GEO-ENVIRONMENTAL PHASE 1 DESK STUDY

LAND AT THE REAR OF 188 HEYWOOD OLD ROAD

Middleton
M24 4GR

On behalf of:

Stuart Plant

Report No.: A201219-R01
Date: December 2020

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Document Control Record

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1.0 INTRODUCTION

1.0 Report Context

Adeptus was appointed by Stuart Plant to undertake a Geo-Environmental Phase 1 Desk Study in support of a planning application for development at the site known as Land at the rear of 188 Heywood Old Road. This report details the findings of the study, with conclusions and recommendations relating to the potential risks to human health and the environment identified.

1.1 Objectives and Methodology

This Phase 1 Desk Study report is intended to address the requirements of a Preliminary Investigation under British Standard 10175:2011 'Investigation of Potentially Contaminated Sites – Code of Practice', and a Preliminary Risk Assessment as defined by CIRIA publication C553 'Contaminated land risk assessment - a guide to good practice'. Information on the site history, geology and environmental setting is assessed to identify possible contamination risks associated with soil, groundwater and ground gas conditions at and in proximity to the site.

The objectives of the desk study are to:

- Summarise historical land use on and in the vicinity of the site
- Assess the likelihood of contamination, as well as its potential nature and extent
- Evaluate the geological and environmental setting of the site and immediate surrounds
- Identify potentially significant contaminant linkages
- Develop an initial conceptual site model
- Provide a preliminary assessment of risks in the context of the planned use of the site

1.2 Regulatory Framework

Land contamination is a material consideration under the National Planning Policy Framework (2012). This means that local authorities must take the potential or actual presence of contamination into account when considering planning applications.

"Contamination" is defined in BS 10175:2011 as:

presence of a substance or agent, as a result of human activity, in, on or under land, which has the potential to cause harm or to cause pollution.

Land Contamination Risk Management sets out three essential elements of risk in the context of land contamination, which together are described as a pollutant or contaminant linkage. Preliminary risk assessment is required to qualitatively assess the significance of potential pollutant linkages affecting the site, and establish the requirement or otherwise for further investigation.

1.3 Information Sources and Structure

The following information and data sources are utilised in compiling this report:

- Site reconnaissance

- Environmental Database
- Geological maps of the vicinity
- Environment Agency and Local Authority registers and permissions
- Historical Ordnance Survey Maps
- Web based archive material

The report consists of five main sections; below is an outline of their contents for ease of navigation:

- Section 1: Introduction
- Section 2: Describes the site, its surroundings and findings of any site reconnaissance
- Section 3: Provides a review of historical development on and around the site
- Section 4: Provides an assessment of the site's environmental setting
- Section 5: Describes Initial Conceptual Site Model and Preliminary Risk Assessment
- Section 6: Summarises findings of the assessment and provides any pertinent recommendations

1.4 Previous Reports/Investigations

At the time of writing, no previous reports for the Site have been made available.

2.0 SITE DETAILS

This section provides a review of the land use on and in the vicinity of the Site, with the purpose of identifying potential contaminant sources and environmental constraints.

2.1 Location and Description

Table 2-1: Site Summary

Location	The site is situated in a residential area west of Middleton and east of Heywood Old Road.
Grid Reference	384563 405912 (centred on, approx.)
Area &Shape	0.04 ha – roughly rectangular.
Development Proposals	Erection of a two-bedroom bungalow.



Figure 2-1: Site Location (based on the plan in Appendix B)

2.2 Site Reconnaissance

A site walkover has been caried out and the findings are noted in Table 2-2, below, with any photos included as Appendix C.

Table 2-2: Site Walkover Observations

Date: 18/12/20	**Notes**
Current/Recent Land Use	On-site: Former gardens to No.188, with the floor slab remaining from a former milking parlour to the east along Ellis Lane. Satellite imagery appears to show the parlour intact, with no roof but with what appears to be stalls inside.
	North: There is a similar gated compound belonging to the neighbouring house.
	East: Undeveloped/open land beyond Ellis Lane.
	South: Farmland currently used by livestock.
	West: Dwellings beyond Heywood Old Road.
	Buildings: -

Ground Cover Proportions	Hardstanding: 15%
	Soft Landscaping: 85%
Drainage/Buried Services	None evident during site walkover.
Vegetation & Potential Invasive Species	No signs of vegetation stress were noted. No invasive species were evident during the site walkover. Vegetation removed from the remaining garden to No. 188 was being stored on the concrete slab awaiting disposal.
Fuel and/or Chemical Storage (Tanks/Drums)	None evident during site walkover.
Off Site Potential Contaminant Sources	None evident during site walkover. Satellite imagery suggested the adjacent site may have contained construction materials or similar, but upon closer inspection the items were seen to be gardening related, such as water butts and decorative chimney pots.
Visual or olfactory evidence of contamination	None evident during site walkover.
Asbestos Containing Material (ACM)	None evident during site walkover.
General Comments	We were informed by the developer that the land had formerly been used as a dairy/milking parlour by local farmer, with a concrete block building and internal stalls. The floor slab of the dairy building could be seen to remain, along with the concrete block front wall and steel gates.

3 HISTORICAL DEVELOPMENT

3.1 Historical Map Review

Historical Ordnance (OS) Survey map extracts have been examined to provide a summary of relevant land use on and in proximity to the site, including industrial features within 100m and potential landfills within 250m.

Maps dating from 1848 to 1990 and in the 1:1,250, 1:2,500 and 1:10,560 scales have been reviewed.

Where available, more recent aerial images have also been reviewed for evidence of relevant land use.

Potentially significant findings are summarised in Table 3-3, below.

Table 3-3: Summary of Historical Map Features

Feature	Location (approx.)	Dates/ Source	Comments
Gardens	On-site	1955-present	No. 188 appears between 1938 and 1955, with the site being at the east of a large garden. A small building considered to be a single garage is also shown with access from Ellis Street.
Old Sand Pit/ Unspecified Pit	198m NE	1893-	The feature is of very limited scale, and labelled Pond by 1955. The pit/pond appears to remain today is not considered significant to the development.

3.2 Further Historical Land Use and Industrial Features

Further industrial features highlighted in the environmental data report and not located on the maps reviewed in 3.1 are listed under the headings below.

3.2.1 Historical Tank Database entries within 100m: 0

3.2.2 Historical Energy Features Database entries within 100m: 0

3.2.3 Historical Petrol and Fuel Site Database entries within 100m: 0

3.2.4 Historical Garage and Motor Vehicle Repair Database entries within 100m: 0

3.3 Regulatory Records, Licences and Authorisations

The following is a summary of regulated industrial activities potentially indicating an increased likelihood of the presence of contamination, pollution incidents, and sites determined as contaminated land - as contained in the environmental data report.

3.3.1 Records of historic IPC Authorisations within 100m: 0

3.3.2 Records of Part A(1) and IPPC Authorised Activities within 100m: 0

3.3.3 Records of Red List Discharge Consents within 100m: 0

3.3.4 Records of List 1 Dangerous Substance Inventory Sites within 100m: 0

3.3.5 Records of List 2 Dangerous Substance Inventory Sites within 100m: 0

3.3.6 Records of Part A(2) and Part B Activities (and Enforcements) within 100m: 0

3.3.7 Records of Category 3 or 4 Radioactive Substances Authorisations within 100m: 0

3.3.8 Records of Licensed Discharge Consents within 100m: 0

3.3.9 Records of Water Industry Referrals within 100m: 0

3.3.10 Records of Planning Hazardous Substance Consents and Enforcements within 100m: 0

3.3.11 Records of COMAH & NIHHS sites within 100m: 0

3.3.12 Environment Agency Recorded Pollution Incidents within 100m: 0

3.3.13 Records of National Incidents Recording System, List 1 within 100m: 0

3.3.14 Sites Determined as Contaminated Land under Part 2A EPA 1990 within 100m: 0

3.4 Landfill & Waste Site Records

With reference to the environmental data report, the following landfill and waste sites are identified via historical records, mapping and contemporary regulatory records.

3.4.1 Environment Agency landfill data entries within 250m: 0

3.4.2 Environment Agency historic landfill data entries within 250m: 0

3.4.3 Records of BGS/DoE records of non-operational landfill sites within 250m: 0

3.4.4 Records of landfills from Local Authority and Historical Mapping records within 250m: 0

3.4.5 Records of Waste Treatment, Transfer or Disposal Sites within 100m: 0

3.4.6 Records of Environment Agency Licensed Waste Sites within 100m: 0

3.5 Current Land Use

Contemporary local land uses listed in the environmental data report and with the potential for significant impact on the site are described below.

3.5.1 Records of potentially contaminative industrial sites within 100m: 0

3.5.2 Records of Petrol or Fuel Sites within 100m: 0

3.5.3 Records of National Grid High Voltage Underground Electricity Transmission Cables within 100m: 0

3.5.4 National Grid High Pressure Gas Transmission Pipelines within 100m: 0

4 ENVIRONMENTAL SETTING

The site's setting is reviewed to provide an assessment of receptors potentially affected, and ways in which the environment may act as a pathway for exposure, or contaminant source.

4.1 Geology & Hydrogeology

4.1.1 Published Geology

British Geological Survey (BGS) mapping indicates the site is underlain by the geological sequence summarised in table 4-1, below.

Table 4-1: Summary of Published Geology

Geological Unit	Description	Composition	Location	Aquifer Designation
Superficial/drift	Till	Diamicton	On Site	Secondary Undifferentiated
Solid/bedrock	Pennine Lower Coal Measures Formation and South Wales Lower Coal Measures Formation (Undifferentiated)	Mudstone, Siltstone, Sandstone, Coal, Ironstone and Ferricrete	On Site	Secondary A

4.1.2 Ground Gas Conditions

- The natural geological strata identified above are not considered a significant source of permanent ground gases such as methane or carbon dioxide.

4.1.3 Coal Mining

- The site is located within the Development Low Risk Area, as defined by the Coal Authority.

4.2 Abstraction Licenses and Source Protection Zones

4.2.1 Groundwater Abstraction Licenses within 500m: 0

4.2.2 Surface Water Abstraction Licenses within 500m: 0

4.2.3 Potable Water Abstraction Licenses within 500m: 0

4.2.4 Source Protection Zones within 500m: 0

4.3 Hydrology and Flooding

4.3.1 Surface Water Features

The closest mapped watercourse / waterbody is:

- Unspecified watercourse ca. 137m SW, feeding a reservoir

4.3.2 River and Coastal Flooding

With reference to Environment Agency/Natural Resources Wales Flood Risk Map for Planning - the site is situated in:

- Flood Zone 1

4.4 Ecology & Designated Environmentally Sensitive Sites

Designated Ecological or Heritage Sites within 250m: 0

5 INITIAL CONCEPTUAL SITE MODEL

For a conceptual risk of harm to human health or the environment to exist within the context of CLR11, all of the following elements must be present:

- a source – i.e., a substance (contaminant(s)) that is capable of causing pollution or adverse health effects;
- a receptor - i.e., something which could be adversely affected by the source; and
- a pathway – i.e., a route by which the contaminant could come into contact with, or affect, the receptor.

These three elements are collectively referred to as a pollutant linkage. Risk Assessment is the formal process of evaluating potential source, pathway and receptor characteristics to determine the degree of risk potentially posed.

5.1 Pollutant Linkage Assessment

Based on the information presented in sections 2 and 3, the following potential sources, receptors and relevant pathways for exposure are identified in relation to the development.

5.1.1 On-Site Potential Sources of Contamination

- No potentially significant on-site sources have been identified

5.1.2 Off-Site Potential Sources of Contamination

- No potentially significant off-site sources have been identified

5.1.3 Potential Receptors

- In the absence of any identified potentially significant source of contamination, a pollutant linkage cannot exist, and consideration of receptors is not necessary.

5.1.4 Potential Pathways

- In the absence of any identified potentially significant source of contamination, a pollutant linkage cannot exist, and consideration of pathways is not necessary.

5.2 Preliminary Risk Assessment

As no potentially significant pollutant linkages have been identified, no further risk assessment is undertaken, in line with the requirements of CLR11.

6 CONCLUSIONS

6.1 Risk Assessment Summary

On the basis of the available information, no potentially significant pollutant linkages have been identified and the proposed development is therefore considered potentially to present a low risk to human health and the environment.

The site has compromised an unusually long back garden to 188 Heywood Old Road since the dwellings were constructed between 1938 and 1935, previously being open farmland.

Land to the south remains under agricultural use, and we are informed the gates, front wall and floor slab remaining on the site are that of a farmer milking parlour used by a local farmer.

The established land uses are not considered to be potentially contaminative, and the risk to human and the environment is considered to be low.

Additionally, the proposed dwelling and hardstanding will cover the entire footprint of the former building.

The site setting is considered moderately sensitive due to the proposed residential use and underlying secondary aquifers.

N.B.: This summary forms part of the overall desk study and preliminary risk assessment and should not be viewed or used as an independent report.

6.2 Recommendations

Adeptus considers that no further action is required at this stage.

Construction Phase

During clearance, excavation construction works, a watching brief should be maintained and any evidence of Made Ground, or visual and/or olfactory evidence of contamination recorded.

- End of report.

APPENDIX A - LIMITATIONS

This report was prepared by Adeptus (registered in England: 05908395) for the use of the client, named on page 1. The report has been prepared specifically on the basis of the end use as defined by the client. Any change of end use would necessitate review of this report and its findings. Use of or reliance on this report by any third party is not permitted without our express written agreement, and where this is given, will be subject to our terms and conditions.

We have prepared this report in our professional capacity using reasonable skill, care and diligence. The assessments, conclusions and recommendations within this report pertain to the study site (the extents of which are in Figure 1, below) and the immediate area in continuity with the Site. They are based on the established historical uses, information available at the time of writing and the proposed use of the Site. Where any information supplied by the client or other sources have been utilised, it has been assumed that the information is correct. No responsibility can be accepted by Adeptus for inaccuracies in data supplied by any other party.

Any plans, diagrams, cross sections or images are for illustrative purposes only and should be checked for accuracy on-site. In the event of changes to the proposed end use of the Site, the report may require updating to reflect such changes. Although reference may be made to archaeological, ecological or geotechnical issues, invasive species, flood risk and the presence of asbestos containing materials (ACMs), this report does not constitute an archaeological assessment, ecological assessment, geotechnical assessment, invasive species survey, flood risk assessment or asbestos survey and liability for any claim caused by arising out of or in any way involving asbestos is excluded.

New information relating to environmental matters can come to light after the report has been prepared and changes in conditions and regulatory requirements may occur in future. Either of those factors may change the conclusions presented in our report. If development does not take place within the expected timescales, consideration should be given to reviewing this assessment to confirm that no changes to the site or relevant legislation have taken place. No part of this report is intended to provide legal advice or opinion of any nature.

APPENDIX B – SITE PLAN



APPENDIX C – WALKOVER SURVEY PHOTOS

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



APPENDIX D – ENVIRONMENTAL DATABASE

Groundsure
LOCATION INTELLIGENCE

Enviro
Insight

M24 4GR

Order Details

Date: 18/12/2020

Your ref: 188 Heywood Old Road

Our Ref: GS-7378368

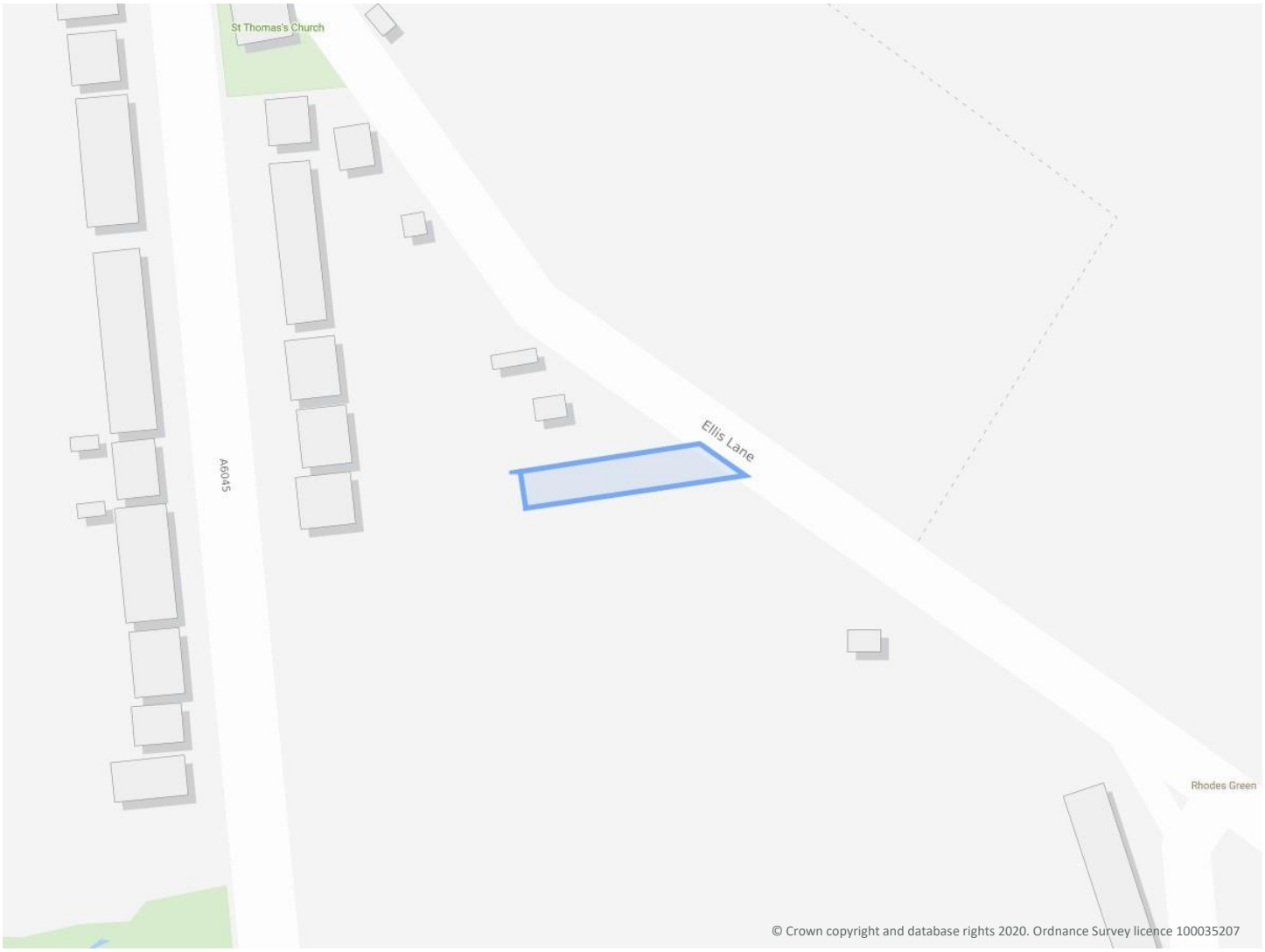
Client: Adeptus Environmental

Site Details

Location: 384563 405912

Area: 0.04 ha

Authority: Rochdale Metropolitan Borough Council



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Summary of findings p. 2

OS MasterMap site plan p.10

Aerial image p. 6

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

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
11	**1.1**	**Historical industrial land uses**	0	0	7	18	-
13	**1.2**	**Historical tanks**	0	0	0	3	-
13	1.3	Historical energy features	0	0	0	0	-
13	1.4	Historical petrol stations	0	0	0	0	-
14	1.5	Historical garages	0	0	0	0	-
14	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
15	**2.1**	**Historical industrial land uses**	0	0	9	29	-
17	**2.2**	**Historical tanks**	0	0	0	3	-
17	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
18	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	0	0	-
20	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
20	**3.4**	**Historical landfill (EA/NRW records)**	0	0	0	1	-
20	3.5	Historical waste sites	0	0	0	0	-
20	3.6	Licensed waste sites	0	0	0	0	-
21	**3.7**	**Waste exemptions**	0	0	1	6	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
22	**4.1**	**Recent industrial land uses**	0	0	1	-	-
23	4.2	Current or recent petrol stations	0	0	0	0	-
23	4.3	Electricity cables	0	0	0	0	-
23	4.4	Gas pipelines	0	0	0	0	-
23	4.5	Sites determined as Contaminated Land	0	0	0	0	-

23	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
24	4.7	Regulated explosive sites	0	0	0	0	-
24	4.8	Hazardous substance storage/usage	0	0	0	0	-
24	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
24	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
24	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
25	4.12	Radioactive Substance Authorisations	0	0	0	0	-
25	**4.13**	**Licensed Discharges to controlled waters**	0	0	1	2	-
25	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
26	4.15	Pollutant release to public sewer	0	0	0	0	-
26	4.16	List 1 Dangerous Substances	0	0	0	0	-
26	4.17	List 2 Dangerous Substances	0	0	0	0	-
26	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
26	4.19	Pollution inventory substances	0	0	0	0	-
27	4.20	Pollution inventory waste transfers	0	0	0	0	-
27	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Geology (basic)	
28	**5.1**	**Superficial geology (625k)**	Identified (within 500m)
28	**5.2**	**Bedrock geology (625k)**	Identified (within 500m)

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
29	**6.1**	**Superficial aquifer**	Identified (within 500m)				
31	**6.2**	**Bedrock aquifer**	Identified (within 500m)				
33	**6.3**	**Groundwater vulnerability**	Identified (within 50m)				
34	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
34	6.5	Groundwater vulnerability- local information	None (within 0m)				
35	6.6	Groundwater abstractions	0	0	0	0	0
36	**6.7**	**Surface water abstractions**	0	0	0	0	1
36	6.8	Potable abstractions	0	0	0	0	0
36	6.9	Source Protection Zones	0	0	0	0	-

37	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
38	**7.1**	**Water Network (OS MasterMap)**	0	0	4	-	-
39	**7.2**	**Surface water features**	0	0	1	-	-
39	**7.3**	**WFD Surface water body catchments**	1	-	-	-	-
40	**7.4**	**WFD Surface water bodies**	0	0	0	-	-
40	**7.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
41	8.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
41	8.2	Historical Flood Events	0	0	0	-	-
41	8.3	Flood Defences	0	0	0	-	-
41	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
42	8.5	Flood Storage Areas	0	0	0	-	-
43	8.6	Flood Zone 2	None (within 50m)				
43	8.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
44	**9.1**	**Surface water flooding**	1 in 1000 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
46	**10.1**	**Groundwater flooding**	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
47	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
48	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
48	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
48	11.4	Special Protection Areas (SPA)	0	0	0	0	0
48	11.5	National Nature Reserves (NNR)	0	0	0	0	0
49	**11.6**	**Local Nature Reserves (LNR)**	0	0	0	0	3
49	11.7	Designated Ancient Woodland	0	0	0	0	0
49	11.8	Biosphere Reserves	0	0	0	0	0
50	11.9	Forest Parks	0	0	0	0	0

50	11.10	Marine Conservation Zones	0	0	0	0	0
50	**11.11**	**Green Belt**	0	0	1	1	1
50	11.12	Proposed Ramsar sites	0	0	0	0	0
51	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
51	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
51	11.15	Nitrate Sensitive Areas	0	0	0	0	0
51	**11.16**	**Nitrate Vulnerable Zones**	1	0	1	2	0
53	**11.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
54	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
55	12.1	World Heritage Sites	0	0	0	-	-
55	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
55	12.3	National Parks	0	0	0	-	-
55	12.4	Listed Buildings	0	0	0	-	-
56	12.5	Conservation Areas	0	0	0	-	-
56	12.6	Scheduled Ancient Monuments	0	0	0	-	-
56	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
57	**13.1**	**Agricultural Land Classification**	Grade 4 (within 250m)				
58	13.2	Open Access Land	0	0	0	-	-
58	13.3	Tree Felling Licences	0	0	0	-	-
58	**13.4**	**Environmental Stewardship Schemes**	0	0	3	-	-
58	**13.5**	**Countryside Stewardship Schemes**	0	0	2	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
60	**14.1**	**Priority Habitat Inventory**	0	0	2	-	-
61	14.2	Habitat Networks	0	0	0	-	-
61	14.3	Open Mosaic Habitat	0	0	0	-	-
61	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 0.04ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.04ha

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 0.04ha

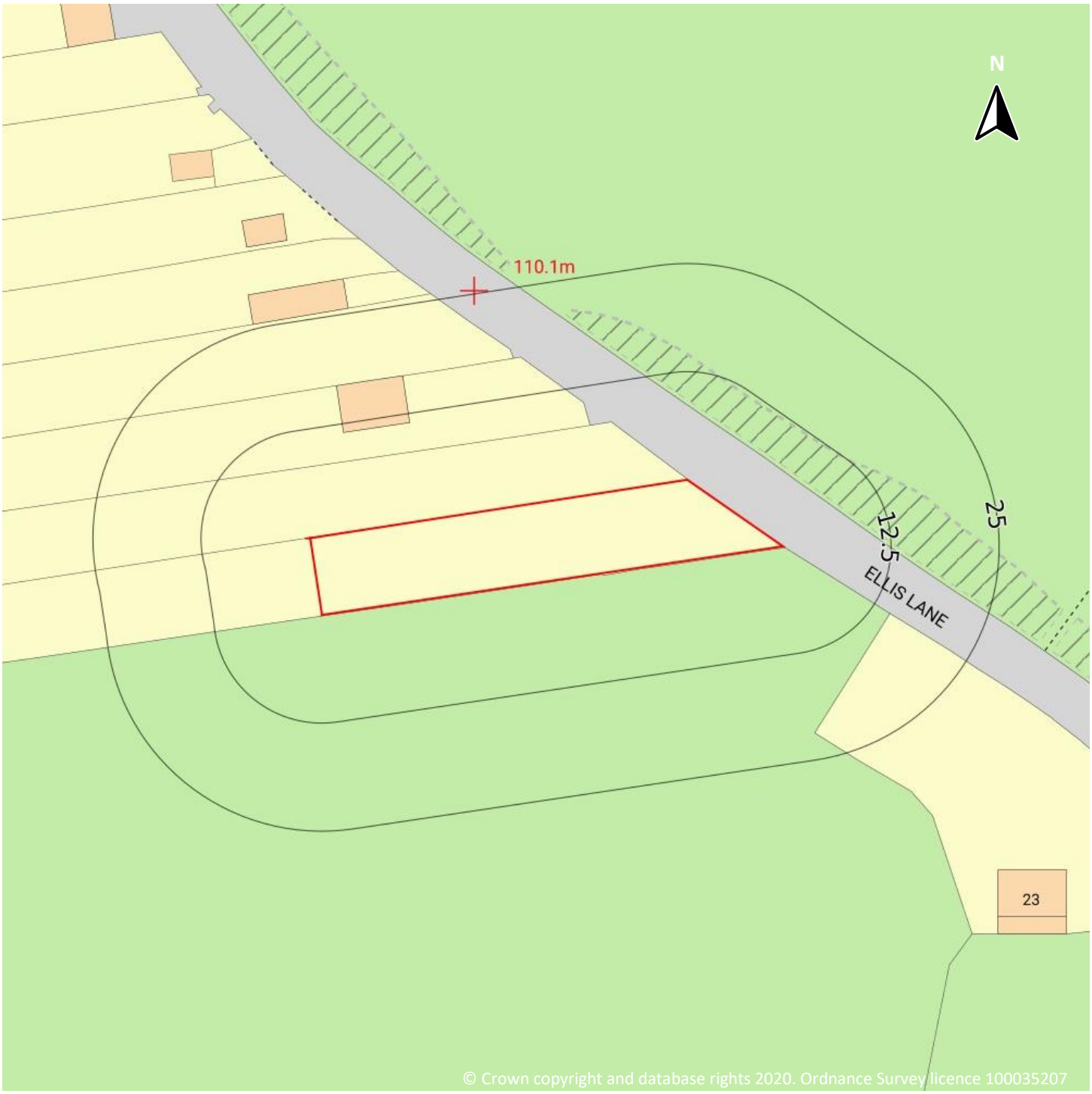
Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

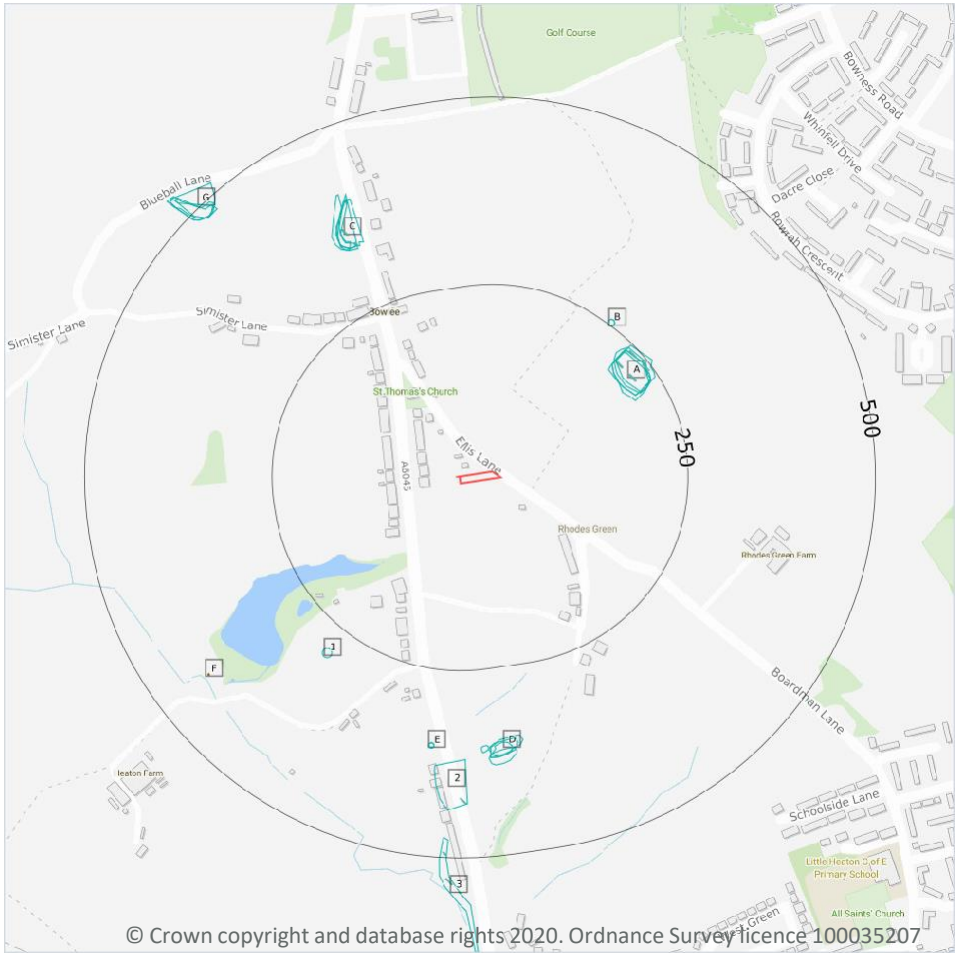
Site Area: 0.04ha

OS MasterMap site plan



Site Area: 0.04ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	25

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 11**

ID	Location	Land use	Dates present	Group ID
A	198m NE	Old Sand Pit	1891	682508

ID	Location	Land use	Dates present	Group ID
A	202m NE	Unspecified Pit	1907	750173
A	202m NE	Unspecified Pit	1923	751268
A	207m NE	Unspecified Pit	1974 - 1981	721247
A	210m NE	Unspecified Pit	1955 - 1965	759952
B	249m NE	Unspecified Tank	1932	768846
B	249m NE	Unspecified Tank	1915	788630
1	282m SW	Unspecified Tank	1891	674876
C	333m NW	Unspecified Pit	1923 - 1932	699537
C	336m NW	Unspecified Ground Workings	1891	724164
C	336m NW	Unspecified Pit	1938 - 1955	708231
C	337m NW	Unspecified Ground Workings	1907 - 1915	769324
D	344m S	Unspecified Pit	1938 - 1955	714997
D	347m S	Unspecified Pit	1932	698150
E	349m S	Unspecified Tank	1932	719003
E	349m S	Unspecified Tank	1907 - 1915	726036
D	350m S	Unspecified Pit	1907 - 1923	736182
D	352m S	Sand Pit	1851	643939
D	359m S	Old Sand Pit	1891	682526
2	369m S	Cuttings	1932	642584
3	473m S	Unspecified Ground Workings	1932	648276
G	482m NW	Unspecified Ground Workings	1965 - 1981	694782
G	482m NW	Unspecified Ground Workings	1955	785971
G	482m NW	Unspecified Ground Workings	1938	736565
G	482m NW	Unspecified Ground Workings	1915 - 1932	739259

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	3

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

Features are displayed on the Past land use map on **page 11**

ID	Location	Land use	Dates present	Group ID
F	421m SW	Unspecified Tank	1954	104179
F	421m SW	Unspecified Tank	1967	90344
F	421m SW	Unspecified Tank	1954	101331

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

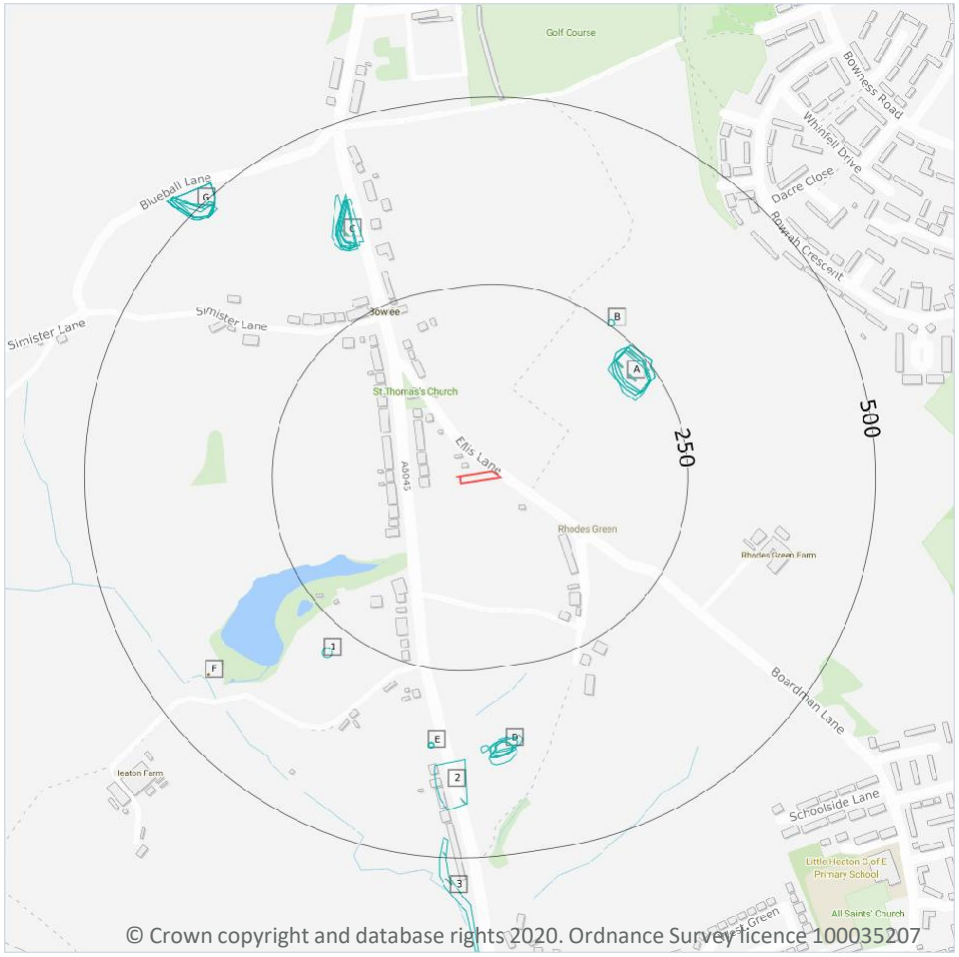
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	38

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 15**

ID	Location	Land Use	Date	Group ID
A	198m NE	Old Sand Pit	1891	682508
A	202m NE	Unspecified Pit	1907	750173
A	202m NE	Unspecified Pit	1923	751268

ID	Location	Land Use	Date	Group ID
A	207m NE	Unspecified Pit	1981	721247
A	207m NE	Unspecified Pit	1974	721247
A	210m NE	Unspecified Pit	1965	759952
A	210m NE	Unspecified Pit	1955	759952
B	249m NE	Unspecified Tank	1932	768846
B	249m NE	Unspecified Tank	1915	788630
1	282m SW	Unspecified Tank	1891	674876
C	333m NW	Unspecified Pit	1923	699537
C	336m NW	Unspecified Ground Workings	1891	724164
C	336m NW	Unspecified Pit	1955	708231
C	337m NW	Unspecified Ground Workings	1915	769324
C	337m NW	Unspecified Ground Workings	1907	769324
C	337m NW	Unspecified Pit	1938	708231
C	339m NW	Unspecified Pit	1932	699537
D	344m S	Unspecified Pit	1955	714997
D	347m S	Unspecified Pit	1932	698150
D	347m S	Unspecified Pit	1938	714997
E	349m S	Unspecified Tank	1932	719003
E	349m S	Unspecified Tank	1915	726036
E	349m S	Unspecified Tank	1907	726036
D	350m S	Unspecified Pit	1915	736182
D	350m S	Unspecified Pit	1907	736182
D	350m S	Unspecified Pit	1923	736182
D	352m S	Sand Pit	1851	643939
D	359m S	Old Sand Pit	1891	682526
2	369m S	Cuttings	1932	642584
3	473m S	Unspecified Ground Workings	1932	648276
G	482m NW	Unspecified Ground Workings	1981	694782

ID	Location	Land Use	Date	Group ID
G	482m NW	Unspecified Ground Workings	1974	694782
G	482m NW	Unspecified Ground Workings	1965	694782
G	482m NW	Unspecified Ground Workings	1955	785971
G	482m NW	Unspecified Ground Workings	1932	739259
G	482m NW	Unspecified Ground Workings	1938	736565
G	484m NW	Unspecified Ground Workings	1915	739259
G	484m NW	Unspecified Ground Workings	1923	739259

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**3**

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

Features are displayed on the Past land use - un-grouped map on **page 15**

ID	Location	Land Use	Date	Group ID
F	421m SW	Unspecified Tank	1954	101331
F	421m SW	Unspecified Tank	1967	90344
F	421m SW	Unspecified Tank	1954	104179

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**0**

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

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

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

ID	Location	Details		
3	468m N	Site Address: Bowlee Sand QuarryBluebell Lane, Bluebell Lane, Bowlee, Bury Licence Holder Address: -	Waste Licence: - Site Reference: RD/LIC/338/84 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Terry Adams Limited First Recorded - Last Recorded: -

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	7

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

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

ID	Location	Site	Reference	Category	Sub-Category	Description
1	223m SE	Heaton Farm Heywood Old Road MANCHESTER M24 4RP	EPR/GE5256RU/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
A	352m SE	-	WEX130071	Storing waste exemption	On a farm	Storage of sludge
A	352m SE	-	WEX151546	Storing waste exemption	On a Farm	Storage of sludge
A	352m SE	-	WEX227720	Storing waste exemption	On a farm	Storage of sludge
B	402m SW	Heaton Farm Heywood Old Road MANCHESTER M24 4RP	EPR/GE5856RW/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
B	434m SW	-	WEX107425	Using waste exemption	On a farm	Use of waste in construction
2	439m W	-	WEX228806	Storing waste exemption	On a farm	Storage of sludge

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 Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	1

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 22**

ID	Location	Company	Address	Activity	Category
A	201m N	Electricity Sub Station	Greater Manchester, M24	Electrical Features	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	0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	3

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 22**

ID	Location	Address	Details	
A	187m N	238 HEYWOOD OLD ROAD, MIDDLETON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0173/2092 Permit Version: 1 Receiving Water: TRIB OF LANGLEY BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/11/1973 Effective Date: 07/11/1973 Revocation Date: -
1	387m N	JOLLY BUTCHER INN, BOWLEE, MIDDLETON, MANCHESTER, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 01M/211 Permit Version: 1 Receiving Water: UNKNOWN	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 12/12/1960 Revocation Date: 01/04/1998
2	433m N	276 HEYWOOD OLD RD, MIDDLETON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0172/1714 Permit Version: 1 Receiving Water: LANGLEY BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 05/05/1972 Effective Date: 05/05/1972 Revocation Date: -

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	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	1

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

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

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

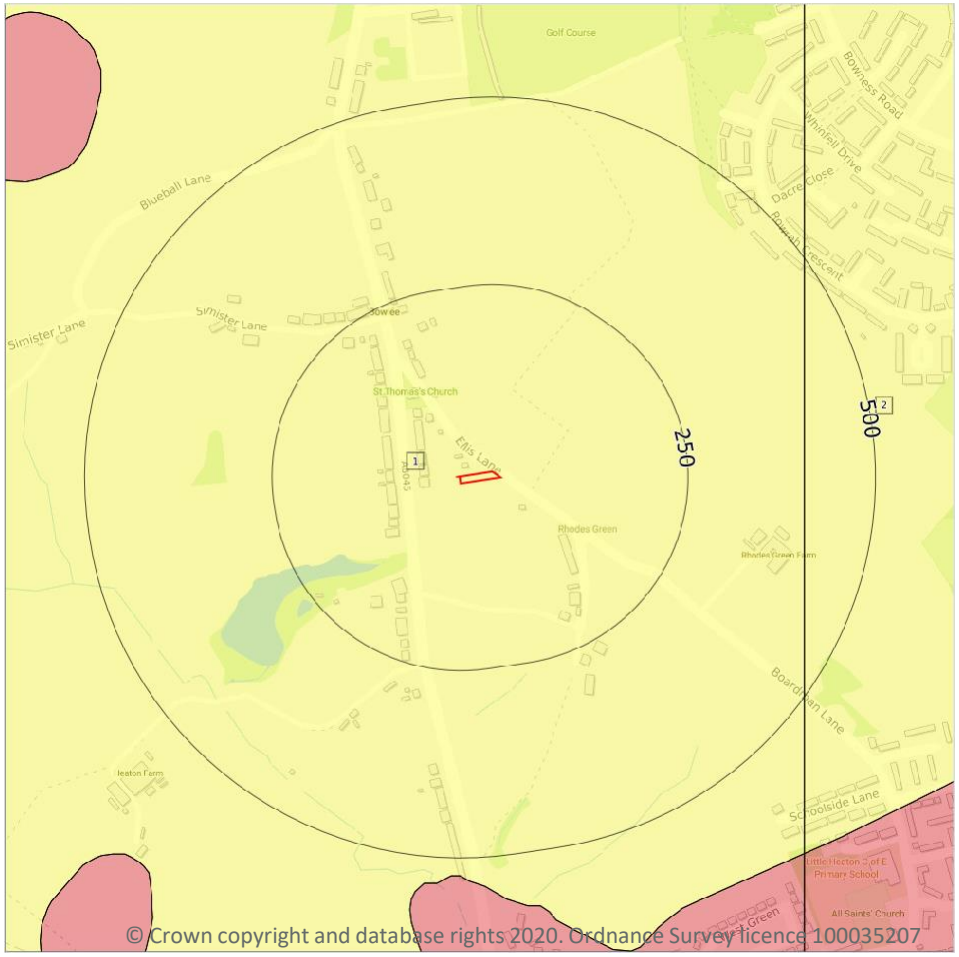
Records within 500m	2

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

Location	Lex code	Description	Rock type
On site	**PSLCM-MSCI**	**PENNINE LOWER COAL MEASURES FORMATION AND SOUTH WALES LOWER COAL MEASURES FORMATION (UNDIFFERENTIATED)**	**MUDSTONE, SILTSTONE, SANDSTONE, COAL, IRONSTONE AND FERRICRETE**
475m W	PSMCM-MSCI	PENNINE MIDDLE COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE, SANDSTONE, COAL, IRONSTONE AND FERRICRETE

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	2

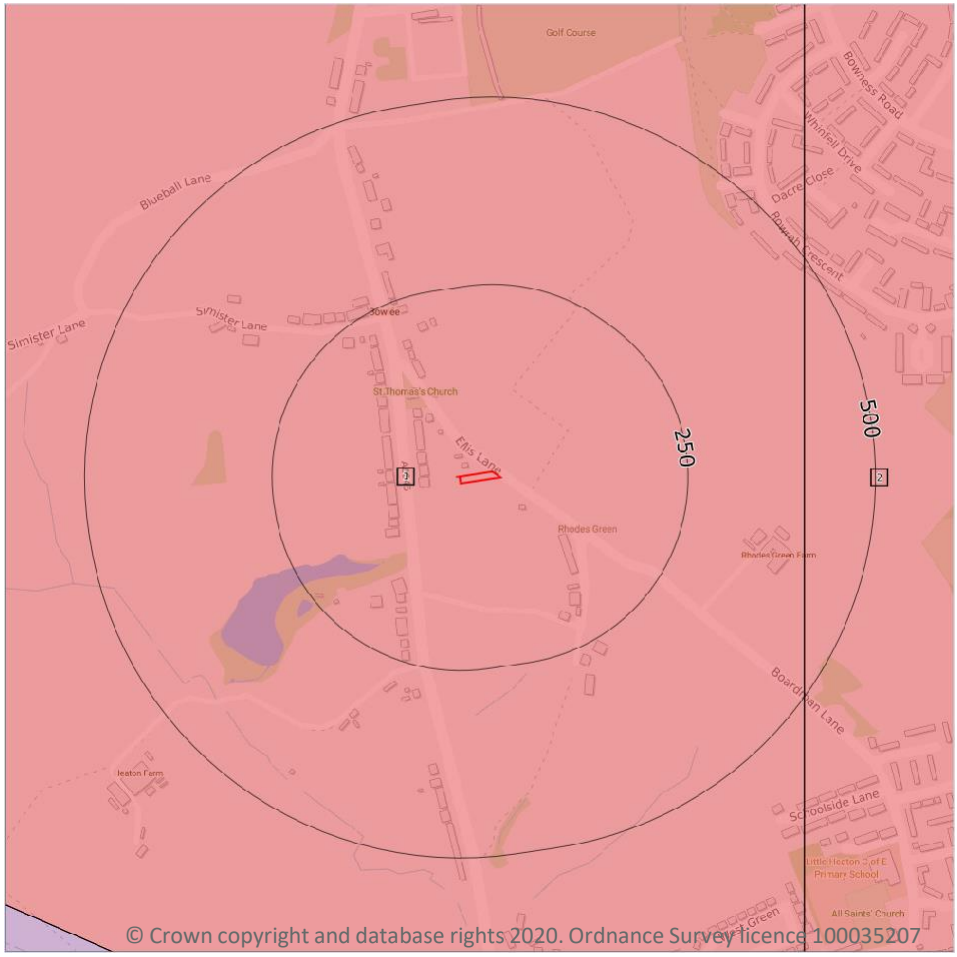
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 29**

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
2	405m E	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

6.2 Bedrock aquifer

Records within 500m	2

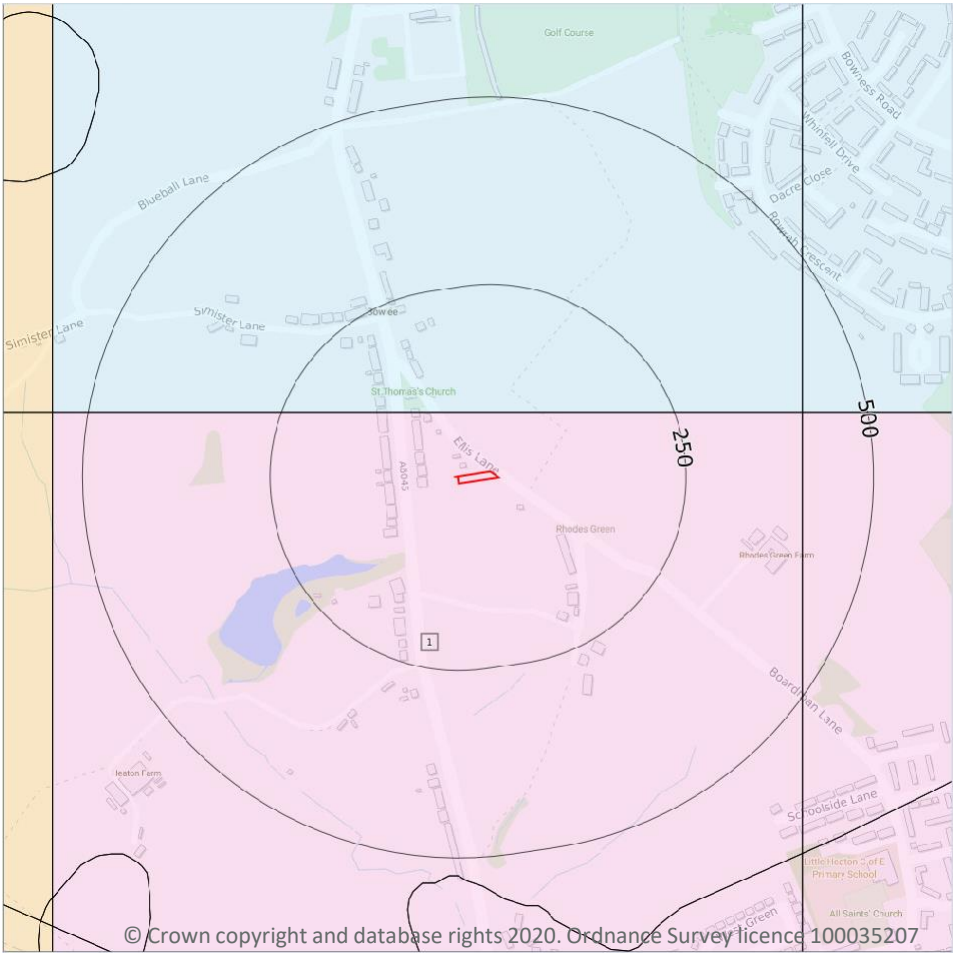
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 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	405m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	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 33**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: <40% Dilution value: >550mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**

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

6.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

6.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

6.6 Groundwater abstractions

Records within 2000m	0

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.

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

6.7 Surface water abstractions

Records within 2000m	1

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 35**

ID	Location	Details	
-	1322m E	Status: Active Licence No: 2569005055 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE AT NORTH MANCHESTER GOLF C Data Type: Point Name: THE NEW NORTH MANCHESTER GOLF CLUB LTD Easting: 385900 Northing: 405700	Annual Volume (m^3): 2,273 Max Daily Volume (m^3): 45.46 Original Application No: - Original Start Date: 21/02/1977 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -

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

6.8 Potable abstractions

Records within 2000m	0

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.

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

6.9 Source Protection Zones

Records within 500m	0

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

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

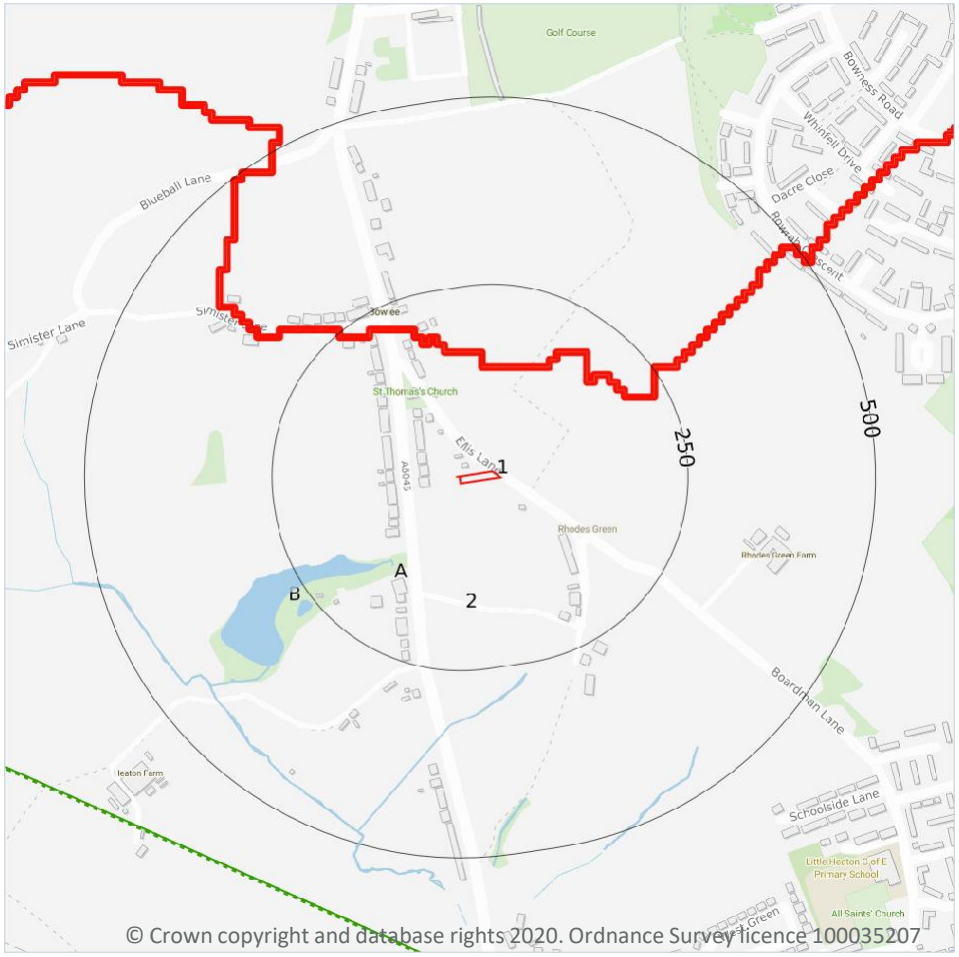
6.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

7 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	4

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

Features are displayed on the Hydrology map on **page 38**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	137m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
A	137m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	144m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	145m SW	Reservoir. An area of non-tidal water used for storing water.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	**1**

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

Features are displayed on the Hydrology map on **page 38**

This data is sourced from the Ordnance Survey.

7.3 WFD Surface water body catchments

Records on site	**1**

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 38**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River WB catchment**	**Irk (Wince to Irwell)**	**GB112069061131**	**Roch Irk Medlock**	**Irwell**

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

7.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 38**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	987m SE	River	Irk (Wince to Irwell)	GB112069061131	Moderate	Good	Moderate	2016

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

7.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 38**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Northern Manchester Carboniferous Aquifers**	**GB41202G101800**	**Poor**	**Poor**	**Good**	**2015**

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

8 River and coastal flooding

8.1 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.

8.2 Historical Flood Events

Records within 250m	0

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

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

8.3 Flood Defences

Records within 250m	0

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

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

8.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

8.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

8.6 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.

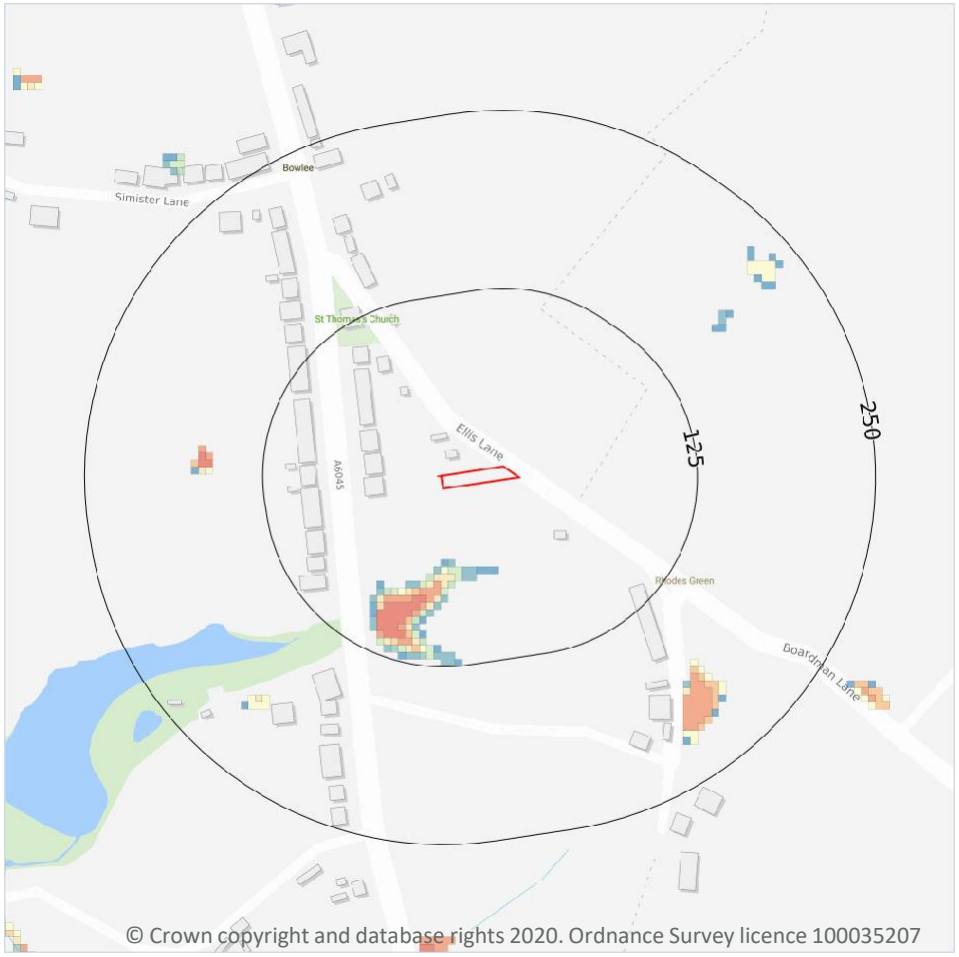
8.7 Flood Zone 3

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.

9 Surface water flooding



Site Outline
Search buffers in metres (m)

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

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

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

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

9.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**1 in 1000 year, 0.3m - 1.0m**

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

Features are displayed on the Surface water flooding map on **page 44**

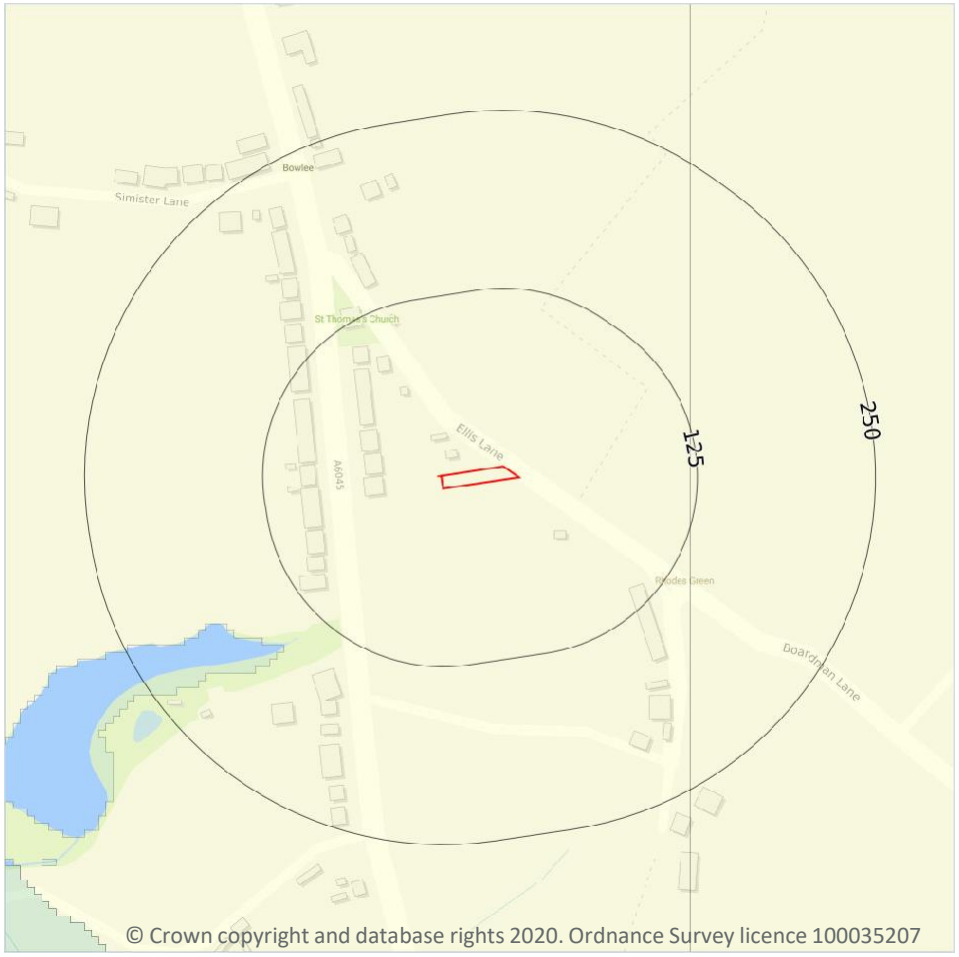
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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.

10 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

10.1 Groundwater flooding

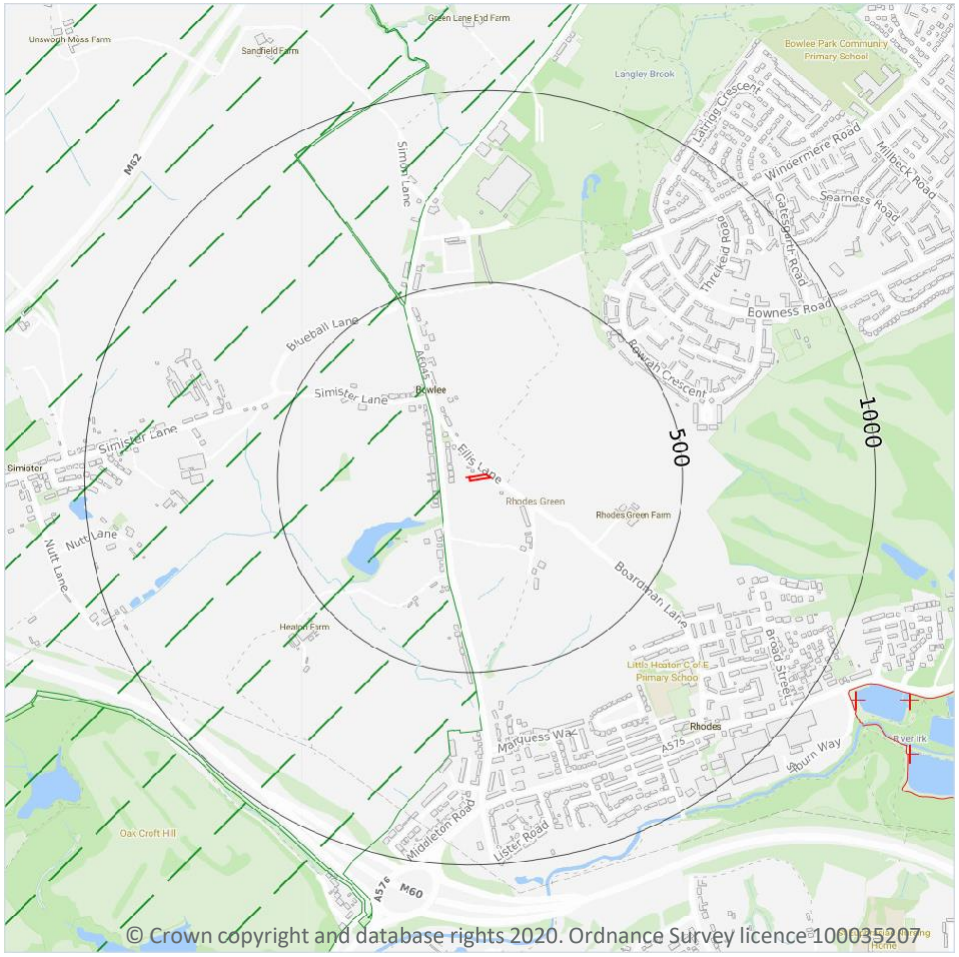
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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 46**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

11.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

11.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

11.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

11.6 Local Nature Reserves (LNR)

Records within 2000m	3

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.

Features are displayed on the Environmental designations map on **page 47**

ID	Location	Name	Data source
4	1085m SE	Alkrington Woods	Natural England
-	1493m S	Blackley Forest	Natural England
-	1831m S	Blackley Forest	Natural England

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

11.7 Designated Ancient Woodland

Records within 2000m	0

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.

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

11.8 Biosphere Reserves

Records within 2000m	0

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

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

11.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

11.10 Marine Conservation Zones

Records within 2000m	0

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

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

11.11 Green Belt

Records within 2000m	3

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

Features are displayed on the Environmental designations map on **page 47**

ID	Location	Name	Local Authority name
1	81m W	Liverpool and Manchester	Bury
2	481m N	Liverpool and Manchester	Rochdale
3	1014m SW	Liverpool and Manchester	Manchester

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

11.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

11.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

11.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

11.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

11.16 Nitrate Vulnerable Zones

Records within 2000m	4

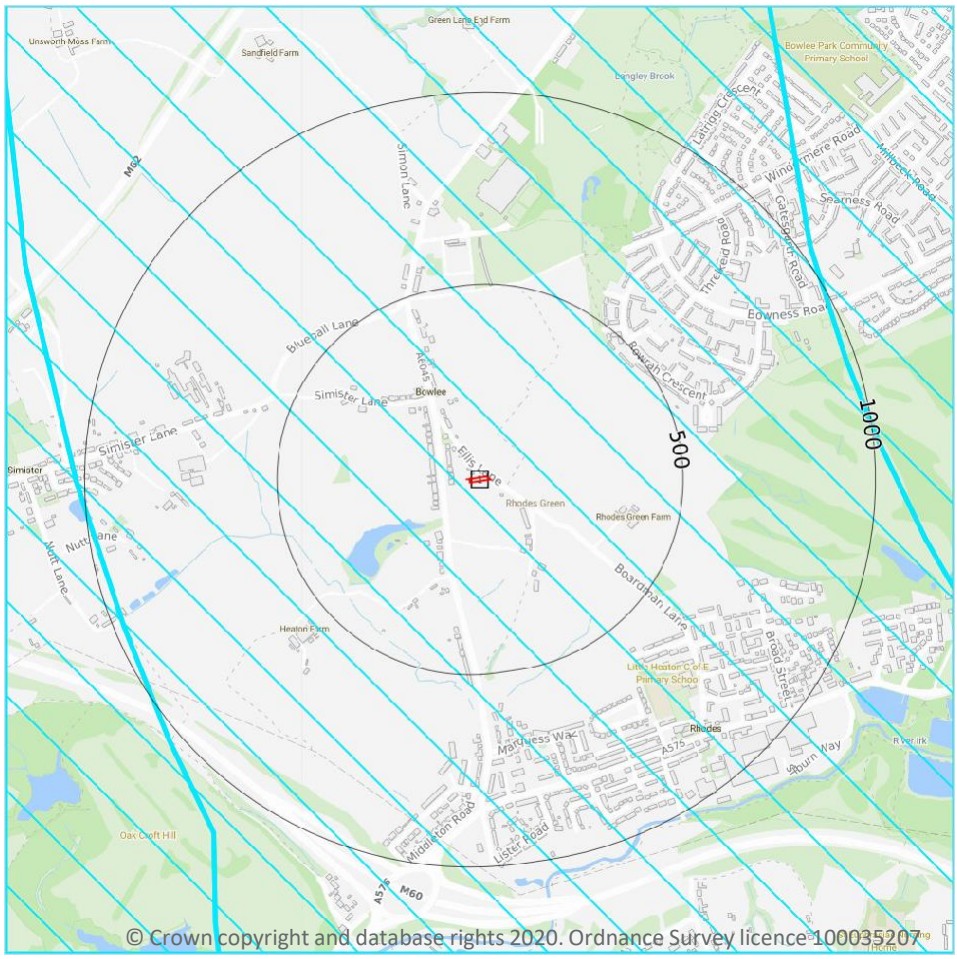
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**River Irk (Moston Brook to River Irwell) NVZ**	**Surface Water**	**S638**	**Existing**

Location	Name	Type	NVZ ID	Status
63m E	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
448m SW	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
453m W	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing

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

SSSI Impact Zones and Units



11.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 53**

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

This data is sourced from Natural England.

11.18 SSSI Units

Records within 2000m	0

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

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

12 Visual and cultural designations

12.1 World Heritage Sites

Records within 250m	0

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

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

12.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

12.3 National Parks

Records within 250m	0

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

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

12.4 Listed Buildings

Records within 250m	0

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

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

12.5 Conservation Areas

Records within 250m	0

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

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

12.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

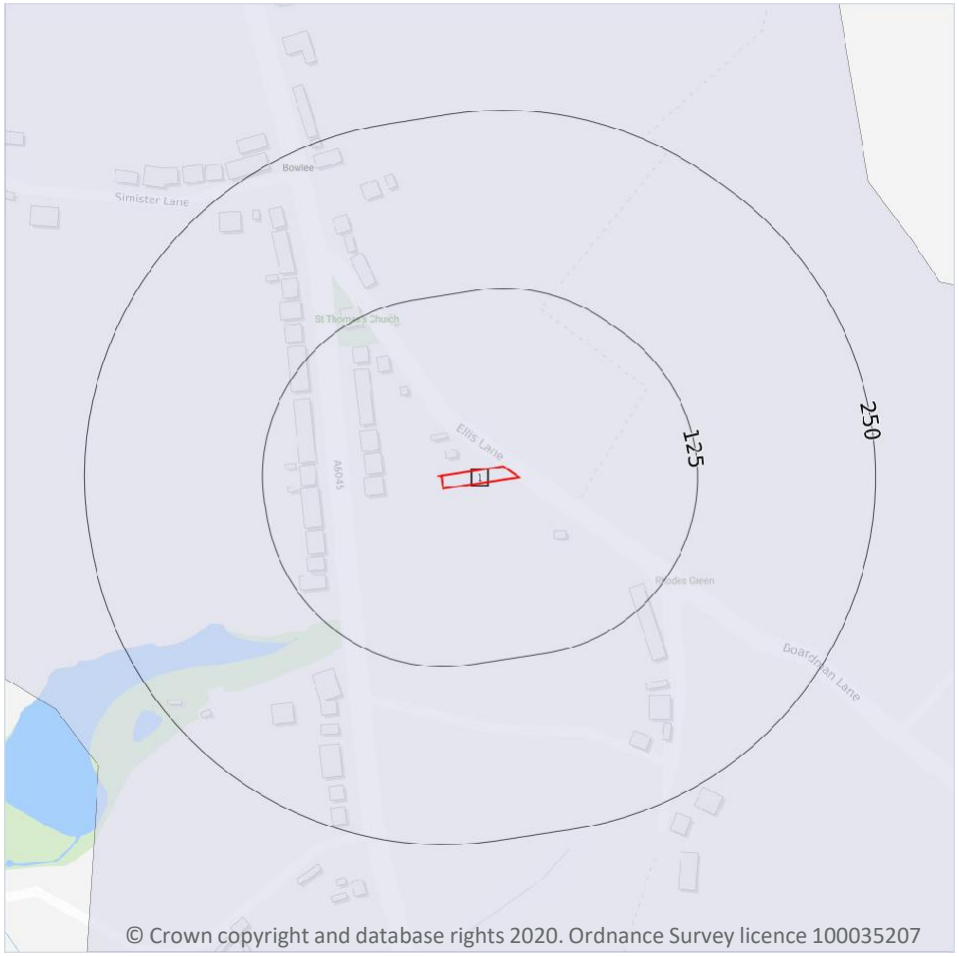
12.7 Registered Parks and Gardens

Records within 250m	0

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

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

13 Agricultural designations



Site Outline

Search buffers in metres (m)

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

13.1 Agricultural Land Classification

Records within 250m	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 57**

ID	Location	Classification	Description
1	On site	Grade 4	**Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.**

This data is sourced from Natural England.

13.2 Open Access Land

Records within 250m	0

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

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

13.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

13.4 Environmental Stewardship Schemes

Records within 250m	3

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

Location	Reference	Scheme	Start Date	End date
110m SW	AG00418610	Entry Level Stewardship	01/11/2013	31/10/2018
159m SE	AG00418610	Entry Level Stewardship	01/11/2013	31/10/2018
189m SW	AG00418610	Entry Level Stewardship	01/11/2013	31/10/2018

This data is sourced from Natural England.

13.5 Countryside Stewardship Schemes

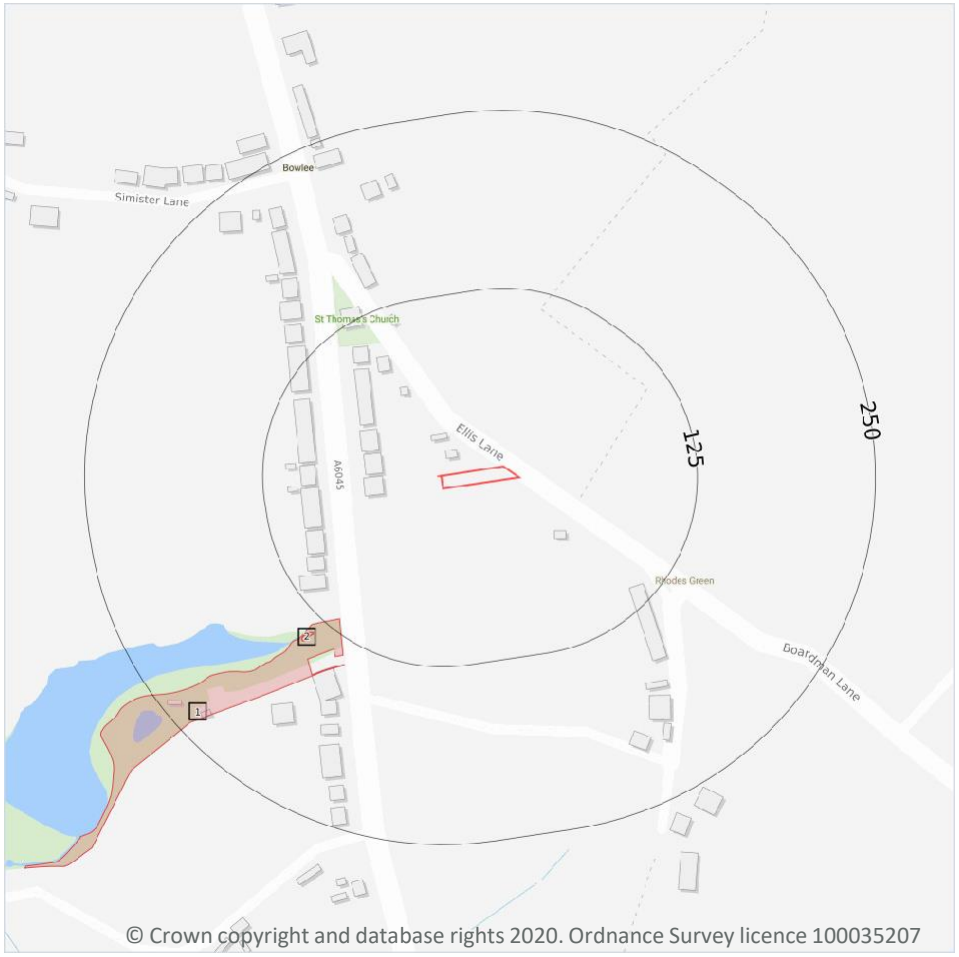
Records within 250m	2

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.

Location	Reference	Scheme	Start Date	End Date
108m SW	631434	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
189m SW	631434	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

This data is sourced from Natural England.

14 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

14.1 Priority Habitat Inventory

Records within 250m	2

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

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

ID	Location	Main Habitat	Other habitats
1	117m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	136m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

14.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

14.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

14.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

Data providers

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

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