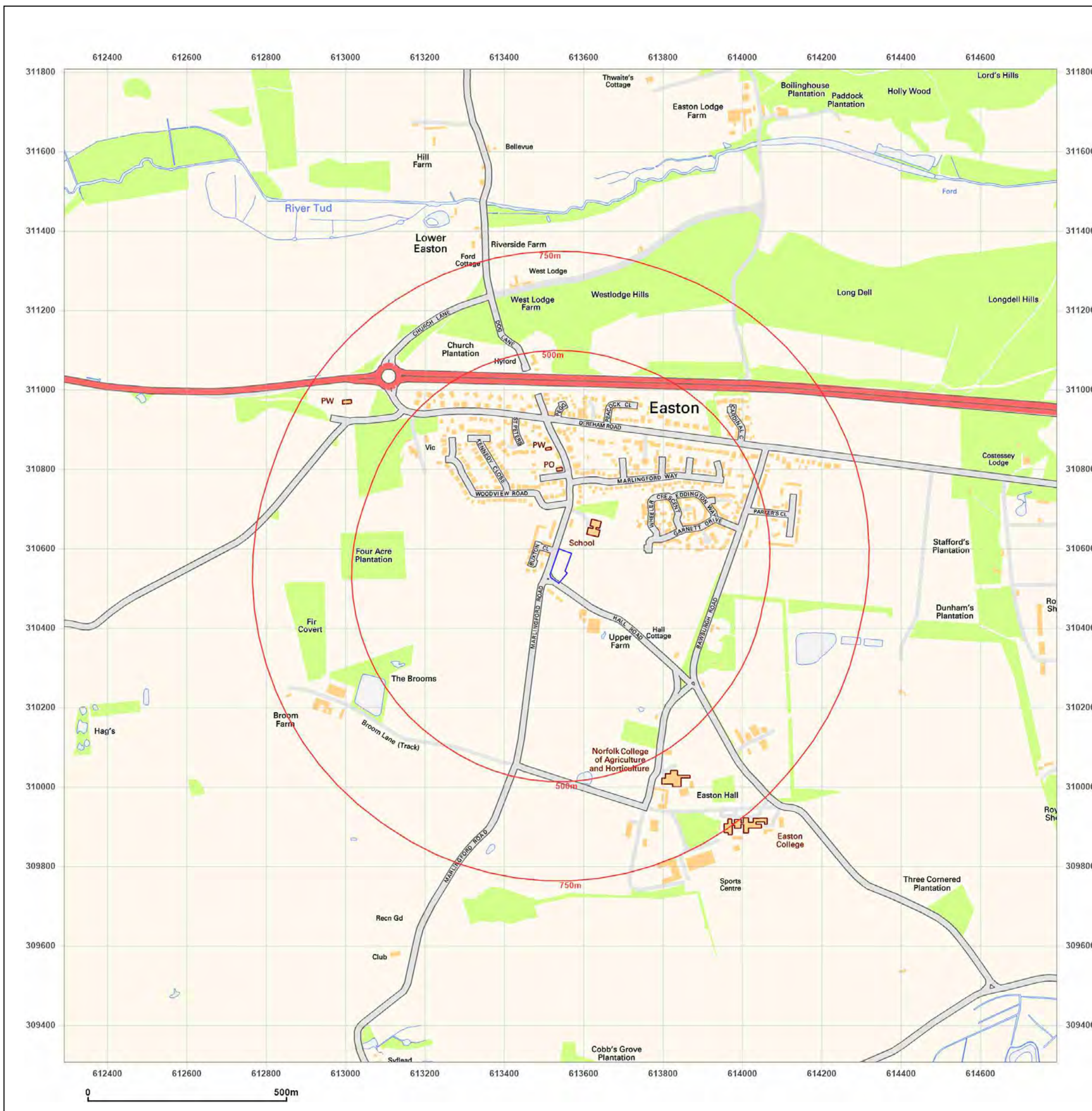


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 2021

**Scale:** 1:10,000

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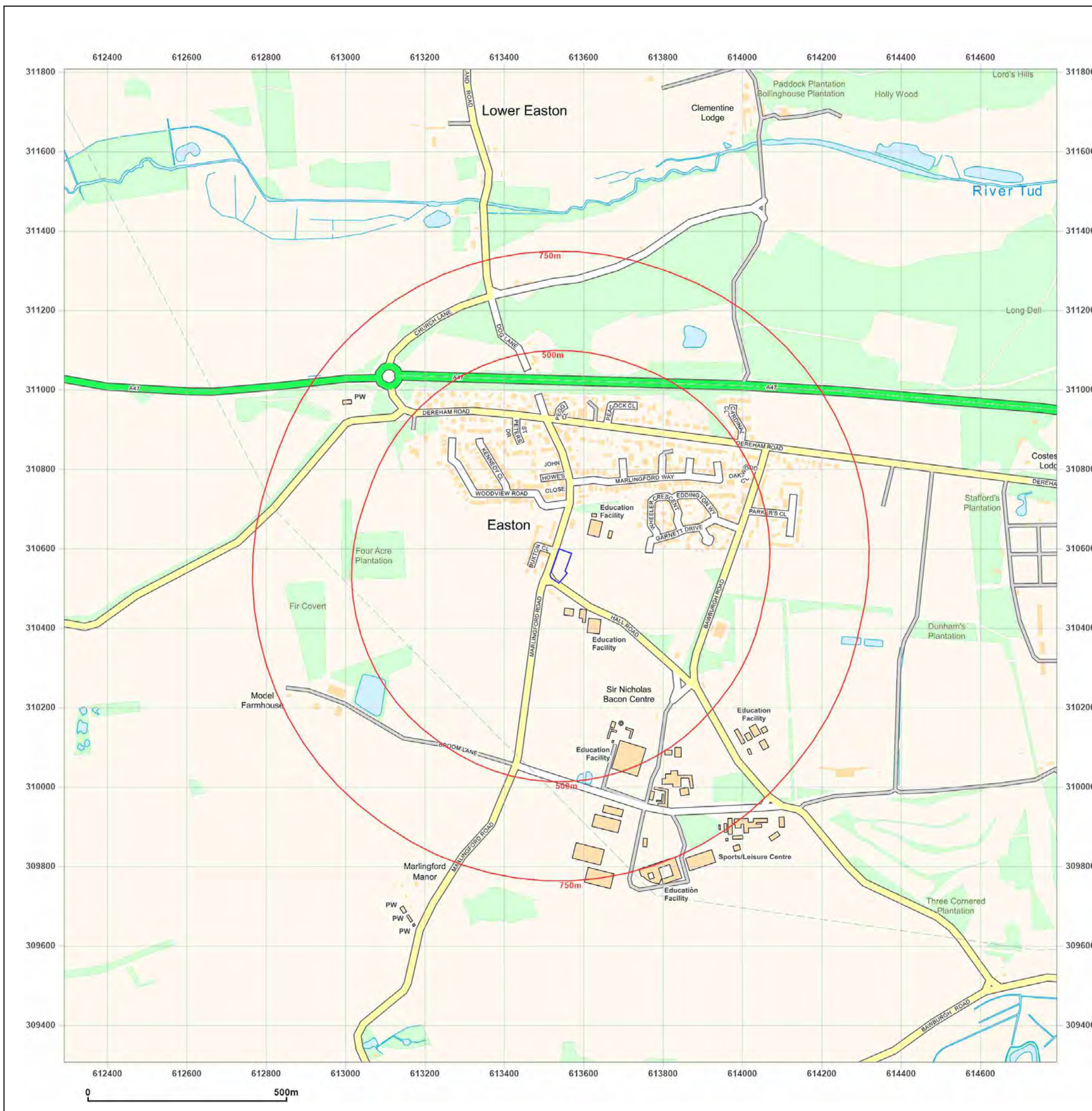


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** County Series

**Map date:** 1882

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1882  
 Revised 1882  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

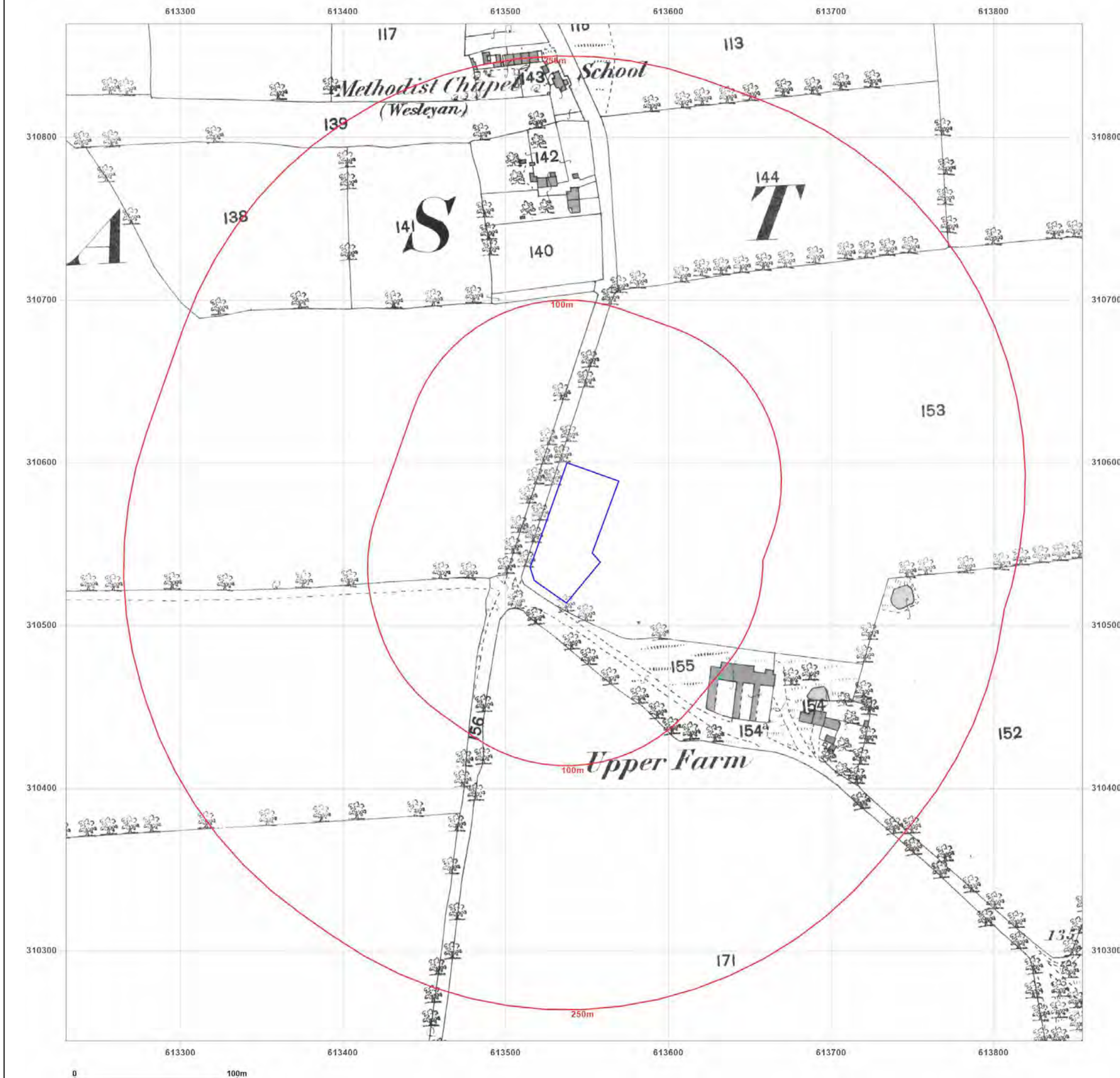


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** County Series

**Map date:** 1905

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

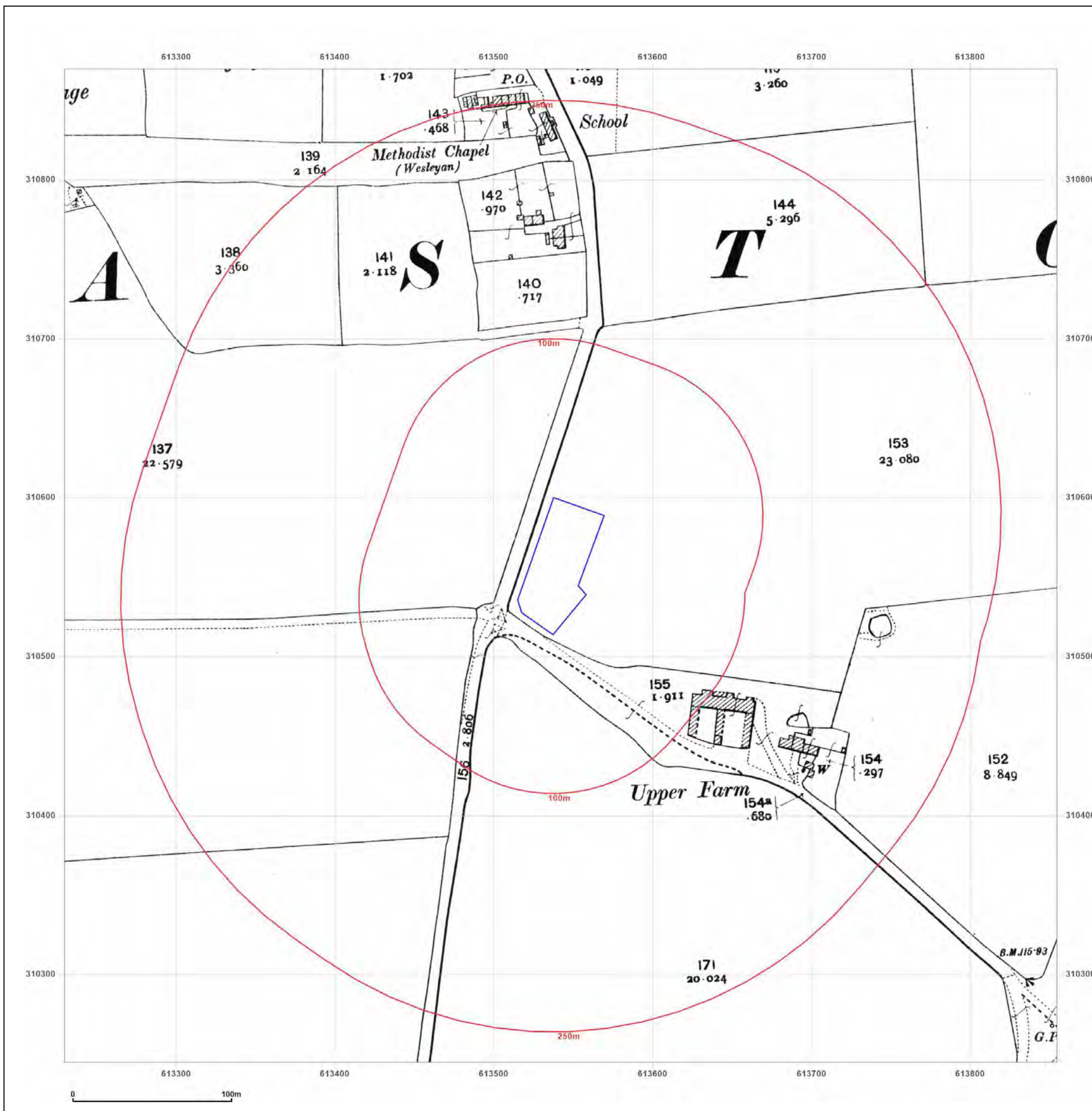


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1970

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1970  
 Revised 1970  
 Edition N/A  
 Copyright 1970  
 Levelled 1969



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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1971

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Edition N/A  
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Report Ref: GS-8135998  
Grid Ref: 613542, 310557

Map Name: National Grid

Map date: 1975

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright N/A  
Levelled N/A

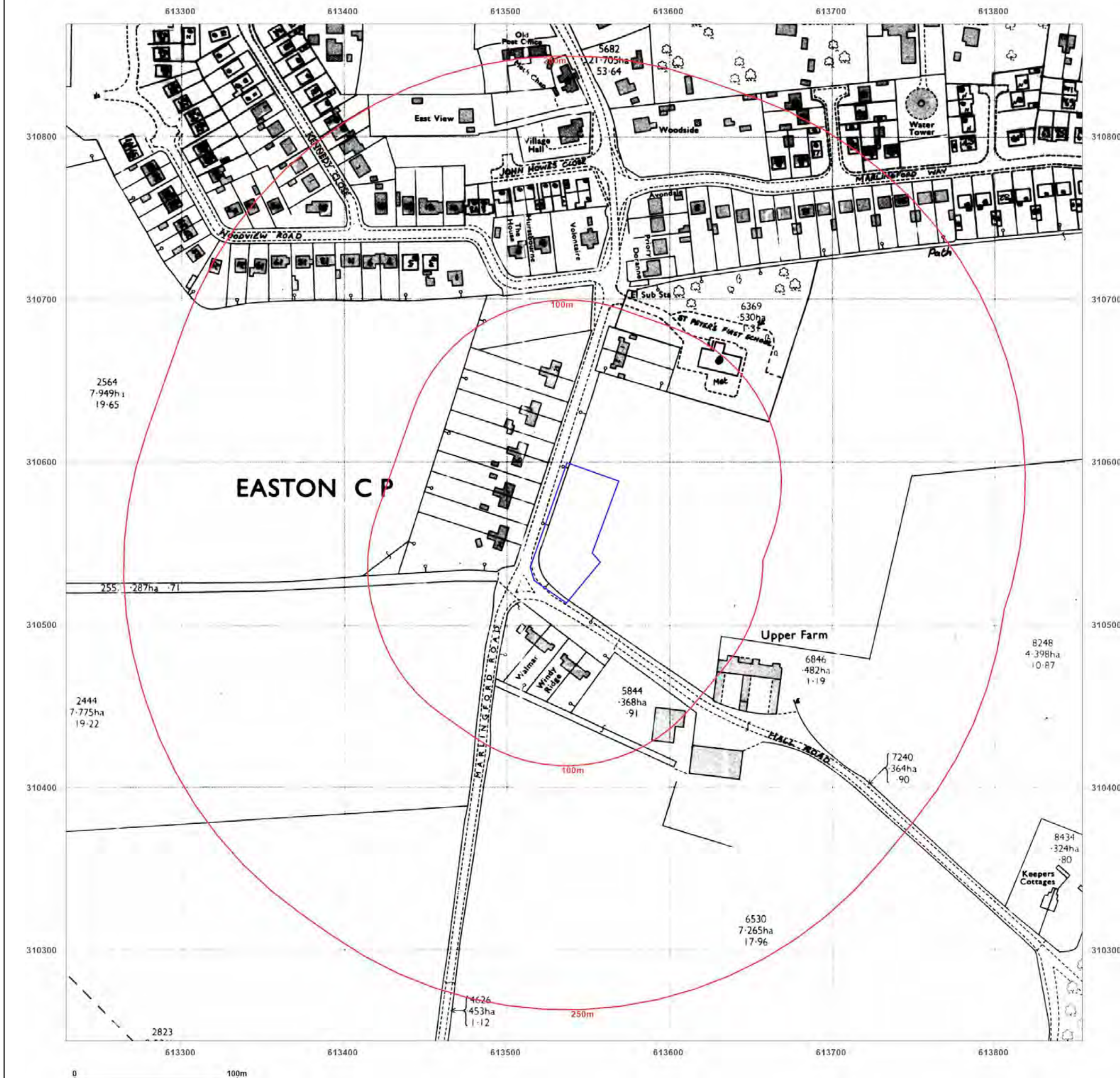


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**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1978

**Scale:** 1:2,500

**Printed at:** 1:2,500



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**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1988

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1988  
 Revised 1988  
 Edition N/A  
 Copyright 1988  
 Levelling 1968

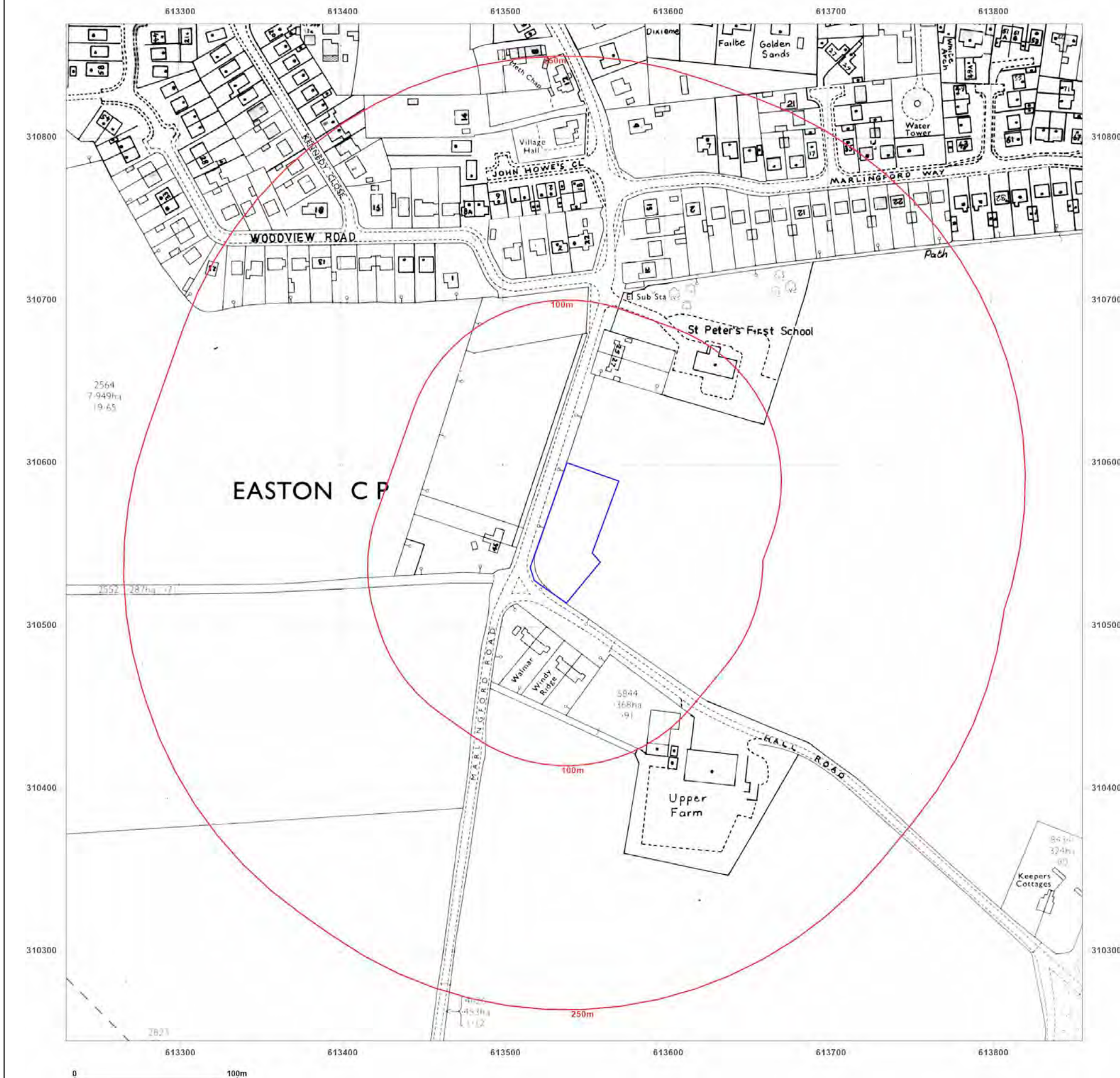


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1991

**Scale:** 1:2,500

**Printed at:** 1:2,500



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**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1994

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1994  
 Revised N/A  
 Edition N/A  
 Copyright 1994  
 Levelled N/A

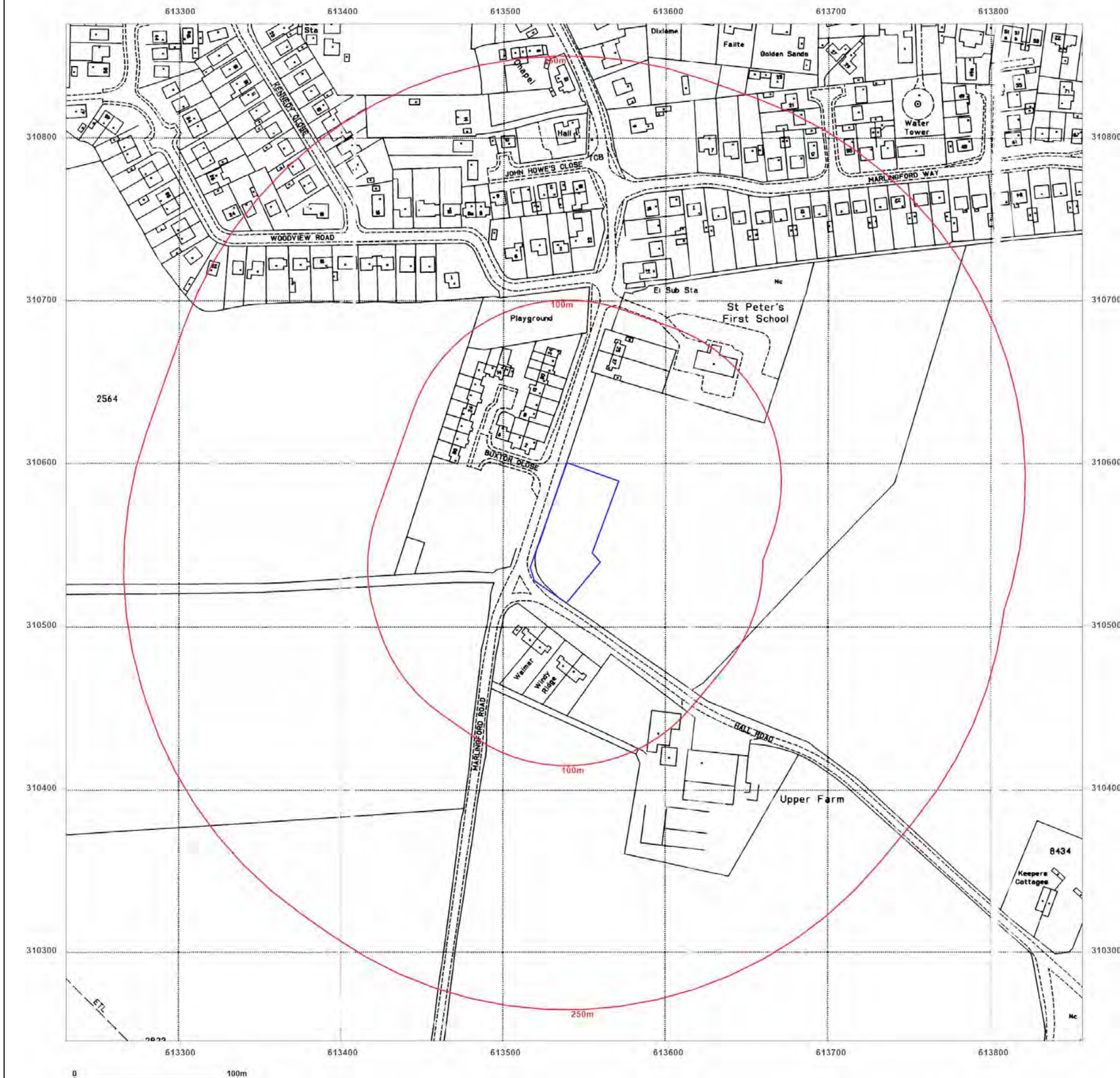


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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1995

**Scale:** 1:2,500

**Printed at:** 1:2,500



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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** National Grid

**Map date:** 1995

**Scale:** 1:2,500

**Printed at:** 1:2,500



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#### Site Details:

EASTON, NR9 5AD

**Client Ref:** 21-68\_Easton\_Community\_Centre  
**Report Ref:** GS-8135998  
**Grid Ref:** 613542, 310557

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250



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# Appendix E – Desk Study Checklist

## Data Table & Extra Research

Item	Summary Comment
Current/recent relevant land uses from Groundsure report	Existing agricultural field, no relevant land uses.
History of the site from old Ordnance Survey mapping, air photography, local knowledge, anecdotal or referenced information	No history on site. Off site 100m east agricultural carcass burial pit and former farm.
Pollution incidents, spills, accidents or regulatory actions from appendices	None known on site. None relevant off-site.
Current or past permits, licences or authorisations from appendices	On site permit suspected mislocated from nearby Upper Farm. None in reality.
Previous investigations or remediation chemical or biological information from previous site monitoring reports	None known.
Natural background contamination information, such as radon gas – Groundsure report	Less than 1% of properties affected - radon protection not required. Soil chemistry data provided.
Audit reports	None known.
Location of historical landfill sites	None relevant. Costessey Landfill 2km north west.
Presence or proximity of sensitive ecological receptors such as special protection areas	Assumed to be covered by other consultants.
Location of any protected areas of countryside	Assumed to be covered by other consultants.
Archaeological or heritage sites such as scheduled ancient monuments	Assumed to be covered by other consultants.
Information on other specific Part 2A receptors such as crops or property	No crops or property on site.
Proposed future changes to land use such as planning applications	Planning application for new community centre.
Made ground, drift deposits, bedrock geological features such as faults	Topsoil over sand and gravel then chalk.
Presence of groundwater - unconfined, confined aquifer	Unconfined principal aquifer at about 30m depth in chalk.
Aquifer type - principal, secondary or unproductive strata	Superficial is Secondary A. Bedrock is Principal.
Sensitive groundwater locations	SPZ3
The vulnerability of the groundwater to pollution	High
The likelihood of perched groundwater	Low, 30m of unsaturated sands.
Abstraction points/wells	Not nearby > 500m surface and potable borehole at Easton College to south. Private water abstractions locally are possible.
Presence of and proximity to other controlled waters such as surface water and coastal, any available water quality information	River Yare 1200m south.
Information on characteristics such as the likely groundwater flow direction	Unknown but flow assumed south.