



GeoEnginSeer Ltd
Geological Services
Gas Protection Verification
Site Supervision
Ground Gas Sampling

PHASE 1 DESK STUDY & GEO-ENVIRONMENTAL APPRAISAL

LAND AT EAVES LANE CHORLEY PR6 0TS

Document Status: FINAL
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For
BX3 Developments
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Job N° 2402 PR6 0TS

Date: February 2024

Executive Summary and Conceptual Site Model

Site Setting	Client	BX3 Develements
	Site	Land at Eaves Lane Chorley PR6 0TS
	Site Location	359202E 417892N
	Current Land Use & Development Proposal	The site was an irregular shaped parcel of land accessed from Eaves Lane in Chorley. It is understood that it is planned to redevelop the site to form a new residential development.
Conceptual Site Model Potential Pollutant Linkages	Site History	Historic map records indicate the site was undeveloped land until sometime prior to 1910 when a structure is marked in the north of the site. Lavatories are marked on the south of the site from sometime prior to 1959. An electrical sub-station wa denoted at the site from at least 1981 and this use has prevailed until the present day.
	Surrounding Area	The site was situated within a residential setting in Portsmouth.
	Geology	The British Geological Survey (BGS) 1:50,000 scale map solid & drift Digital Geological Map of Great Britain indicates the site is underlain by Superficial deposits of Hummocky (moundy) Glacial Deposits over faulted solid geology with undifferentiated rocks of the Rossendale Formation in the east and. undifferentiated rocks of the Pennine Lower Coal Measures Formation in the west. Both formations comprise an interbedded sequence of mudstones, siltstones and sandstones. .
	Hydrogeology	The aquifers within the bedrock deposits are designated as 'Secondary A'. These are described as permeable layers capable of supporting water supplies at a local rather than strategic scale, and a source of base flow to rivers.
	Possible pollutant linkages on undeveloped site determined from a desk study and site walkover	
	Preliminary Sources	Potential sources of contamination were identified at the site as the electrical sub-station and small buildings marked on historic map records.
	Preliminary Pathways	<ul style="list-style-type: none"> • Ingestion, inhalation or direct contact • Leaching through unsaturated zone • Direct contact with free phase or dissolved phase • Fugitive dust • Migration through Soils or groundwater to indoor air
	Potential Receptors	<ul style="list-style-type: none"> • Site Workers • End users of the site • Neighbours • Groundwater and possible abstractors or aquatic ecosystems • Building Products
	Summary Findings	<p>Contamination - With any site, the possibility of unidentified contamination being present cannot be entirely excluded. Several potentially significant potential sources of contamination were identified at the site. Based on the past history of the site the probability of contamination being present sufficient to affect the identified existing receptors is considered to be a moderate risk. The current uses of the site were considered to have been a low risk of causing pollution or transferring contaminants beyond the confines of the site. The future site usage as identified in the prepared development is likely to be a moderate risk. A limited investigation is recommended to confirm the absence of significant contaminant sources.</p> <p>Radon The site is within a Radon affected area, as less than 1% of properties are above the Action Level. No radon protective measures are necessary in the construction of new dwellings or extensions.</p>

This is only a summary. The full report should be considered in its entirety.

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1 Introduction

GeoEnginSeer Ltd has been commissioned to provide a phase 1 desk study for the development of 'Land at Eaves Lane Chorley PR6 0TS' (the site).

1.1 Scope and objective of the report

This report has been prepared in support of an planning application to develop the site with a new residential development.

This report has been developed in accordance with the Yorkshire & Lincolnshire Pollution Advisory Group (YALPAG) Technical Guidance for Developers Landowners & Consultants 2020 (Ref 12), CLR11 (Ref. 1), and other best practice guidance cited at the end of this report.

The Phase 1 Preliminary Risk Assessment comprised a desk-based review of current and historical information, environmental, geological and hydrological information, together with the findings of a site walkover.

The simple purpose of this report is to identify the following (Ref: 13):

- Identify whether contaminative uses are/have potentially been present on/nearby the site
- Identify potential receptors
- Identify potential pathways
- Identify whether there are possible significant pollutant linkages
- Collect information for the Conceptual Site Model (CSM)
- Set the objectives for any site investigation (or state why none is required)

1.2 Information Sources

This report has been prepared from published public record information and information provided by the client and other parties, including anecdotal information.

The available regulatory data includes information from the following organisations:

- Environment Agency
- British Geological Survey
- Ordnance Survey
- Coal Authority
- Health Protection Agency
- Natural England
- Department for Environment, Food and Rural Affairs (DEFRA)

The study has not included checks on services on or adjacent to the site, and no structural, ecological or asbestos surveys have been carried out.

1.3 Limitations

This report has been prepared for the sole use and reliance of the Client named above and cannot be relied upon by any other parties without the express written authorisation of GeoEnginSeer Ltd. Any unauthorised third party relies on this report at their own risk and the authors owe them no duty of care.

Draft versions of this report cannot be relied upon and GeoEnginSeer Ltd accept no liability for decisions made based upon any draft versions circulated as part of project development. Please refer to the FINAL report only for decision making purposes.

The findings and opinions conveyed in this report is based on information obtained from sources which GeoEnginSeer Ltd believe are reliable. All reasonable endeavours have been made to source the information from reputable organisations; however, GeoEnginSeer Ltd accepts no responsibility for inaccuracies in the data supplied or for opinions based on any such inaccurate data. No attempt has been made to independently verify any data collected by others or from other sources. The Report does not constitute any legal advice. As such, the advice of a Solicitor may also be required.

The public environmental records are based upon known, published information and may not comprise a complete record of all features of relevance. An explanation of the datasets used, their sources, assumed definitions and limitations is available on request.

GeoEnginSeer Ltd reserves the right to amend their conclusions and recommendations in the light of further information that may become available.

2 Site Location and Description

2.1 Site Location

The site is located on Eaves Lane in Chorley. The site is situated on a terraced street with a mixture of residential and commercial/retail properties as shown in figures 1 & 2 below.

Site details are summarised in Table 2.1 below:

Detail	Remarks
Location	Land at Eaves Lane Chorley PR6 OTS
NGR	359202E 417892N
Area	0.02ha
Potential services	Underground sewers, drainage, gas, electric, water cable/telecoms

Table 2.1 – Site Summary



Figure 1 – Indicative site location map

2.2 General Description of Site

A site visit was undertaken by Geoengineer on the 1st February 2024 to examine the current site condition. The immediate surroundings of the site were observed from public rights of way. No visual evidence of contamination was identified.

The site was occupied by the existing building in the south of the site with open space and hardstanding in the north. To the north and east of the site were residential properties with private undeveloped land to the south.

No evidence of Japanese Knotweed or other invasive species was identified during the site walkover, however, a detailed inspection of the fauna was not undertaken.



Figure 2 – Extract image of submitted Development Plan

2.3 Surrounding Area

The site was situated within a mixed residential and commercial setting in Chorley.

2.4 Site History

The historic development of the site and surrounding land has been reviewed with reference to available map records. Historically, maps were updated at regular intervals, providing a record of site uses and changes in use over time, however, they only provide a 'snapshot' of land use at the time of the survey and activities that may have taken place between surveys is not known and in some cases sensitive information (such as military sites) would not be recorded.

Date	Information Source	Land Use of Site	Land Use of Surroundings
1846-1849	County Series 1:10,560 scale	The site is undeveloped land.	A Workhouse is marked approximately 80m south of the site. Stump Mill (Cotton) is marked approximately 200m north of the site.
1892-1893	County Series 1:2,500 1:10,560 scale	No significant changes noted.	The Workhouse is now marked as a Hospital. A Pond is marked approximately 100m north west of the site. Residential land is marked to the west of the site fronting onto Eaves Lane.
1909-1910	County Series 1:2,500 1:10,560 scale	A structure is marked in the north of the site.	A building is marked immediately south of the site. Residential type development is marked to the north of the site. A reservoir was marked

Date	Information Source	Land Use of Site	Land Use of Surroundings
			approximately 120m south east of the site within the hospital building complex.
1927-1930	County Series 1:2,500 1:10,560 scale	No significant changes noted.	Further residential development noted to the north east of the site.
1938	County Series 1:2,500 1:10,560 scale	No significant changes noted.	No significant changes noted.
1955-1959	County Series 1:10,560 scale	Lavatories are marked on the south of the site.	No significant changes noted.
1964-1969	County Series 1:1,250 scale	A small building is marked in the south of the site.	A Depot is marked approximately 100m east of the site. A Depot is marked approximately 120m west of the site.
1973-1978	National Grid 1:10,000 scale	No significant changes noted.	Land immediately south is cleared of the building and landscaping is marked.
1981	National Grid 1:2,500 scale	Previous structure are no longer shown and an electrical sub-station is marked.	A Depot is marked approximately 120m north east of the site.
1984-1991	National Grid 1:1,250 1:2,500 scale 1:10,000 scale	No significant changes noted.	No significant changes noted.
1991-1994	National Grid 1:1,250 1:2,500 scale 1:10,000 scale	No significant changes noted.	No significant changes noted.
2001-2003	National Grid 1:10,000 Scale	No significant changes noted.	No significant changes noted.
2010	National Grid 1:10,000 Scale	No significant changes noted.	No significant changes noted.
2023	National Grid 1:10,000 Scale	No significant changes noted.	No significant changes noted.

3 Geo-environmental Setting

3.1 Geology

The British Geological Survey (BGS) 1:50,000 scale map solid & drift Digital Geological Map of Great Britain indicates the site is underlain by Superficial deposits of Hummocky (moundy) Glacial Deposits over faulted solid geology with undifferentiated rocks of the Rossendale Formation in the east and undifferentiated rocks of the Pennine Lower Coal Measures Formation in the west. Both formations comprise an interbedded sequence of mudstones, siltstones and sandstones. These strata will weather to both cohesive and granular strata depending on the site aspect and local conditions.

3.1.1 BGS Borehole Viewer

The BGS has made available borehole records taken from the National Geoscience Data Centre and may be used for commercial purposes providing their source is identified.

An inspection of the available borehole records did not identify logs within the vicinity of the site that add additional information.

3.2 Environmental Permits, Incidents & Registers

There were no historic IPC Authorisations within 500m of the study site.

There were no records of Part A(1) and IPPC Authorised Activities within 500m of the study site.

There were no Water Industry Referral (potentially harmful discharges to sewer) or Red List Discharge Consents record within 500m of the site.

There were no records of List 1 or List 2 Dangerous Substances Inventory Sites within 250m of the study site.

There were no Part A(2) and Part B Activities and Enforcements within 250m of the study site.

There were no records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site

There was only one Licensed Discharge Consents recorded within 250m of the site. The record was located 208m south east of the site for sewage discharges miscellaneous discharges - surface water.

There were no significant Environment Agency recorded pollution incidents within 250m of the site.

There were no records of any sites determined as contaminated land under section 78R of the Environmental Protection Act 1990.

Environment Agency and Local Authority Data did not identify any other significant authorisations or licenses relevant to the site or within 250m of the site.

3.2.1 Landfill and Other Waste Sites

There were no historic or recent landfills records within 250m of the site.

3.2.2 Current Land Uses

The electrical sub-station at the site is identified as an existing potentially contaminative industrial uses. There were no potentially contaminative industrial uses recorded within 50m of the site.

There nearest petrol or fuel sites was recorded more than 250m of the site.

3.2.3 Sensitive Land Use

No statutory protected ecological sites are identified within 250m of the site.

3.3 Radon

The site is within a Radon affected area, as less than 1% of properties are above the Action Level. No radon protective measures are necessary in the construction of new dwellings or extensions.

3.4 Hydrogeology

Within all aquifers, groundwater tends to flow from areas where groundwater is recharged and follows the topography from elevated escarpments to lower slopes. Variation in groundwater flow directions can occur where local groundwater recharge is impacted by spatial differences in precipitation & surface infiltration rates.

The complexity of the regional fault system of the Carboniferous deposits in the area leads to significant spatial variability in the regional groundwater flow pattern and groundwater contour levels. Faulting can isolate blocks of rock and create new connexions affecting hydraulic conductivity at a local scale. It can also be impacted by coal mining and associated dewatering activities. Due to the complex hydrogeology, the whole sequence is considered in general terms as an aquifer.

Since April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive.

The aquifers within the bedrock deposits are designated as 'Secondary A'. These are described as 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.

Details provided by the Environment Agency in the GroundSure EnviroInsight report, indicate there to be no licensed surface water or groundwater abstraction points within 500m of the site.

There are no source protection zones within 500m of the site.

There were no groundwater or surface water abstraction licenses within 500m of the site.

3.5 Hydrology

3.5.1 Surface Waters

The nearest surface water feature was more than 250m from the site.

4 Preliminary Conceptual Site Model

4.1 Introduction

A Conceptual Site Model (CSM) is intended to provide a testable representation of the environmental processes on a site and in its vicinity. Its purpose is to identify potential contaminants, pathways & receptors with a view to identifying (initially) potential and (eventually) significant pollutant linkages (Ref. 13 CLM: Ready Reference 2007).

4.1.1 Legislative Background

In terms of the planning system the legislative approach taken has been that land affected by contamination must be made suitable for use if and when it is redeveloped, and as a minimum it cannot be “contaminated land” in terms of the “Part 2A” contaminated land regime once it has been redeveloped.

The contaminated land regime consists of three main elements: the 1990 Act, the Statutory Guidance, and the Contaminated Land Regulations 2006. Annex 3 gives a brief description. The Statutory Guidance is intended to explain key parts of the 1990 Act, and to set legally binding rules on how they should be applied by the regulator. Its main purpose is to:

- explain how local authorities should decide whether land is “contaminated land”
- explain how local authorities should go about implementing the regime
- explain how the regulator (i.e. the local authority or the Environment Agency in the case of “special sites”) should ensure that remediation requirements are “reasonable”
- elaborate on specific aspects of the liability arrangements where more than one party is liable.

For planning purposes, the assessment of risks arising from contamination and remediation requirements should be considered on the basis of the current environmental setting, the current land use, and the circumstances of its proposed new use. The approach taken follows the risk-based tiered framework published by Defra and the Environment Agency in their guidance document “CLR 11 Model Procedures for the Management of Land Contamination” (Ref. 1).

The basis of CLR11 is the development of the conceptual site model and a CLEA (Contaminated Land Exposure Assessment) standard land use scenario (Ref.11) is usually applied to aid with the development of the linkages.

Fauna have not been considered as part of this assessment.

4.2 Preliminary Conceptual Site Model

Following the principles of CLR11 this assessment has been developed using desk study and site walkover information summarised in the preceding sections. The report therefore constitutes a Tier 1 risk assessment.

Based upon the available desk study and site walkover information and with reference to Environment Agency R&D Publication 66 (Ref. 2) a simplified preliminary conceptual site

model has been developed. The aim is to identify potential sources of contamination, pathways and receptors that may exist and present a significant level of risk.

The scheme has been developed as residential use. For the purposes of compiling the preliminary CSM the potential exposure pathways for human health have therefore been assumed to match the 'residential' Conceptual Exposure Model (CEM) as described in R&D Publication 66 (Ref.2).

4.3 Sources

Potential sources of contamination were identified at the site as the electrical sub-station and small buildings marked on historic map records.

4.4 Pathways

The following potential exposure pathways have been identified for human health receptors:

- Ingestion of soil and soil derived dust
- Ingestion of household dust
- Consumption of home-grown vegetables
- Ingestion of soil attached to vegetables
- Dermal contact with soil
- Dermal contact with household dust
- Inhalation of vapours indoors
- Inhalation of vapours outdoors

The following potential pathways have been identified for controlled waters:

- Leaching/migration of contaminants through soil
- Migration of impacted perched water or groundwater or surface water runoff.

The following pathways have been identified for buildings:

- Migration of ground-borne gases through permeable ground
- Direct contact of buildings with contaminated soil or impacted groundwater
- Migration of ground-borne gases and groundwater along preferential pathways e.g. Service trenches and entries to new structures and services.

4.5 Receptors

The following receptors have been identified:

- Site end users – future residents and visitors (public open space and private gardens)
- Construction / site investigation workers
- Adjacent residents
- Maintenance workers
- Controlled waters (groundwater)

- Buildings on site, both existing and planned and new services.

Potential off-site receptors include:

- Controlled waters (surface water and groundwater)
- Construction workers and regular workers on adjacent sites
- Occupiers, visitors and users of adjacent sites

Table 4.5 on the following pages comprises the preliminary CSM and summarises the potential pollutant linkages based on information collated and interpreted in this Phase 1 assessment.

Source	Exposure Pathway	Receptor(s)	Probability	Consequence	Risk Level	Comments
Inorganic substances within Made Ground on site	Ingestion, inhalation or direct contact	Site Workers	Low likelihood	Medium	Low	Limited made ground potential at the site. Site workers likely to be wearing appropriate PPE
	Ingestion, inhalation or direct contact	End users of the site	Low likelihood	High	Moderate	Made ground potential at the site.
	Inhalation of fugitive dust	Neighbours	Low likelihood	Medium	Low	Significant volumes of dust considered unlikely but demolition works should be conducted in a way that reduces dust production.
	Leaching through unsaturated zone	Groundwater and possible abstractors or aquatic ecosystems	Low likelihood	Medium	Low	Considered unlikely. Limited made ground potential at the site. Identified significant sources should be removed or remediated.
Organic substances in Made Ground on site associated including: Petroleum Hydrocarbons, Polynuclear Aromatic Hydrocarbons (PAH) VOC's &SVOC's	Ingestion, inhalation or direct contact	Site Workers	Low likelihood	Medium	Low	Made ground potential at the site. Site workers likely to be wearing appropriate PPE
	Ingestion, inhalation or direct contact	End users of the site	Low likelihood	High	Moderate	Made ground potential at the site. Fuel storage noted on adjacent land.
	Inhalation of fugitive dust.	Neighbours	Low likelihood	Medium	Low	Significant volumes of dust considered unlikely but demolition works should be conducted in a way that reduces dust production.
	Leaching through unsaturated zone	Groundwater and possible abstractors or aquatic ecosystems	Likely	Medium	Moderate	Considered unlikely. Limited made ground potential at the site. Identified significant sources should be removed or remediated.
Asbestos fibres from asbestos	Fugitive dust	Site Workers	Likely	Medium	Moderate	Potential for made ground potential at the site.
		End users of the site	Low likelihood	High	Moderate	

Source	Exposure Pathway	Receptor(s)	Probability	Consequence	Risk Level	Comments
containing materials within Made Ground		Neighbours	Low likelihood	Medium	Low	
Ground Gas (methane & carbon Dioxide) from Made Ground/ organic sources	Migration through Soils or groundwater to indoor air	End users of new buildings (asphyxiation or explosion)	Low likelihood	High	Moderate	Major fault zone over coal bearing strata. Ground gas monitoring recommended.
		Users of off-site properties (asphyxiation or explosion)	Low likelihood	High	Moderate	
		New buildings (damage by explosion)	Low likelihood	High	Moderate	
		Neighbouring properties (damage by explosion)	Low likelihood	High	Moderate	

4.6 Qualitative Risk Assessment

The assessment of risk is defined in the Environment Agency & NHBC joint guidance publication R&D66 (Ref.2) as being a consideration of both:

- The likelihood of an event (probability) [taking account of both the presence of the hazard and receptor and the integrity of the pathway]; and
- The severity of the potential consequence [taking account of both the potential severity of the hazard and the sensitivity of the receptor].

4.6.1 Preliminary Assessment

With any site, the possibility of unidentified contamination being present cannot be entirely excluded. No significant potential sources of contamination were identified in the vicinity of the site. A small structure was marked at the site prior to the existing dwelling, however, this is considered unlikely to impact the development. Sources on adjoining sites are considered unlikely to have significantly impacted the site.

Ground contamination remains a material planning consideration. Local planning authorities must take account of such issues in determining applications for planning permission. In addition, building work is regulated under the Building Regulations 1991. Schedule 1 (Ref. 8) requires 'precautions shall be taken to avoid danger to health and safety caused by substances found on, or in the ground covered by the building'.

Based on the existing and past history of the site the probability of contamination being present sufficient to affect the identified existing receptors is considered to be a moderate risk. The current uses of the site were considered to have been a low risk of causing pollution or transferring contaminants beyond the confines of the site.

The future site usage as identified in the prepared development is likely to be a moderate risk. A limited investigation is recommended to confirm the absence of significant contaminant sources.

5 References

1. Department of the Environment, Transport and the Regions and Environment Agency, Model Procedures for the Management of Land Contamination. Contaminated Land Report 11.
2. EA and NHBC 2000. Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66.
3. Department of the Environment, Transport and the Regions, Environment Agency and Institute of Environmental Health. Guidelines for Environmental Risk Assessment and Management. HMSO July 2000.
4. Construction Industry Research and Information Association (CIRIA). Contaminated Land Risk Assessment. A Guide to Good Practice. CIRIA C552 2001.
5. DoE, 1995 Industry Profiles.
6. EA, 2003b Consultation on Agency Policy: Building Development on or within 250m of a landfill site.
7. OPDM Planning Policy Statement 23: Planning and Pollution Control. Annex 2 Development on Land Affected by Contamination.
8. Approved Document C – Site Preparation and Resistance to Contaminants and Moisture (Relating to Building Regulations 2000 (SI 2000/2531)).
9. BSI, 2011 Investigation of Potentially Contaminated Sites, Code of Practice, BS: 10175.
10. EA, 2001 Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination.
11. Environment Agency 2009: Updated technical background to the CLEA model Science report SC050021/SR3, Bristol, Environment Agency
12. Yorkshire & Lincolnshire Pollution Advisory Group. Development on Land Affected by Contamination - Technical Guidance for Developers Landowners & Consultants - Version 11.2 – June 2020.
13. LQM 2007 Contaminated Land Management: Ready Reference 2007
14. A geological background for planning and development in the City of Bradford Metropolitan District. Vol. 1: A guide to the use of earth science information in planning and development. Technical Report WA/96/1 British Geological Survey.

APPENDIX A
SITE LOCATION PLANS



EXTRACT OF LOCATION PLAN
[Not to scale]

↑
NORTH

APPENDIX B
ENVIRONMENTAL DATA

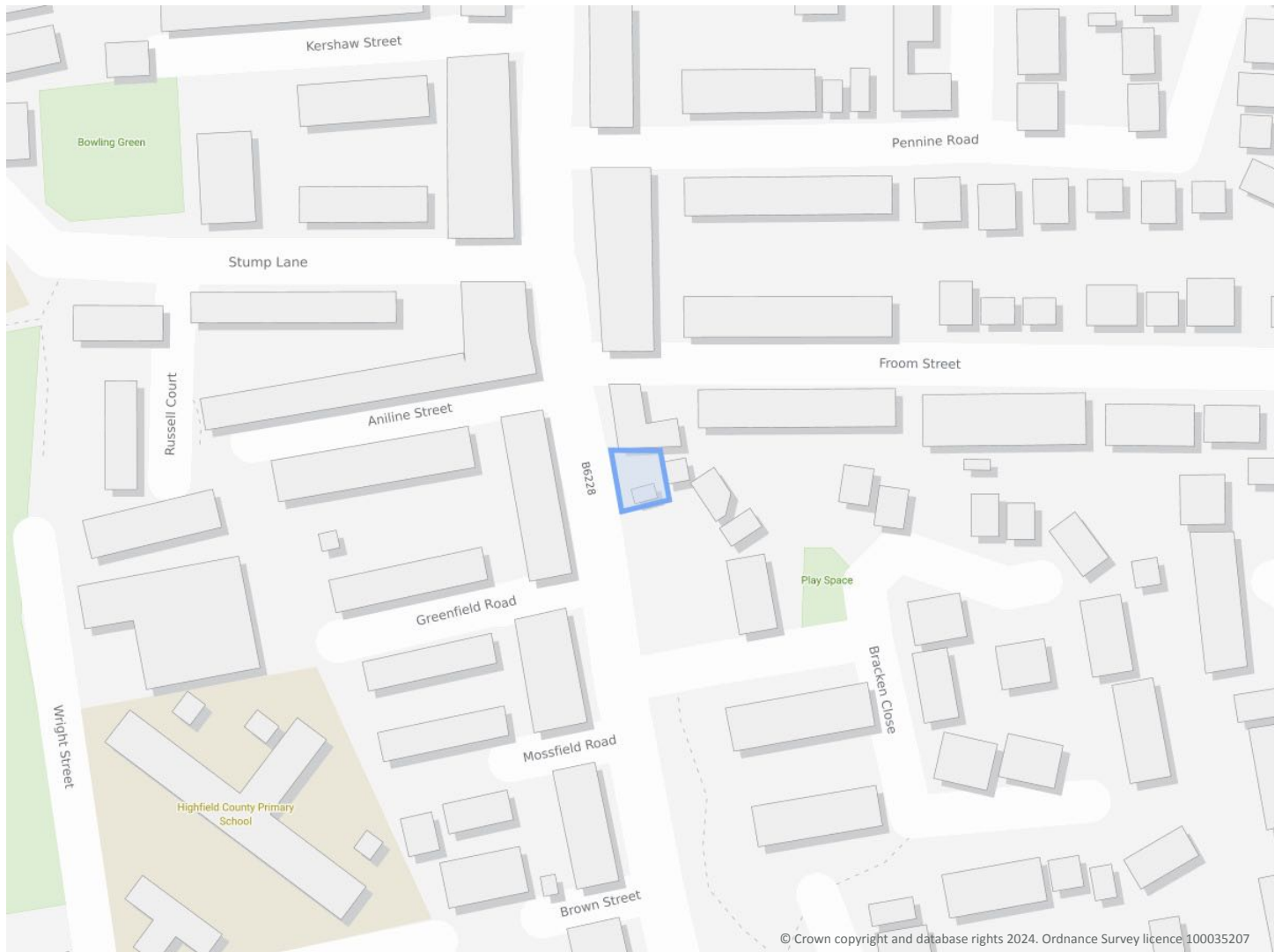
LAND AT EAVES LANE CHORLEY, PR6 0TS

Order Details

Date: 05/02/2024
Your ref: 2402_PR6_OTS
Our Ref: GS-CRG-GDC-TY1-BL1

Site Details

Location: 359202 417892
Area: 0.02 ha
Authority: [Chorley Council](#) ↗



[Summary of findings](#)

[p. 2 > Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.13 > \[groundsure.com/insightuserguide\]\(https://groundsure.com/insightuserguide\) ↗](#)

Contact us with any questions at:

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	2	2	15	69	-
18 >	1.2 >	Historical tanks >	0	1	4	13	-
19 >	1.3 >	Historical energy features >	1	0	0	20	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	0	4	8	-
21	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
22 >	2.1 >	Historical industrial land uses >	3	4	20	102	-
27 >	2.2 >	Historical tanks >	0	1	14	28	-
29 >	2.3 >	Historical energy features >	4	0	0	61	-
32	2.4	Historical petrol stations	0	0	0	0	-
32 >	2.5 >	Historical garages >	0	0	5	23	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
34	3.1	Active or recent landfill	0	0	0	0	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
35	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
35 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
35	3.5	Historical waste sites	0	0	0	0	-
36	3.6	Licensed waste sites	0	0	0	0	-
36 >	3.7 >	Waste exemptions >	0	0	0	1	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
37 >	4.1 >	Recent industrial land uses >	1	0	4	-	-
38	4.2	Current or recent petrol stations	0	0	0	0	-
38	4.3	Electricity cables	0	0	0	0	-
38	4.4	Gas pipelines	0	0	0	0	-
38	4.5	Sites determined as Contaminated Land	0	0	0	0	-



39	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
39	4.7	Regulated explosive sites	0	0	0	0	-
39	4.8	Hazardous substance storage/usage	0	0	0	0	-
39	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
39	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
40 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	0	1	-
40	4.12	Radioactive Substance Authorisations	0	0	0	0	-
40 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	1	1	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
41	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
41	4.17	List 2 Dangerous Substances	0	0	0	0	-
41 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	1	7	-
42	4.19	Pollution inventory substances	0	0	0	0	-
43	4.20	Pollution inventory waste transfers	0	0	0	0	-
43	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
44 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
46 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
47 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	5.5	Groundwater vulnerability- local information	None (within 0m)				
49 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	4
50 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	3	21
57 >	5.8 >	<u>Potable abstractions ></u>	0	0	0	0	3
57	5.9	Source Protection Zones	0	0	0	0	-
58	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
59	6.1	Water Network (OS MasterMap)	0	0	0	-	-



59	6.2	Surface water features	0	0	0	-	-
60 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
60 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
61 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
62	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
62	7.2	Historical Flood Events	0	0	0	-	-
62	7.3	Flood Defences	0	0	0	-	-
63	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
63	7.5	Flood Storage Areas	0	0	0	-	-
64	7.6	Flood Zone 2	None (within 50m)				
64	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
65	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
66 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
67	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
68	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
68	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
68	10.4	Special Protection Areas (SPA)	0	0	0	0	0
68	10.5	National Nature Reserves (NNR)	0	0	0	0	0
69	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
69 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	9
69	10.8	Biosphere Reserves	0	0	0	0	0
70	10.9	Forest Parks	0	0	0	0	0
70	10.10	Marine Conservation Zones	0	0	0	0	0
70 >	10.11 >	Green Belt >	0	0	0	0	1
70	10.12	Proposed Ramsar sites	0	0	0	0	0



71	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
71	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
71	10.15	Nitrate Sensitive Areas	0	0	0	0	0
71	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
72 >	10.17 >	<u>SSSI Impact Risk Zones ></u>	1	-	-	-	-
73	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
74	11.1	World Heritage Sites	0	0	0	-	-
74	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
74	11.3	National Parks	0	0	0	-	-
74	11.4	Listed Buildings	0	0	0	-	-
75	11.5	Conservation Areas	0	0	0	-	-
75	11.6	Scheduled Ancient Monuments	0	0	0	-	-
75	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<u>Agricultural designations ></u>	On site	0-50m	50-250m	250-500m	500-2000m
76 >	12.1 >	<u>Agricultural Land Classification ></u>	Urban (within 250m)				
77	12.2	Open Access Land	0	0	0	-	-
77	12.3	Tree Felling Licences	0	0	0	-	-
77	12.4	Environmental Stewardship Schemes	0	0	0	-	-
77	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
78	13.1	Priority Habitat Inventory	0	0	0	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78	13.3	Open Mosaic Habitat	0	0	0	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<u>Geology 1:10,000 scale ></u>	On site	0-50m	50-250m	250-500m	500-2000m
79 >	14.1 >	<u>10k Availability ></u>	Identified (within 500m)				
80 >	14.2 >	<u>Artificial and made ground (10k) ></u>	0	0	5	12	-
82 >	14.3 >	<u>Superficial geology (10k) ></u>	1	0	1	2	-



83	14.4	Landslip (10k)	0	0	0	0	-
84 >	14.5 >	Bedrock geology (10k) >	2	0	6	6	-
85 >	14.6 >	Bedrock faults and other linear features (10k) >	1	0	3	2	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
87 >	15.1 >	50k Availability >	Identified (within 500m)				
88	15.2	Artificial and made ground (50k)	0	0	0	0	-
88	15.3	Artificial ground permeability (50k)	0	0	-	-	-
89 >	15.4 >	Superficial geology (50k) >	1	0	1	2	-
90 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
90	15.6	Landslip (50k)	0	0	0	0	-
90	15.7	Landslip permeability (50k)	None (within 50m)				
91 >	15.8 >	Bedrock geology (50k) >	2	0	6	6	-
92 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	3	2	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
94	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
95 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
96 >	17.2 >	Running sands >	Very low (within 50m)				
97 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
98 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
99 >	17.5 >	Landslides >	Very low (within 50m)				
100 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
102	18.1	BritPits	0	0	0	0	-
103 >	18.2 >	Surface ground workings >	0	0	9	-	-
103	18.3	Underground workings	0	0	0	0	0
103	18.4	Underground mining extents	0	0	0	0	-
104 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-



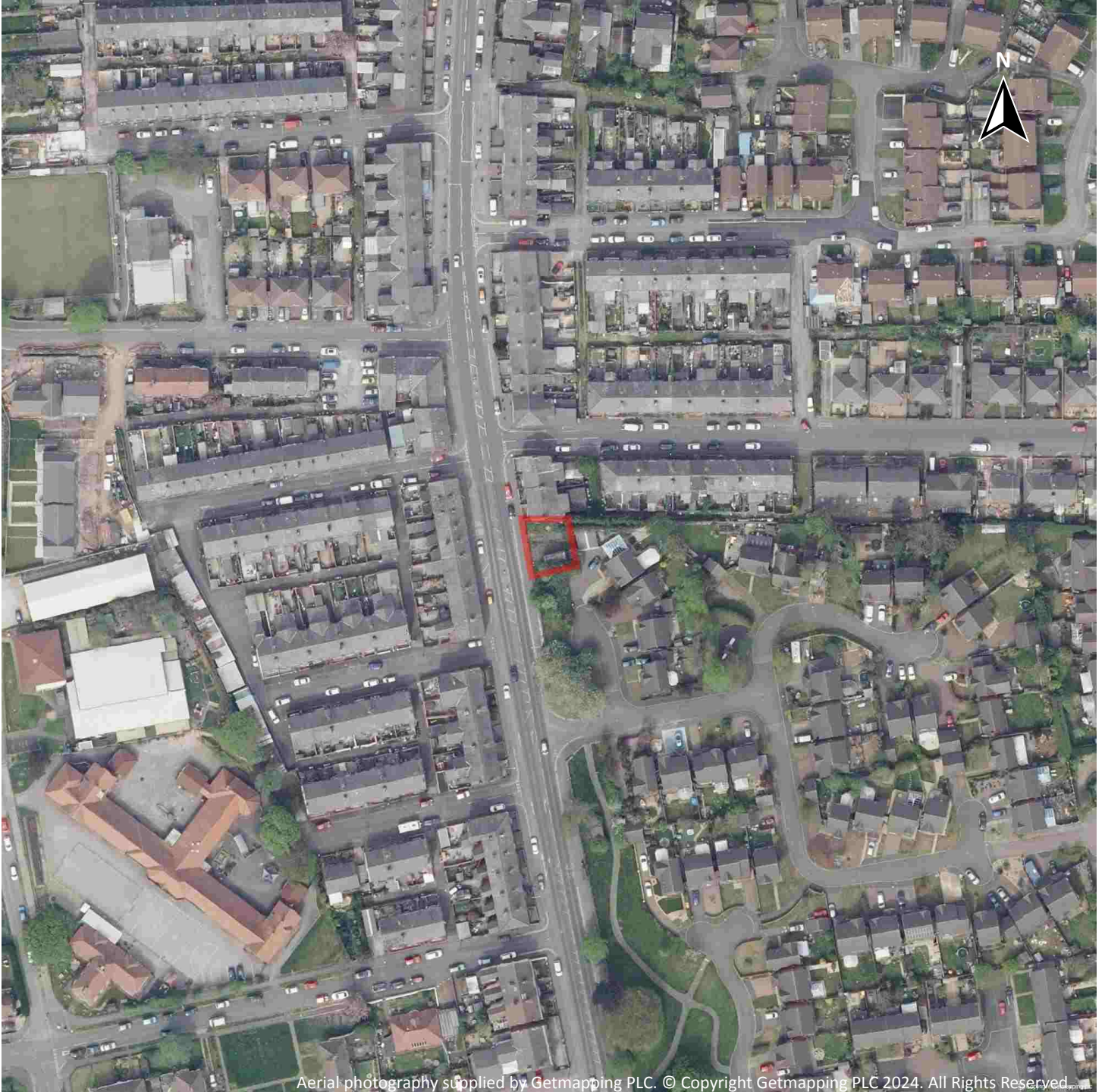
104 >	18.6 >	Non-coal mining >	0	1	0	0	1
105 >	18.7 >	JPB mining areas >	Identified (within 0m)				
105	18.8	The Coal Authority non-coal mining	0	0	0	0	-
105	18.9	Researched mining	0	0	0	0	-
106	18.10	Mining record office plans	0	0	0	0	-
106	18.11	BGS mine plans	0	0	0	0	-
106 >	18.12 >	Coal mining >	Identified (within 0m)				
106	18.13	Brine areas	None (within 0m)				
107	18.14	Gypsum areas	None (within 0m)				
107	18.15	Tin mining	None (within 0m)				
107	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
108	19.1	Natural cavities	0	0	0	0	-
108	19.2	Mining cavities	0	0	0	0	0
108	19.3	Reported recent incidents	0	0	0	0	-
108	19.4	Historical incidents	0	0	0	0	-
109	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
110 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
112 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
112	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
112	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
113	22.1	Underground railways (London)	0	0	0	-	-
113	22.2	Underground railways (Non-London)	0	0	0	-	-
113	22.3	Railway tunnels	0	0	0	-	-
113	22.4	Historical railway and tunnel features	0	0	0	-	-
113	22.5	Royal Mail tunnels	0	0	0	-	-



114	22.6	Historical railways	0	0	0	-	-
114	22.7	Railways	0	0	0	-	-
114	22.8	Crossrail 1	0	0	0	0	-
114	22.9	Crossrail 2	0	0	0	0	-
114	22.10	HS2	0	0	0	0	-



Recent aerial photograph

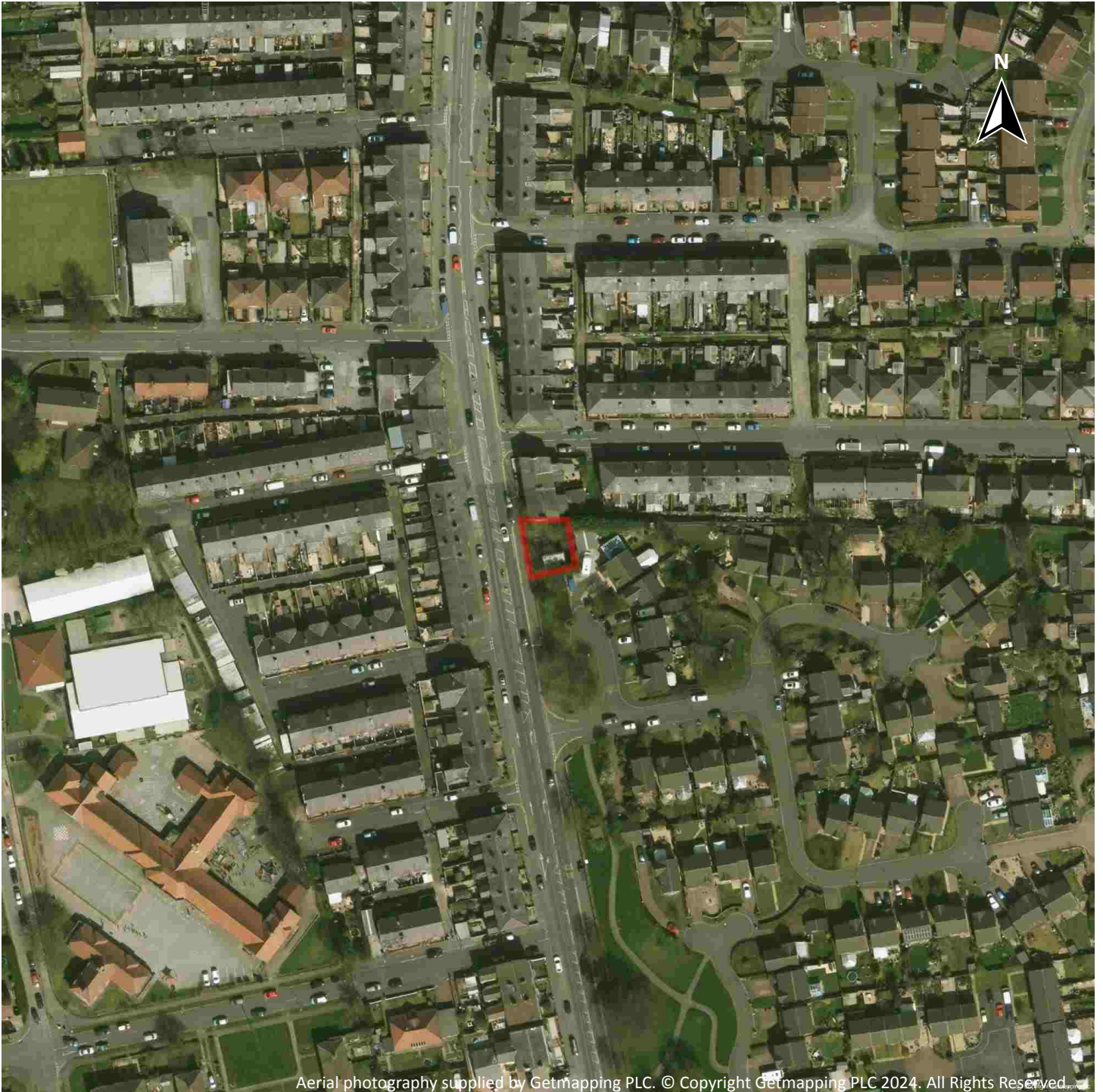


Capture Date: 23/05/2019

Site Area: 0.02ha



Recent site history - 2015 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 21/04/2015

Site Area: 0.02ha



Recent site history - 2001 aerial photograph



Capture Date: 07/05/2001

Site Area: 0.02ha



Recent site history - 2000 aerial photograph



Capture Date: 08/05/2000

Site Area: 0.02ha



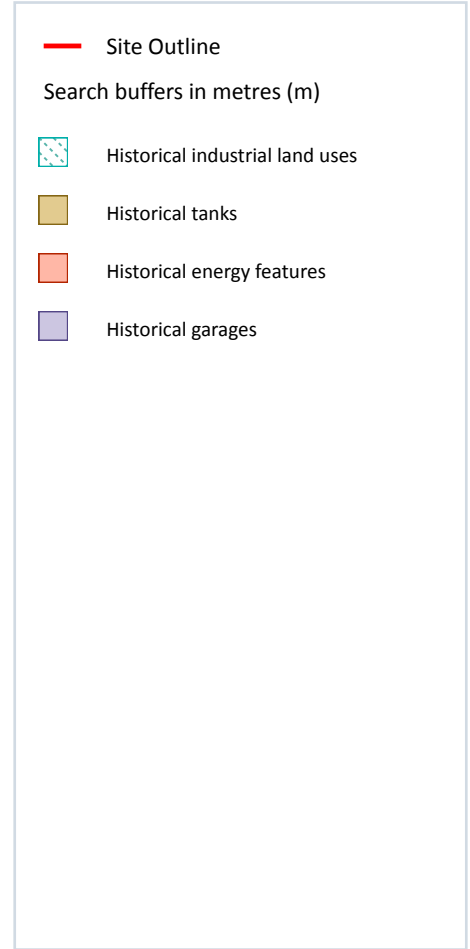
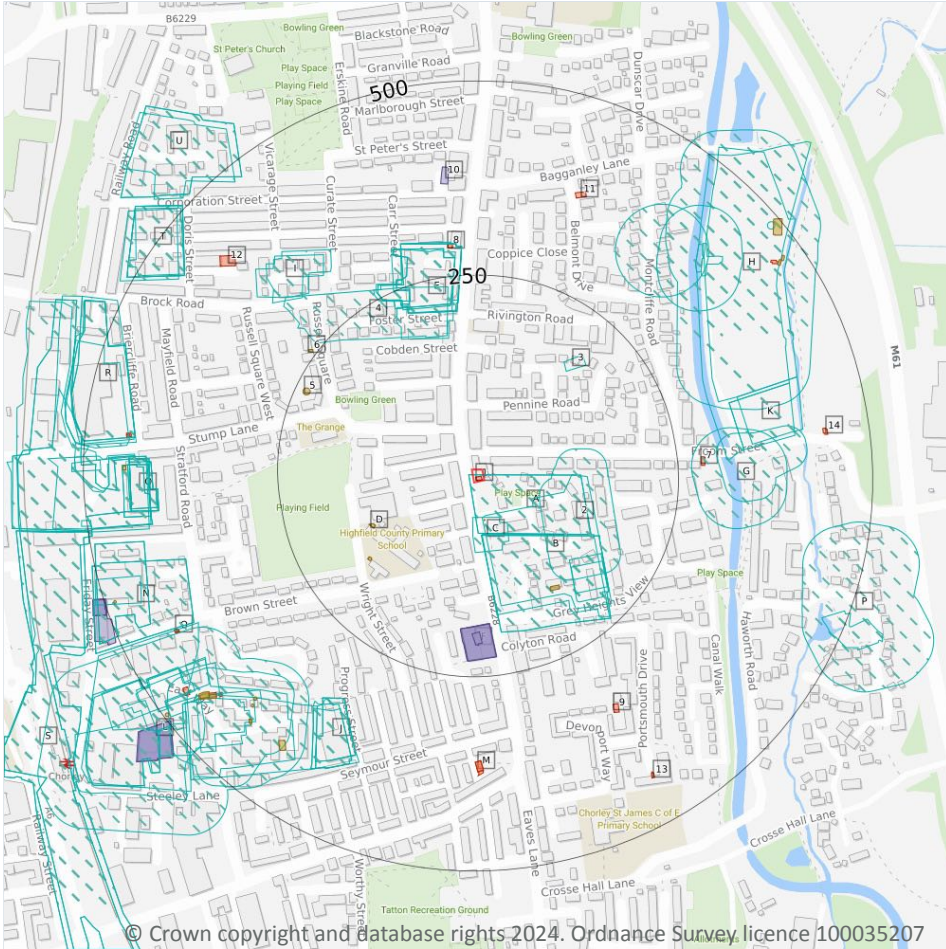
OS MasterMap site plan



Site Area: 0.02ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m **88**

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
A	On site	Hospital	1938	744126



ID	Location	Land use	Dates present	Group ID
A	On site	Hospital	1909 - 1927	750477
B	45m S	Hospital	1974 - 1992	786815
C	45m S	Workhouse	1846	641713
B	68m S	Hospital	1938	775063
B	69m S	Hospital	1927	730333
B	69m S	Unspecified Workhouse	1893 - 1909	758530
2	73m E	Hospital	1955 - 1968	763762
B	150m SE	Hospital	1955	714573
B	158m SE	Hospital	1893	729080
3	166m NE	Unspecified Depot	1974 - 1984	771851
E	172m N	Unspecified Mill	1893	719694
4	175m N	Cotton Mill	1846	644127
E	205m N	Unspecified Commercial/Industrial	1992	729238
E	205m N	Unspecified Mill	1984	746435
E	206m N	Unspecified Works	1968 - 1974	697611
E	213m N	Unspecified Commercial/Industrial	1909	745848
E	215m N	Unspecified Mill	1938 - 1955	724397
E	215m N	Unspecified Mill	1927	775054
G	267m E	Unspecified Wharf	1927 - 1938	714103
H	279m NE	Unspecified Mills	1927 - 1938	698082
G	301m E	Unspecified Wharf	1955	701930
H	303m E	Unspecified Mills	1909	763933
H	305m NE	Unspecified Wharf	1955	755825
I	309m NW	Unspecified Mill	1955	741563
I	311m NW	Unspecified Mill	1927 - 1938	781297
H	316m E	Unspecified Mills	1955 - 1992	777357
J	324m SW	Unspecified Mill	1955	699924
J	324m SW	Unspecified Commercial/Industrial	1968 - 1974	783010



ID	Location	Land use	Dates present	Group ID
H	325m NE	Unspecified Wharf	1927 - 1938	730105
J	329m SW	Unspecified Mill	1893	768012
K	329m E	Sewage Works	1909 - 1938	774542
L	334m SW	Unspecified Mill	1938	760392
J	335m SW	Unspecified Mill	1927 - 1938	781309
J	338m SW	Unspecified Commercial/Industrial	1909	695421
K	341m E	Sewage Works	1955	706124
L	350m SW	Unspecified Mill	1955 - 1968	707387
L	352m SW	Unspecified Mills	1893	737903
L	363m SW	Unspecified Factory	1984 - 1992	776677
H	375m NE	Unspecified Wharf	1909	697605
H	377m NE	Railway Sidings	1909	641391
L	384m SW	Unspecified Factory	1974	729177
N	384m W	Unspecified Commercial/Industrial	1909	719708
N	384m W	Weaving Shed	1927	735540
L	398m SW	Unspecified Commercial/Industrial	1955	642911
O	405m W	Unspecified Commercial/Industrial	1974	776555
O	405m W	Goods Shed	1955	781451
O	405m W	Unspecified Depot	1968	787364
L	406m SW	Unspecified Mills	1909 - 1927	770993
O	407m W	Unspecified Commercial/Industrial	1992	723078
O	407m W	Unspecified Depot	1984	725169
L	409m SW	Unspecified Mill	1909 - 1927	770047
L	413m SW	Unspecified Mills	1974	743079
O	415m W	Railway Sidings	1938	725521
O	415m W	Railway Sidings	1909 - 1927	781359
O	416m W	Goods Shed	1927 - 1938	770947
O	416m W	Goods Shed	1893	773976



ID	Location	Land use	Dates present	Group ID
O	417m W	Unspecified Works	1909	678437
O	418m W	Railway Sidings	1893	741045
O	419m W	Railway Building	1893	669276
P	423m E	Unspecified Mill	1893	656869
N	431m W	Unspecified Works	1968	678432
N	431m W	Unspecified Commercial/Industrial	1974	728947
R	433m W	Unspecified Mill	1955	787113
R	435m W	Unspecified Factories	1984 - 1992	713620
R	435m W	Unspecified Works	1968	746750
R	435m W	Unspecified Commercial/Industrial	1974	759347
S	440m W	Railway Sidings	1968	753568
S	440m W	Railway Sidings	1955	787406
R	442m W	Unspecified Mill	1927 - 1938	738444
L	445m SW	Unspecified Works	1968	678431
N	446m W	Weaving Shed	1893	746771
T	446m NW	Unspecified Commercial/Industrial	1968	642907
T	446m NW	Unspecified Mill	1992	697644
T	446m NW	Unspecified Mill	1955	752963
L	447m SW	Foundry	1846	657559
T	447m NW	Unspecified Mill	1974 - 1984	715772
T	450m NW	Unspecified Mill	1909 - 1938	756487
P	469m E	Unspecified Works	1846	678430
O	477m W	Railway Buildings	1893	681496
U	479m NW	Unspecified Commercial/Industrial	1992	642908
U	479m NW	Unspecified Mill	1955 - 1984	700903
U	479m NW	Unspecified Mill	1927 - 1938	723099
H	482m NE	Chimney	1968 - 1992	759017
O	495m W	Railway Building	1927 - 1938	739480



ID	Location	Land use	Dates present	Group ID
V	500m W	Railway Sidings	1909	713759
V	500m W	Railway Sidings	1927	762515
L	500m SW	Unspecified Mill	1968	752405

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	18
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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
C	49m S	Unspecified Tank	1893	79399
D	139m SW	Unspecified Tank	1973 - 1998	98097
B	162m SE	Unspecified Tank	1989 - 1994	96775
D	164m SW	Unspecified Tank	1973 - 1998	88674
5	231m NW	Unspecified Tank	1910 - 1928	103414
6	254m NW	Unspecified Tank	1910 - 1928	98748
L	394m SW	Unspecified Tank	1959	79383
L	402m SW	Unspecified Tank	1892	79384
L	412m SW	Tanks	1989 - 1993	92106
L	418m SW	Unspecified Tank	1969 - 1989	90110
L	429m SW	Tanks	1993	97663
L	435m SW	Tanks	1989 - 1991	98030
O	445m W	Unspecified Tank	1989 - 1996	96015
H	463m NE	Tanks	1910	86293
H	470m NE	Tanks	1959	86294



ID	Location	Land use	Dates present	Group ID
H	481m NE	Unspecified Tank	1969 - 1978	97423
N	485m W	Unspecified Tank	1959	104135
L	493m SW	Unspecified Tank	1959	89943

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	21
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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
1	On site	Electricity Substation	1973 - 1994	57497
7	280m E	Electricity Substation	1989 - 1998	48403
8	286m N	Electricity Substation	1969 - 1994	48629
9	333m SE	Electricity Substation	1973 - 1998	56925
M	358m S	Electricity Substation	1981	51897
M	358m S	Electricity Substation	1973 - 1998	50689
11	370m N	Electricity Substation	1973 - 1994	57356
M	370m S	Electricity Substation	1989	49136
12	402m NW	Electricity Substation	1975 - 1994	56894
L	423m SW	Electricity Substation	1991 - 1993	57310
Q	425m SW	Electricity Substation	1991	57912
L	425m SW	Electricity Substation	1989	57470
Q	425m SW	Electricity Substation	1993 - 1996	46842
Q	427m SW	Electricity Substation	1989	56871
L	428m SW	Electricity Substation	1969 - 1978	49165



ID	Location	Land use	Dates present	Group ID
13	433m SE	Electricity Substation	1994 - 1998	51571
O	440m W	Electricity Substation	1993 - 1996	53374
14	441m E	Electricity Substation	1978 - 1981	53301
O	442m W	Electricity Substation	1969 - 1989	49204
L	453m SW	Electricity Substation	1969 - 1984	51007
H	457m NE	Electricity Substation	1969 - 1978	57229

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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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

Records within 500m	12
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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
F	182m S	Garage	1989	15358
F	183m S	Garage	1994 - 1998	19389
F	183m S	Garage	1973	15046
F	192m S	Garage	1981	14807
10	369m N	Repair Workshop	1973	14719



ID	Location	Land use	Dates present	Group ID
L	496m SW	Garage	1959	16571
L	497m SW	Garage	1959 - 1996	18614
N	497m W	Garage	1991	16750
L	498m SW	Garage	1984 - 1989	18147
N	498m W	Garage	1993 - 1996	18264
N	499m W	Garage	1991 - 1996	18489
N	499m W	Garage	1989	14937

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

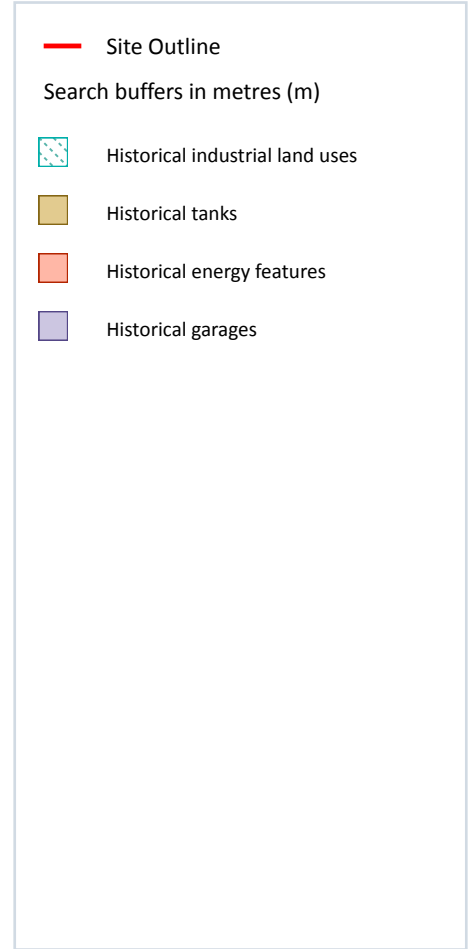
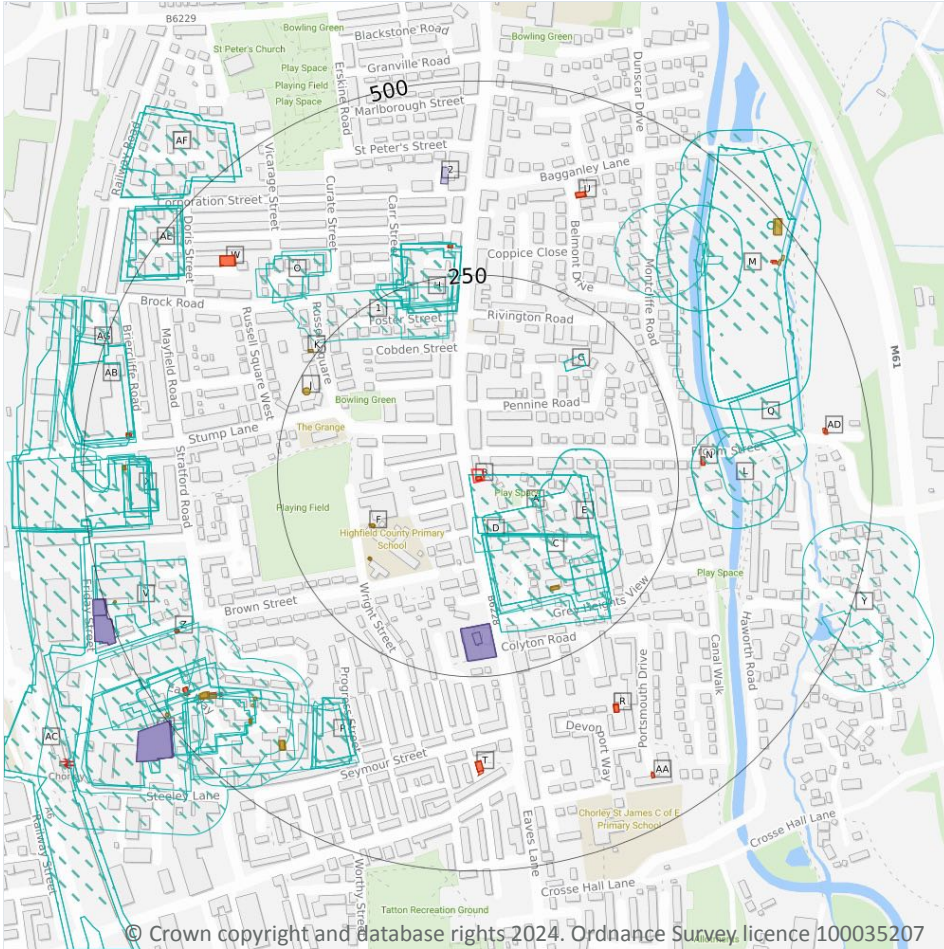
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

129

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 22](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Hospital	1938	744126
A	On site	Hospital	1927	750477
A	On site	Hospital	1909	750477

ID	Location	Land Use	Date	Group ID
C	45m S	Hospital	1974	786815
C	45m S	Hospital	1984	786815
C	45m S	Hospital	1992	786815
D	45m S	Workhouse	1846	641713
C	68m S	Hospital	1938	775063
C	69m S	Hospital	1927	730333
C	69m S	Unspecified Workhouse	1909	758530
C	71m S	Unspecified Workhouse	1893	758530
E	73m E	Hospital	1968	763762
E	73m E	Hospital	1955	763762
C	150m SE	Hospital	1955	714573
C	158m SE	Hospital	1893	729080
G	166m NE	Unspecified Depot	1974	771851
G	166m NE	Unspecified Depot	1984	771851
H	172m N	Unspecified Mill	1893	719694
1	175m N	Cotton Mill	1846	644127
H	205m N	Unspecified Mill	1984	746435
H	205m N	Unspecified Commercial/Industrial	1992	729238
H	206m N	Unspecified Works	1974	697611
H	213m N	Unspecified Commercial/Industrial	1909	745848
H	215m N	Unspecified Mill	1938	724397
H	215m N	Unspecified Mill	1927	775054
H	215m N	Unspecified Works	1968	697611
H	219m N	Unspecified Mill	1955	724397
L	267m E	Unspecified Wharf	1938	714103
L	267m E	Unspecified Wharf	1927	714103
M	279m NE	Unspecified Mills	1938	698082
M	279m NE	Unspecified Mills	1927	698082



ID	Location	Land Use	Date	Group ID
L	301m E	Unspecified Wharf	1955	701930
M	303m E	Unspecified Mills	1909	763933
M	305m NE	Unspecified Wharf	1955	755825
O	309m NW	Unspecified Mill	1955	741563
O	311m NW	Unspecified Mill	1938	781297
O	311m NW	Unspecified Mill	1927	781297
M	316m E	Unspecified Mills	1955	777357
M	316m E	Unspecified Mills	1968	777357
M	316m E	Unspecified Mills	1974	777357
M	316m E	Unspecified Mills	1984	777357
M	316m E	Unspecified Mills	1992	777357
P	324m SW	Unspecified Mill	1955	699924
P	324m SW	Unspecified Commercial/Industrial	1968	783010
P	324m SW	Unspecified Commercial/Industrial	1974	783010
M	325m NE	Unspecified Wharf	1938	730105
M	325m NE	Unspecified Wharf	1927	730105
P	329m SW	Unspecified Mill	1893	768012
Q	329m E	Sewage Works	1938	774542
Q	329m E	Sewage Works	1927	774542
Q	329m E	Sewage Works	1909	774542
S	334m SW	Unspecified Mill	1938	760392
P	335m SW	Unspecified Mill	1938	781309
P	338m SW	Unspecified Mill	1927	781309
P	338m SW	Unspecified Commercial/Industrial	1909	695421
Q	341m E	Sewage Works	1955	706124
S	350m SW	Unspecified Mill	1955	707387
S	352m SW	Unspecified Mills	1893	737903
S	363m SW	Unspecified Factory	1992	776677



ID	Location	Land Use	Date	Group ID
M	375m NE	Unspecified Wharf	1909	697605
M	377m NE	Railway Sidings	1909	641391
S	383m SW	Unspecified Factory	1984	776677
S	384m SW	Unspecified Factory	1974	729177
V	384m W	Weaving Shed	1927	735540
V	384m W	Unspecified Commercial/Industrial	1909	719708
S	396m SW	Unspecified Mill	1968	707387
S	398m SW	Unspecified Commercial/Industrial	1955	642911
X	405m W	Goods Shed	1955	781451
X	405m W	Unspecified Depot	1968	787364
X	405m W	Unspecified Commercial/Industrial	1974	776555
S	406m SW	Unspecified Mills	1927	770993
S	406m SW	Unspecified Mills	1909	770993
X	407m W	Unspecified Depot	1984	725169
X	407m W	Unspecified Commercial/Industrial	1992	723078
S	409m SW	Unspecified Mill	1927	770047
S	409m SW	Unspecified Mill	1909	770047
S	413m SW	Unspecified Mills	1974	743079
X	415m W	Railway Sidings	1938	725521
X	415m W	Railway Sidings	1927	781359
X	416m W	Goods Shed	1938	770947
X	416m W	Goods Shed	1927	770947
X	416m W	Goods Shed	1893	773976
X	417m W	Unspecified Works	1909	678437
X	418m W	Railway Sidings	1893	741045
X	419m W	Railway Building	1893	669276
Y	423m E	Unspecified Mill	1893	656869
V	431m W	Unspecified Works	1968	678432



ID	Location	Land Use	Date	Group ID
V	431m W	Unspecified Commercial/Industrial	1974	728947
AB	433m W	Unspecified Mill	1955	787113
AB	435m W	Unspecified Works	1968	746750
AB	435m W	Unspecified Commercial/Industrial	1974	759347
AB	435m W	Unspecified Factories	1984	713620
AB	436m W	Unspecified Factories	1992	713620
AC	440m W	Railway Sidings	1955	787406
AC	440m W	Railway Sidings	1968	753568
AB	442m W	Unspecified Mill	1938	738444
AB	442m W	Unspecified Mill	1927	738444
S	445m SW	Unspecified Works	1968	678431
V	446m W	Weaving Shed	1893	746771
AE	446m NW	Unspecified Mill	1955	752963
AE	446m NW	Unspecified Commercial/Industrial	1968	642907
AE	446m NW	Unspecified Mill	1992	697644
S	447m SW	Foundry	1846	657559
AE	447m NW	Unspecified Mill	1974	715772
AE	447m NW	Unspecified Mill	1984	715772
X	448m W	Railway Sidings	1909	781359
AE	450m NW	Unspecified Mill	1938	756487
AE	450m NW	Unspecified Mill	1927	756487
AE	450m NW	Unspecified Mill	1909	756487
Y	469m E	Unspecified Works	1846	678430
X	477m W	Railway Buildings	1893	681496
AF	479m NW	Unspecified Mill	1955	700903
AF	479m NW	Unspecified Mill	1968	700903
AF	479m NW	Unspecified Mill	1974	700903
AF	479m NW	Unspecified Mill	1984	700903



ID	Location	Land Use	Date	Group ID
AF	479m NW	Unspecified Commercial/Industrial	1992	642908
AF	479m NW	Unspecified Mill	1938	723099
AF	479m NW	Unspecified Mill	1927	723099
M	482m NE	Chimney	1968	759017
M	482m NE	Chimney	1974	759017
M	482m NE	Chimney	1984	759017
M	482m NE	Chimney	1992	759017
AG	490m W	Unspecified Works	1968	746750
AG	490m W	Unspecified Commercial/Industrial	1974	759347
X	495m W	Railway Building	1938	739480
X	495m W	Railway Building	1927	739480
AH	500m W	Railway Sidings	1927	762515
AH	500m W	Railway Sidings	1909	713759
S	500m SW	Unspecified Mill	1968	752405

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

43

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 22 >](#)

ID	Location	Land Use	Date	Group ID
D	49m S	Unspecified Tank	1893	79399
F	139m SW	Unspecified Tank	1973	98097
F	139m SW	Unspecified Tank	1994	98097
F	139m SW	Unspecified Tank	1998	98097
F	139m SW	Unspecified Tank	1989	98097
F	139m SW	Unspecified Tank	1981	98097



ID	Location	Land Use	Date	Group ID
C	162m SE	Unspecified Tank	1994	96775
C	163m SE	Unspecified Tank	1989	96775
F	164m SW	Unspecified Tank	1994	88674
F	164m SW	Unspecified Tank	1998	88674
F	165m SW	Unspecified Tank	1981	88674
F	165m SW	Unspecified Tank	1989	88674
F	165m SW	Unspecified Tank	1973	88674
J	231m NW	Unspecified Tank	1910	103414
J	231m NW	Unspecified Tank	1928	103414
K	254m NW	Unspecified Tank	1910	98748
K	254m NW	Unspecified Tank	1928	98748
S	394m SW	Unspecified Tank	1959	79383
S	402m SW	Unspecified Tank	1892	79384
S	412m SW	Tanks	1991	92106
S	412m SW	Tanks	1993	92106
S	412m SW	Tanks	1989	92106
S	418m SW	Unspecified Tank	1969	90110
S	419m SW	Unspecified Tank	1978	90110
S	419m SW	Unspecified Tank	1984	90110
S	419m SW	Unspecified Tank	1989	90110
S	429m SW	Tanks	1993	97663
S	435m SW	Tanks	1991	98030
S	437m SW	Tanks	1989	98030
X	445m W	Unspecified Tank	1996	96015
X	445m W	Unspecified Tank	1994	96015
X	445m W	Unspecified Tank	1995	96015
X	445m W	Unspecified Tank	1993	96015
X	445m W	Unspecified Tank	1991	96015



ID	Location	Land Use	Date	Group ID
X	446m W	Unspecified Tank	1989	96015
M	463m NE	Tanks	1910	86293
M	470m NE	Tanks	1959	86294
M	481m NE	Unspecified Tank	1978	97423
M	482m NE	Unspecified Tank	1969	97423
V	485m W	Unspecified Tank	1959	104135
V	486m W	Unspecified Tank	1959	104135
S	493m SW	Unspecified Tank	1959	89943
S	493m SW	Unspecified Tank	1959	89943

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

65

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 22 >](#)

ID	Location	Land Use	Date	Group ID
B	On site	Electricity Substation	1994	57497
B	On site	Electricity Substation	1973	57497
B	On site	Electricity Substation	1981	57497
B	On site	Electricity Substation	1989	57497
N	280m E	Electricity Substation	1994	48403
N	280m E	Electricity Substation	1998	48403
N	280m E	Electricity Substation	1989	48403
H	286m N	Electricity Substation	1990	48629
H	286m N	Electricity Substation	1973	48629
H	286m N	Electricity Substation	1969	48629
H	286m N	Electricity Substation	1994	48629



ID	Location	Land Use	Date	Group ID
H	287m N	Electricity Substation	1969	48629
H	287m N	Electricity Substation	1989	48629
H	287m N	Electricity Substation	1989	48629
H	287m N	Electricity Substation	1978	48629
R	333m SE	Electricity Substation	1994	56925
R	333m SE	Electricity Substation	1998	56925
R	333m SE	Electricity Substation	1989	56925
R	334m SE	Electricity Substation	1981	56925
R	335m SE	Electricity Substation	1973	56925
T	358m S	Electricity Substation	1981	51897
T	358m S	Electricity Substation	1994	50689
T	358m S	Electricity Substation	1998	50689
T	359m S	Electricity Substation	1973	50689
U	370m N	Electricity Substation	1990	57356
U	370m N	Electricity Substation	1973	57356
U	370m N	Electricity Substation	1994	57356
T	370m S	Electricity Substation	1989	49136
U	371m N	Electricity Substation	1989	57356
U	371m N	Electricity Substation	1989	57356
W	402m NW	Electricity Substation	1994	56894
W	402m NW	Electricity Substation	1988	56894
W	402m NW	Electricity Substation	1975	56894
W	402m NW	Electricity Substation	1986	56894
W	402m NW	Electricity Substation	1987	56894
W	402m NW	Electricity Substation	1991	56894
S	423m SW	Electricity Substation	1991	57310
S	424m SW	Electricity Substation	1993	57310
Z	425m SW	Electricity Substation	1991	57912



ID	Location	Land Use	Date	Group ID
S	425m SW	Electricity Substation	1989	57470
Z	425m SW	Electricity Substation	1996	46842
Z	425m SW	Electricity Substation	1994	46842
Z	425m SW	Electricity Substation	1995	46842
Z	425m SW	Electricity Substation	1993	46842
Z	427m SW	Electricity Substation	1989	56871
S	428m SW	Electricity Substation	1969	49165
S	429m SW	Electricity Substation	1978	49165
AA	433m SE	Electricity Substation	1994	51571
AA	433m SE	Electricity Substation	1998	51571
X	440m W	Electricity Substation	1996	53374
X	440m W	Electricity Substation	1994	53374
X	440m W	Electricity Substation	1995	53374
X	440m W	Electricity Substation	1993	53374
AD	441m E	Electricity Substation	1981	53301
X	442m W	Electricity Substation	1969	49204
AD	442m E	Electricity Substation	1978	53301
X	443m W	Electricity Substation	1978	49204
X	443m W	Electricity Substation	1984	49204
X	443m W	Electricity Substation	1989	49204
X	443m W	Electricity Substation	1989	49204
S	453m SW	Electricity Substation	1969	51007
S	454m SW	Electricity Substation	1978	51007
S	454m SW	Electricity Substation	1984	51007
M	457m NE	Electricity Substation	1978	57229
M	458m NE	Electricity Substation	1969	57229

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

28

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 22 >](#)

ID	Location	Land Use	Date	Group ID
I	182m S	Garage	1989	15358
I	183m S	Garage	1994	19389
I	183m S	Garage	1998	19389
I	183m S	Garage	1973	15046
I	192m S	Garage	1981	14807
2	369m N	Repair Workshop	1973	14719
S	496m SW	Garage	1959	16571
S	497m SW	Garage	1959	18614
S	497m SW	Garage	1991	18614
S	497m SW	Garage	1969	18614
S	497m SW	Garage	1993	18614
S	497m SW	Garage	1996	18614
S	497m SW	Garage	1994	18614
S	497m SW	Garage	1995	18614
V	497m W	Garage	1991	16750
S	498m SW	Garage	1984	18147

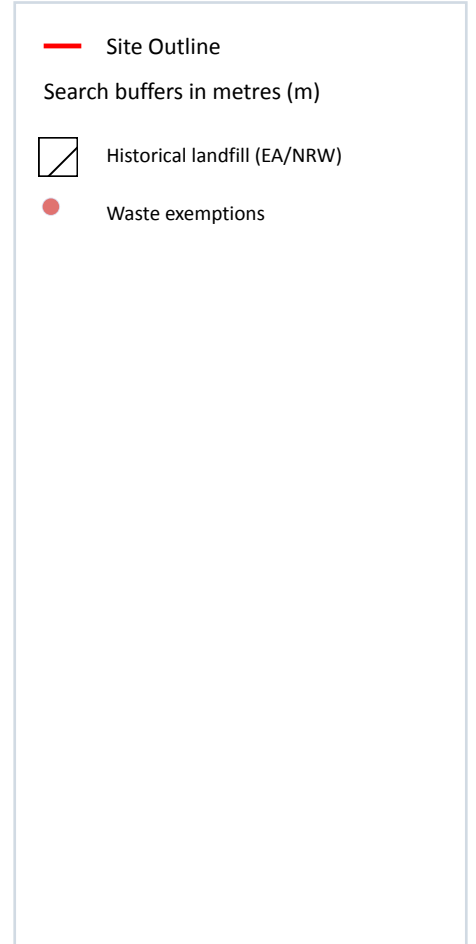
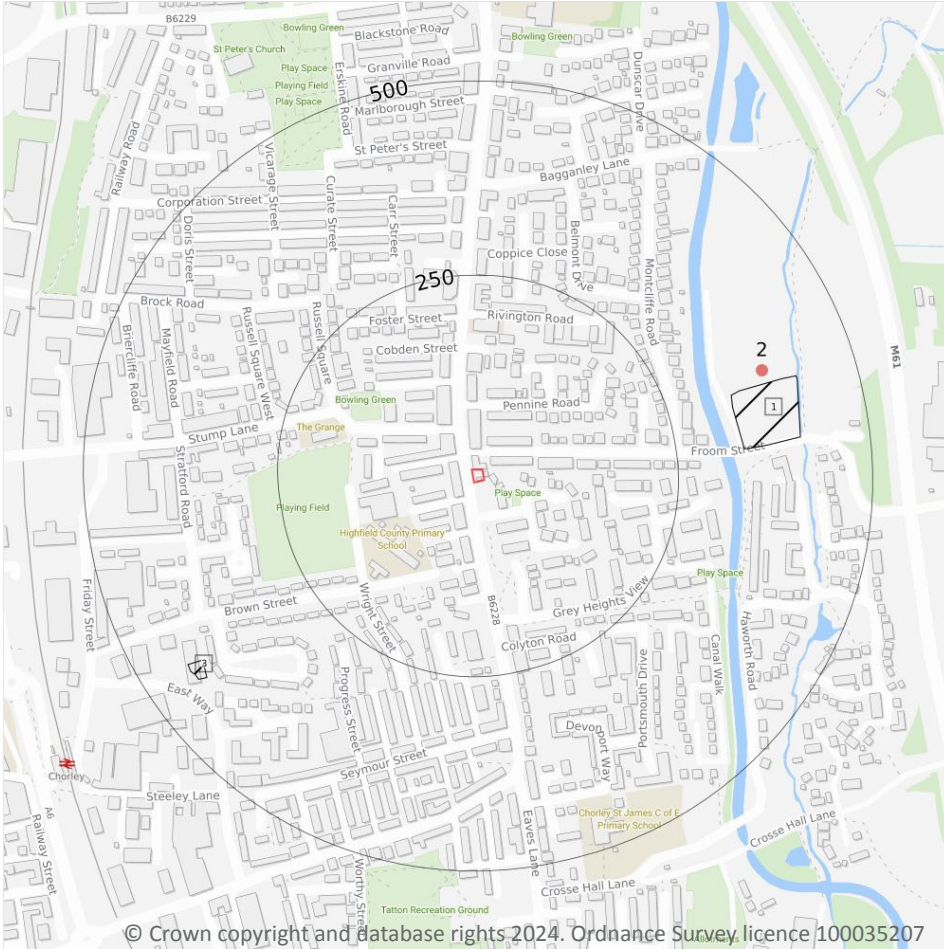


ID	Location	Land Use	Date	Group ID
S	498m SW	Garage	1989	18147
S	498m SW	Garage	1989	18147
V	498m W	Garage	1993	18264
V	498m W	Garage	1996	18264
V	498m W	Garage	1994	18264
V	498m W	Garage	1995	18264
V	499m W	Garage	1991	18489
V	499m W	Garage	1993	18489
V	499m W	Garage	1996	18489
V	499m W	Garage	1994	18489
V	499m W	Garage	1995	18489
V	499m W	Garage	1989	14937

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

2

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 34 >](#)

ID	Location	Details		
1	331m E	Site Address: Talbot Mill, Froom Street, Chorley, Lancashire Licence Holder Address: Talbot Weaving Company, Bagganley Lane, Chorley	Waste Licence: Yes Site Reference: L1/09/113, L73, WD 100/113, K1/09/010 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 16/12/1977 Licence Surrender: 05/03/1993	Operator: - Licence Holder: Courtaulds Limited First Recorded 31/12/1973 Last Recorded: 31/12/1983
3	417m SW	Site Address: Chortex Mill, East Street, Chorley, Lancashire Licence Holder Address: 364, Manchester Road, Oldham, Lancashire	Waste Licence: Yes Site Reference: L1/09/024, WD100/200, K1/09/024, Licence No 150 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 24/07/1981 Licence Surrender: -	Operator: - Licence Holder: Units to Let Limited First Recorded 31/07/1981 Last Recorded: 31/12/1983

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

1

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.

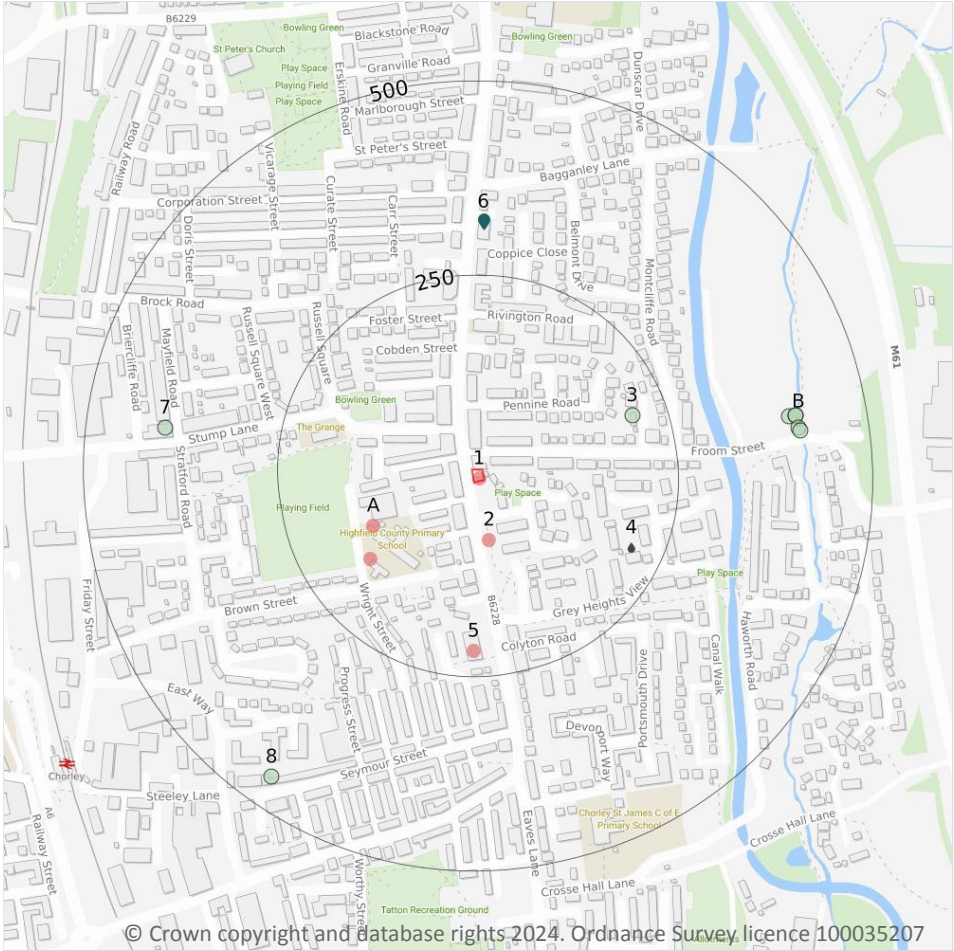
Features are displayed on the Waste and landfill map on [page 34 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
2	382m E	-	WEX192143	Using waste exemption	Not on a farm	Use of waste in construction

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



4 Current industrial land use



- 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 37 >](#)

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Lancashire, PR6	Electrical Features	Infrastructure and Facilities
2	76m S	Electricity Sub Station	Lancashire, PR6	Electrical Features	Infrastructure and Facilities
A	141m SW	Tank	Lancashire, PR6	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
A	166m SW	Tank	Lancashire, PR6	Tanks (Generic)	Industrial Features
5	217m S	Chorley Yamaha Centre Ltd	-, Eaves Lane, Chorley, Lancashire, PR6 OTB	New Vehicles	Motoring

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

1

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

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Address	Details	
6	319m N	Sew and Clean, 244 Eaves Lane, Chorley, PR6 0ET	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Address	Details	
4	208m SE	RIVERMEAD HOMES LTD SWO, REAR EAVES LANE HOSPITAL, CHORLEY, LANCASHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 017091108 Permit Version: 1 Receiving Water: LEEDS/LIVERPOOL CANAL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/05/1989 Revocation Date: 01/11/1994
B	411m E	BAGANLEY FROOM CSO 121CW, 68 FROOM STREET, CHORLEY, LANCASHIRE, PR6 0AN	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01CHR0049 Permit Version: 3 Receiving Water: BLACK BROOK TRIB RIVER YARROW	Status: VARIED UNDER EPR 2010 Issue date: 18/06/2018 Effective Date: 18/06/2018 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
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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
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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
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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
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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	8
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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 37 >](#)

ID	Location	Details	
3	204m E	Incident Date: 11/09/2002 Incident Identification: 107200 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	398m W	Incident Date: 23/11/2001 Incident Identification: 44677 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	400m E	Incident Date: 01/04/2001 Incident Identification: 1283 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	408m E	Incident Date: 25/04/2001 Incident Identification: 3391 Pollutant: Oils and Fuel Pollutant Description: Hydraulic Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	408m E	Incident Date: 25/04/2001 Incident Identification: 3391 Pollutant: Oils and Fuel Pollutant Description: Hydraulic Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	409m E	Incident Date: 02/08/2002 Incident Identification: 96926 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	412m E	Incident Date: 12/06/2001 Incident Identification: 8817 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	459m SW	Incident Date: 09/05/2002 Incident Identification: 77706 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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



4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

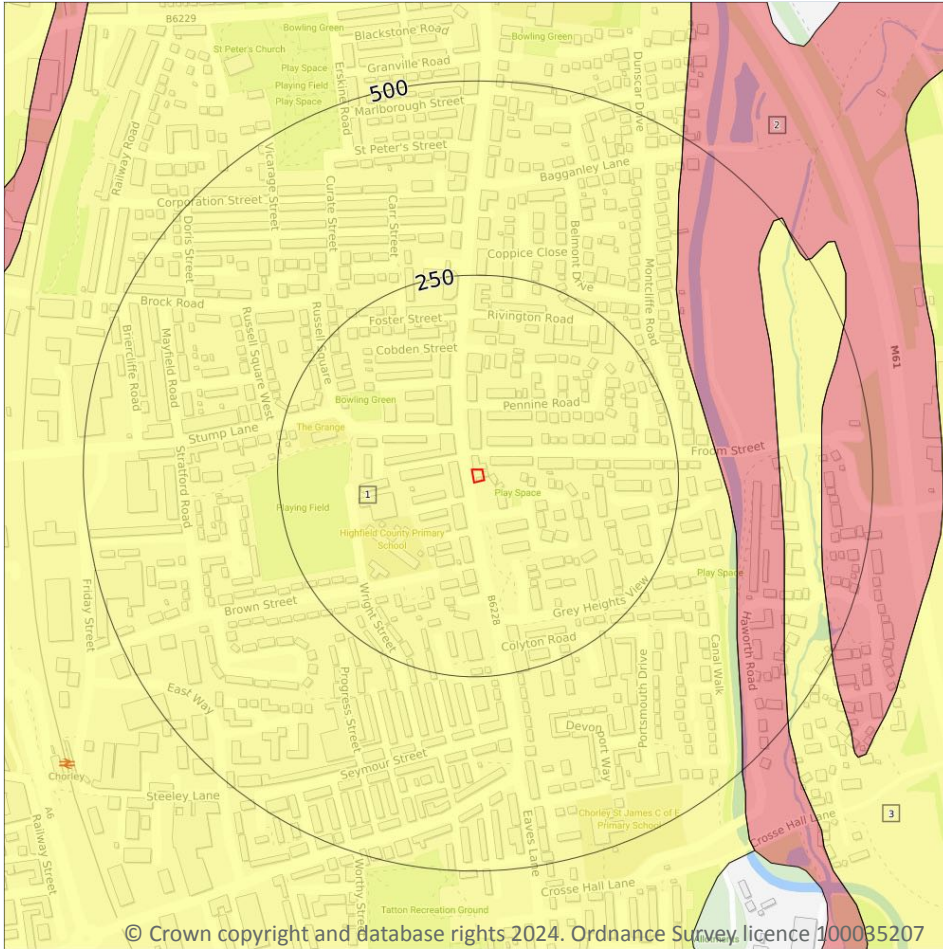
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 44 >](#)

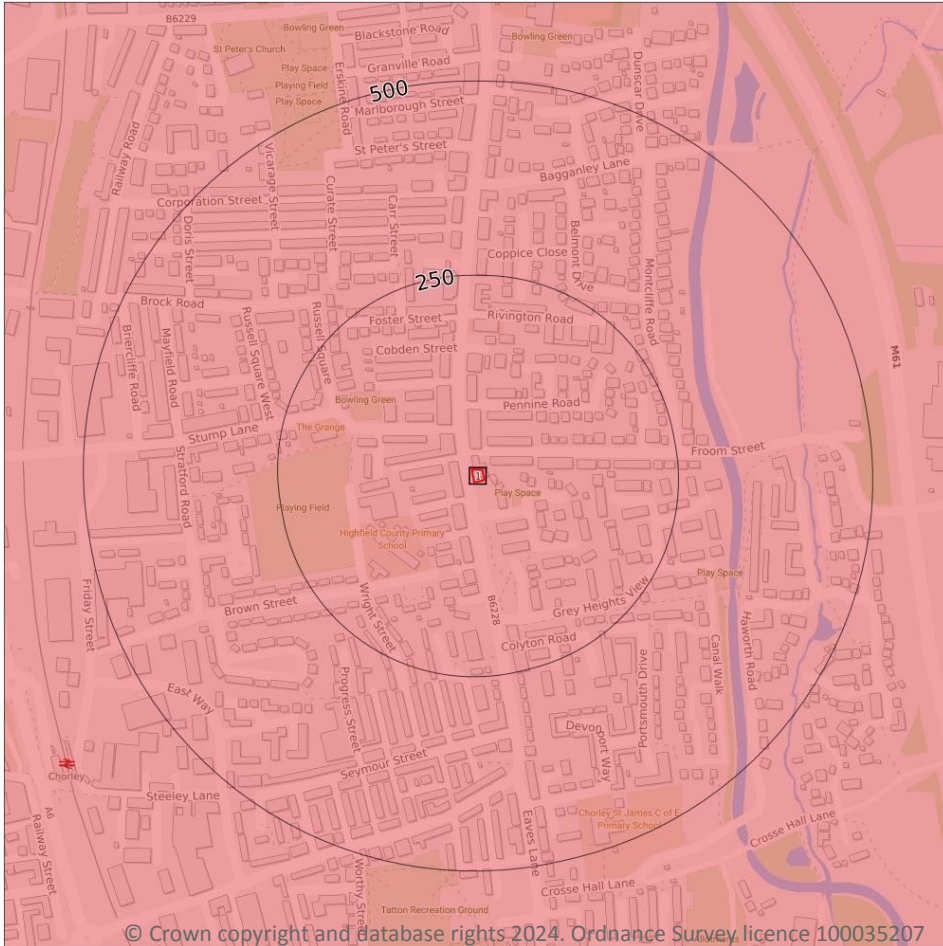
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	294m 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

ID	Location	Designation	Description
3	380m 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

5.2 Bedrock aquifer

Records within 500m

1

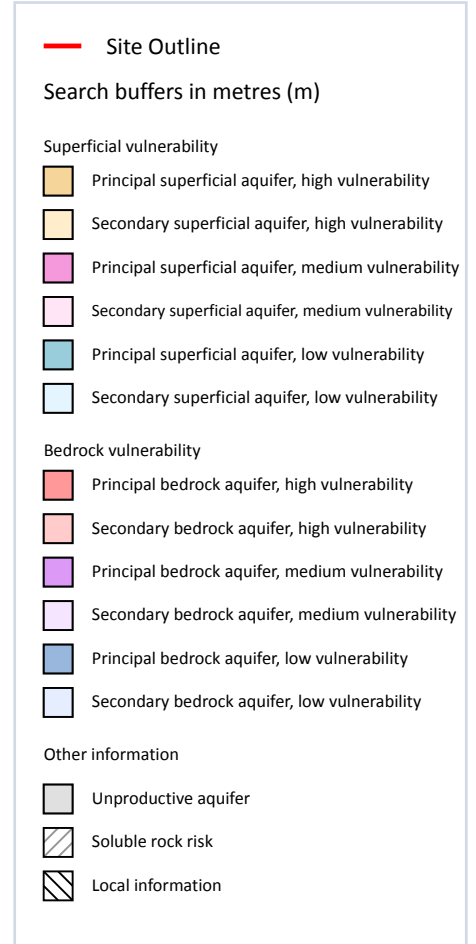
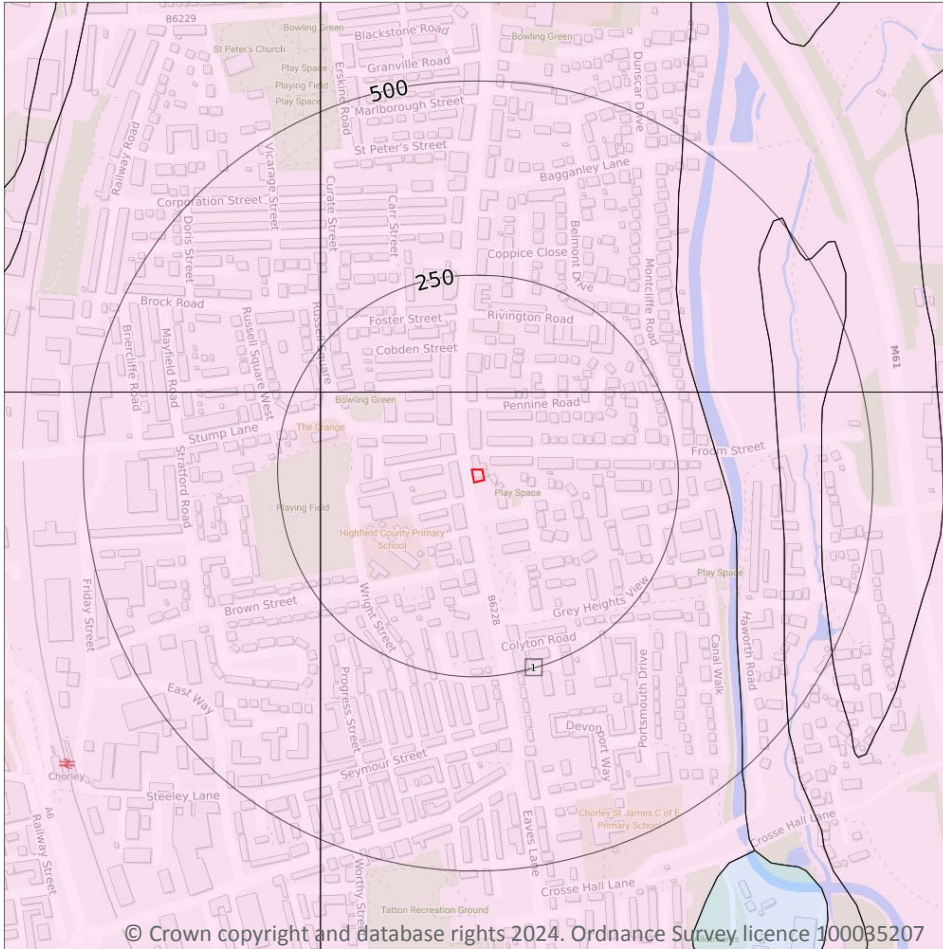
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 46](#) >

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

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 47 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: >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.

5.4 Groundwater vulnerability- soluble rock risk

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

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

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

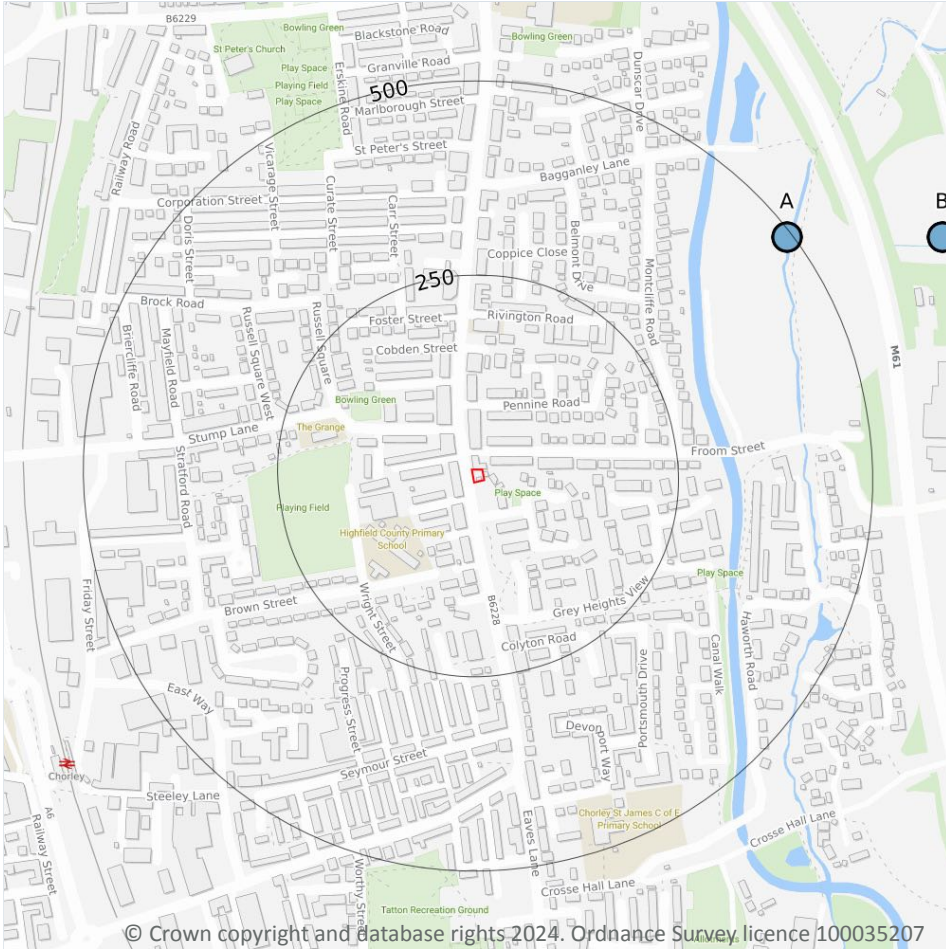
5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

4

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 49 >](#)

ID	Location	Details	
-	1168m N	Status: Historical Licence No: 2670211036 Details: Laundry Use Direct Source: Ground Water - North West Region Point: A BOREHOLE AT CHORLEY NORTH BUSINESS PARK, CHORLEY Data Type: Point Name: THE SUNLIGHT SERVICE GROUP LTD Easting: 358800 Northing: 419000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 10/08/2004 Issue No: 1 Version Start Date: 11/08/1999 Version End Date: -
-	1200m N	Status: Historical Licence No: 2670211037 Details: Laundry Use Direct Source: Ground Water - North West Region Point: BOREHOLE AT CHORLEY Data Type: Point Name: THE SUNLIGHT SERVICE GROUP LTD Easting: 358790 Northing: 419030	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/10/2001 Expiry Date: 03/10/2004 Issue No: 1 Version Start Date: 04/10/2001 Version End Date: -
-	1200m N	Status: Historical Licence No: 2670211039 Details: Laundry Use Direct Source: Ground Water - North West Region Point: BOREHOLE AT CHORLEY Data Type: Point Name: Berendsen UK Limited Easting: 358790 Northing: 419030	Annual Volume (m ³): 85000 Max Daily Volume (m ³): 270 Original Application No: - Original Start Date: 13/01/2005 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 22/07/2013 Version End Date: -
-	1204m N	Status: Active Licence No: 2670211039/R01 Details: Laundry Use Direct Source: Ground Water - North West Region Point: BOREHOLE AT CHORLEY Data Type: Point Name: Elis UK Limited Easting: 358798 Northing: 419038	Annual Volume (m ³): 85000 Max Daily Volume (m ³): 270 Original Application No: NPS/WR/034790 Original Start Date: 10/05/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 11/12/2020 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

24

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 49 >](#)

ID	Location	Details	
A	493m NE	Status: Historical Licence No: 2670211014 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BLACK BRK ADJACENT TO TALBOT MILLS, CHORLEY" Data Type: Point Name: TALBOT WEAVING CO LTD Easting: 359600 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1990 Version End Date: -
A	493m NE	Status: Historical Licence No: 2670211014 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BLACK BRK ADJACENT TO TALBOT MILLS, CHORLEY Data Type: Point Name: TALBOT WEAVING CO LTD Easting: 359600 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1990 Version End Date: -
A	493m NE	Status: Historical Licence No: 2670211014 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BLACK BROOK ADJACENT TO TALBOT MILLS CHORLEY Data Type: Point Name: TALBOT WEAVING CO LTD Easting: 359600 Northing: 418200	Annual Volume (m ³): 1363.8 Max Daily Volume (m ³): 1363.8 Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2005 Version End Date: -
B	663m NE	Status: Historical Licence No: 2670211021 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: OLD MILL RACE AT LOWER HEALEY MILL, CHORLEY, LANCS 278 Data Type: Point Name: THOMAS WITTER LTD Easting: 359800 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/05/1991 Version End Date: -



ID	Location	Details	
B	663m NE	Status: Historical Licence No: 2670211021 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "OLD MILL RACE AT LOWER HEALEY MILL, CHORLEY, LANCS S278" Data Type: Point Name: THOMAS WITTER LTD Easting: 359800 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/05/1991 Version End Date: -
B	663m NE	Status: Historical Licence No: 2670211021 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: OLD MILL RACE AT LOWER HEALEY MILL, CHORLEY, LANCS S278 Data Type: Point Name: PORTER LANCASTRIAN LTD Easting: 359800 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 101 Version Start Date: 04/08/2002 Version End Date: -
B	663m NE	Status: Historical Licence No: 2670211021 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: OLD MILL RACE AT LOWER HEALEY MILL, CHORLEY, LANCS Data Type: Point Name: LOWER HEALEY BUSINESS PARK LLP Easting: 359800 Northing: 418200	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 1363.8 Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 102 Version Start Date: 26/07/2005 Version End Date: -
-	698m E	Status: Historical Licence No: 2670211021 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR AT LOWER HEALEY MILL, CHORLEY, LANCS" Data Type: Point Name: THOMAS WITTER LTD Easting: 359900 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/05/1991 Version End Date: -



ID	Location	Details	
-	698m E	Status: Historical Licence No: 2670211021 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT LOWER HEALEY MILL,CHORLEY, LANCS Data Type: Point Name: LOWER HEALEY BUSINESS PARK LLP Easting: 359900 Northing: 418000	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 1363.8 Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 102 Version Start Date: 26/07/2005 Version End Date: -
-	753m NE	Status: Historical Licence No: 2670211021 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR AT LOWER HEALEY MILL,CHORLEY, LANCS *80" Data Type: Point Name: THOMAS WITTER LTD Easting: 359900 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/05/1991 Version End Date: -
-	753m NE	Status: Historical Licence No: 2670211021 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT LOWER HEALEY MILL,CHORLEY, LANCS *80 Data Type: Point Name: PORTER LANCASTRIAN LTD Easting: 359900 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 101 Version Start Date: 04/08/2002 Version End Date: -
-	753m NE	Status: Historical Licence No: 2670211021 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT LOWER HEALEY MILL,CHORLEY, LANCS Data Type: Point Name: LOWER HEALEY BUSINESS PARK LLP Easting: 359900 Northing: 418200	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 1363.8 Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 102 Version Start Date: 26/07/2005 Version End Date: -



ID	Location	Details	
-	1230m SE	Status: Historical Licence No: 2670211038 Details: Make-Up Or Top Up Water Direct Source: Surface, Non-Tidal - North West Region Point: CHORLEY RESERVOIR, CHORLEY Data Type: Point Name: ENVIRONMENT AGENCY Easting: 360270 Northing: 417260	Annual Volume (m ³): 16250 Max Daily Volume (m ³): 4000 Original Application No: - Original Start Date: 21/10/2004 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1275m NE	Status: Historical Licence No: 2670211019 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: WARTH (OR BLACK) BRK BELOW THE GOYT AT WHITE COPPICE, &277 Data Type: Point Name: THOMAS WITTER LTD Easting: 360000 Northing: 418900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 09/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/05/1991 Version End Date: -
-	1275m NE	Status: Historical Licence No: 2670211019 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "WARTH (OR BLACK) BRK BELOW THE GOYT AT WHITE COPPICE, &\$277" Data Type: Point Name: THOMAS WITTER LTD Easting: 360000 Northing: 418900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 09/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/05/1991 Version End Date: -
-	1275m NE	Status: Historical Licence No: 2670211019 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: WARTH (OR BLACK) BRK BELOW THE GOYT AT WHITE COPPICE, &\$277 Data Type: Point Name: PORTER LANCASTRIAN LTD Easting: 360000 Northing: 418900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 09/12/1966 Expiry Date: - Issue No: 101 Version Start Date: 04/08/2002 Version End Date: -



ID	Location	Details	
-	1275m NE	Status: Historical Licence No: 2670211019 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: WARTH (OR BLACK) BRK BELOW THE GOYT AT WHITE COPPICE Data Type: Point Name: LOWER HEALEY BUSINESS PARK LLP Easting: 360000 Northing: 418900	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 1363.8 Original Application No: - Original Start Date: 09/12/1966 Expiry Date: - Issue No: 102 Version Start Date: 26/07/2005 Version End Date: -
-	1373m SE	Status: Historical Licence No: 2670210002 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: INTEGRATED COMPLEX AT RIVINGTON 275 Data Type: Point Name: NORTH WEST WATER LTD Easting: 360400 Northing: 417200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1995 Version End Date: -
-	1373m SE	Status: Historical Licence No: 2670210002 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: INTEGRATED COMPLEX AT RIVINGTON \$275 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 360400 Northing: 417200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1995 Version End Date: -
-	1373m SE	Status: Historical Licence No: 2670210002 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: INTEGRATED COMPLEX AT RIVINGTON Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 360400 Northing: 417200	Annual Volume (m ³): - Max Daily Volume (m ³): 113650 Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1995 Version End Date: -



ID	Location	Details	
-	1764m E	Status: Historical Licence No: 2670211029 Details: General Farming & Domestic Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT ROUGH LEE FARM, HEAPEY" Data Type: Point Name: BARR Easting: 360900 Northing: 418400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1994 Expiry Date: - Issue No: 100 Version Start Date: 23/11/1994 Version End Date: -
-	1764m E	Status: Historical Licence No: 2670211029 Details: General Farming & Domestic Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT ROUGH LEE FARM, HEAPEY Data Type: Point Name: BARR Easting: 360900 Northing: 418400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1994 Expiry Date: - Issue No: 100 Version Start Date: 23/11/1994 Version End Date: -
-	1926m S	Status: Historical Licence No: NW/070/0211/007 Details: Fish Pass/Canoe Pass Direct Source: Surface, Non-Tidal - North West Region Point: DUXBURY WEIR FISH PASS Data Type: Point Name: Environment Agency Easting: 359182 Northing: 415957	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS WR/007936 Original Start Date: 23/08/2012 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 23/08/2012 Version End Date: -
-	1977m SW	Status: Historical Licence No: 2670211006 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RES AT CHORLEY FED BY PONDS & SPRINGEAST OF BURGH LANE Data Type: Point Name: PERRITE LTD Easting: 358040 Northing: 416280	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/03/1966 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

3

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 49 >](#)

ID	Location	Details	
-	1373m SE	Status: Historical Licence No: 2670210002 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: INTEGRATED COMPLEX AT RIVINGTON 275 Data Type: Point Name: NORTH WEST WATER LTD Easting: 360400 Northing: 417200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1995 Version End Date: -
-	1373m SE	Status: Historical Licence No: 2670210002 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: INTEGRATED COMPLEX AT RIVINGTON \$275 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 360400 Northing: 417200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1995 Version End Date: -
-	1373m SE	Status: Historical Licence No: 2670210002 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: INTEGRATED COMPLEX AT RIVINGTON Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 360400 Northing: 417200	Annual Volume (m ³): - Max Daily Volume (m ³): 113650 Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1995 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m

0

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

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

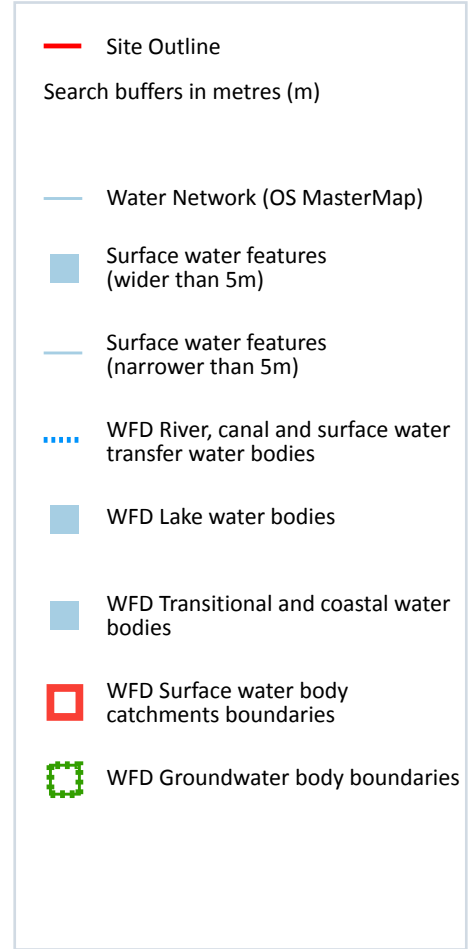
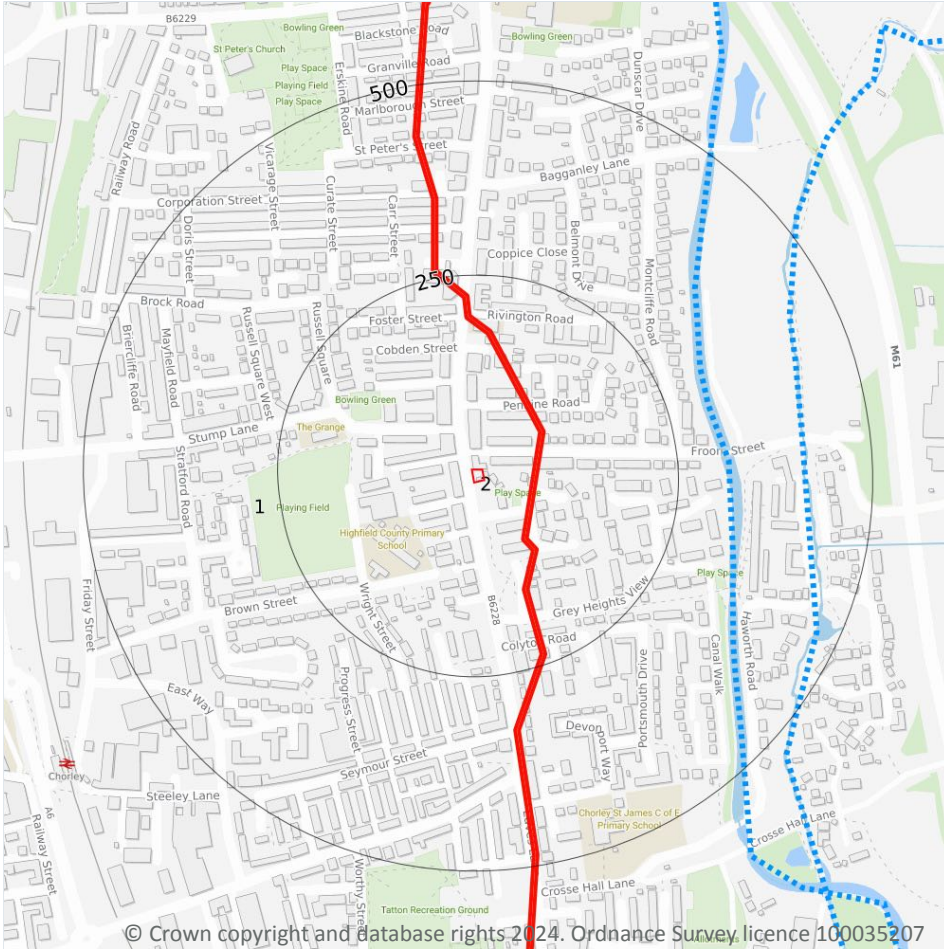
0

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

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



6 Hydrology



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 59 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Yarrow DS Big Lodge Water	GB112070064952	Yarrow and Lostock	Douglas

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 59 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	724m NW	River	Yarrow DS Big Lodge Water	GB112070064952 ↗	Moderate	Fail	Moderate	2019

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 59 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Douglas, Darwen and Calder Carboniferous Aquifers	GB41202G100300 ↗	Poor	Poor	Good	2019

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 the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; 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). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 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.

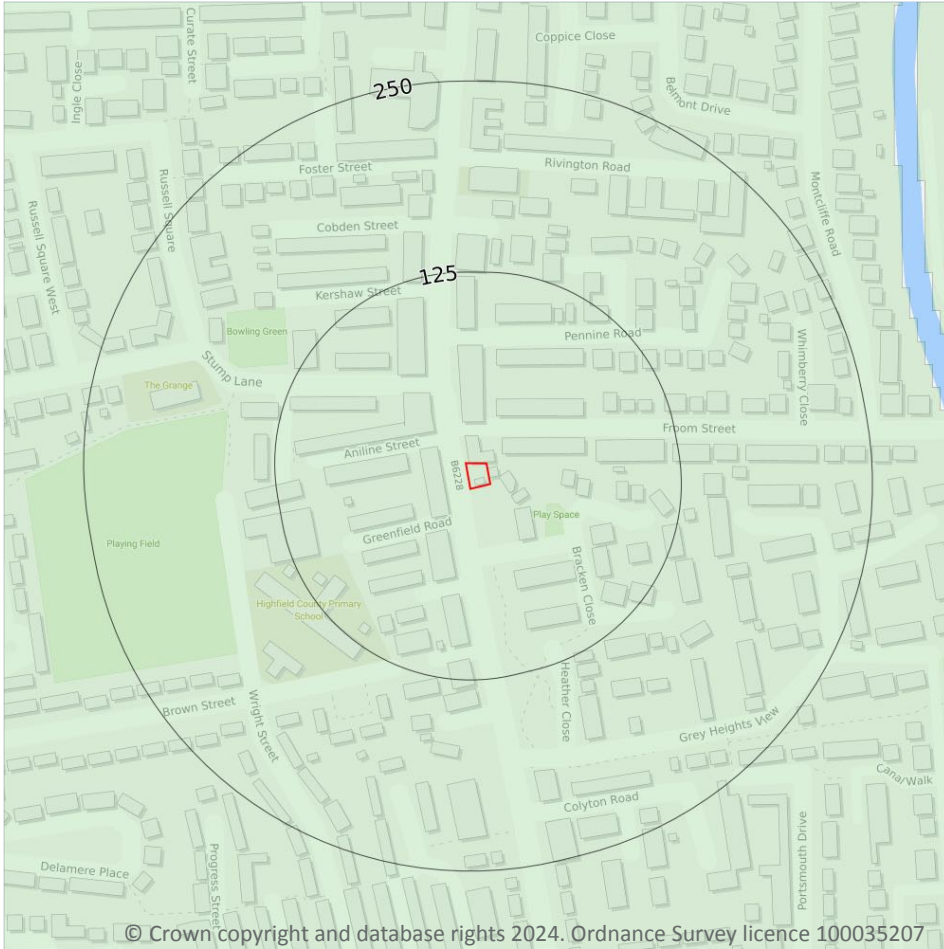
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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

Low

Highest risk within 50m

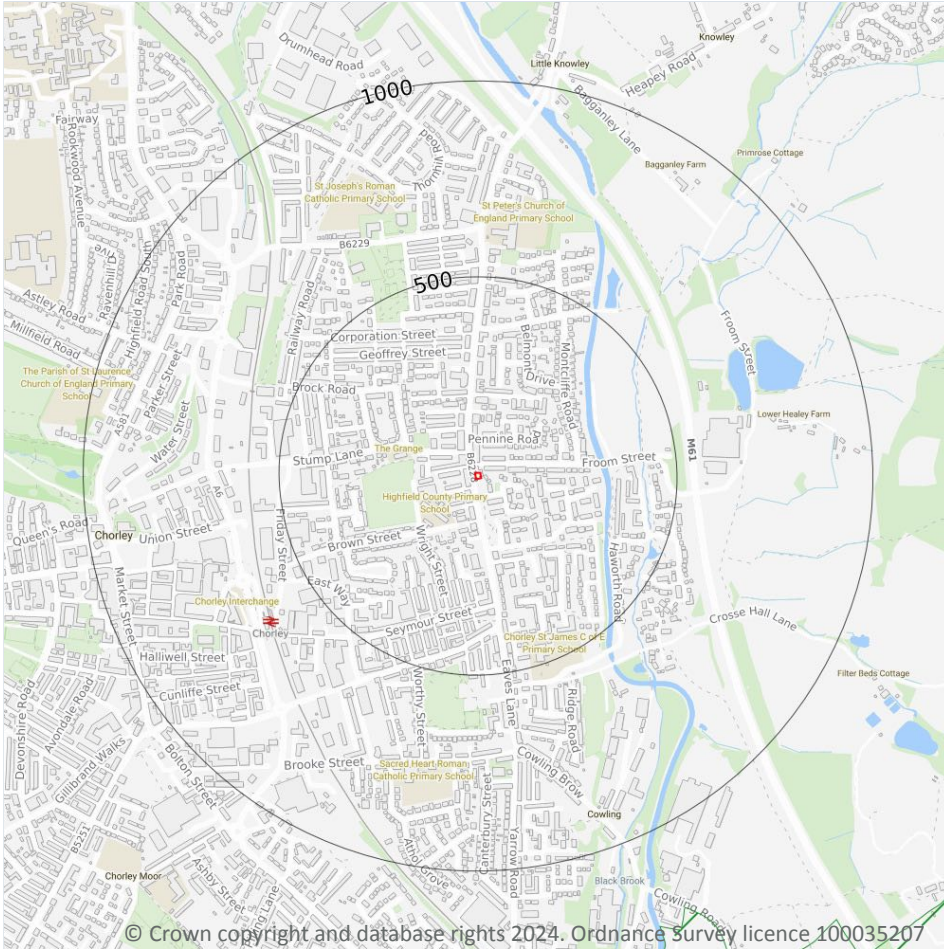
Low

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 66](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



10.1 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.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

9

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 67 >](#)

ID	Location	Name	Woodland Type
-	1291m E	Unknown	Ancient Replanted Woodland
-	1323m W	Unknown	Ancient & Semi-Natural Woodland
-	1592m S	Spring Wood	Ancient & Semi-Natural Woodland
-	1618m NE	Temple Wood	Ancient & Semi-Natural Woodland
-	1665m S	Spring Wood	Ancient & Semi-Natural Woodland
-	1923m E	Grey Heights Wood	Ancient & Semi-Natural Woodland
-	1944m E	Grey Heights Wood	Ancient Replanted Woodland
-	1992m E	Grey Heights Wood	Ancient Replanted Woodland
-	1995m SW	Wallets Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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



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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 67 >](#)

ID	Location	Name	Local Authority name
1	1213m SE	Merseyside and Greater Manchester	Chorley

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

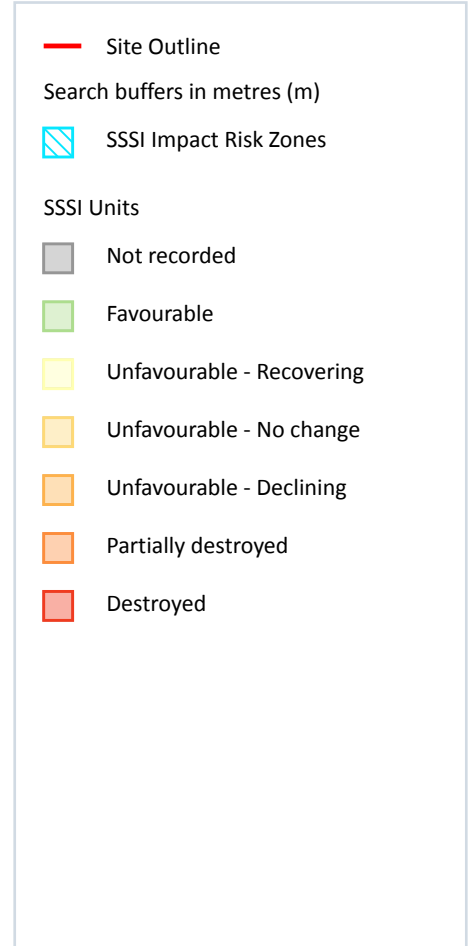
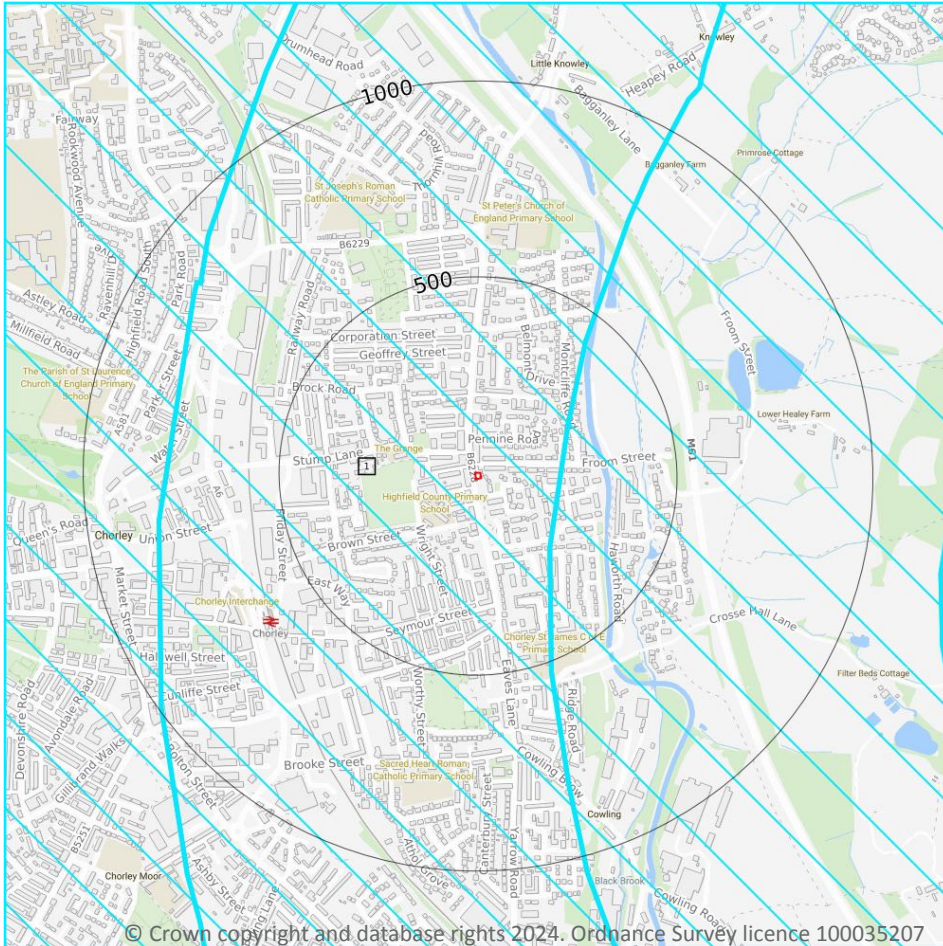
0

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.

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



SSSI Impact Zones and Units



10.17 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 72 >](#)

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 & gas exploration/extraction.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p>

This data is sourced from Natural England.

10.18 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.



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

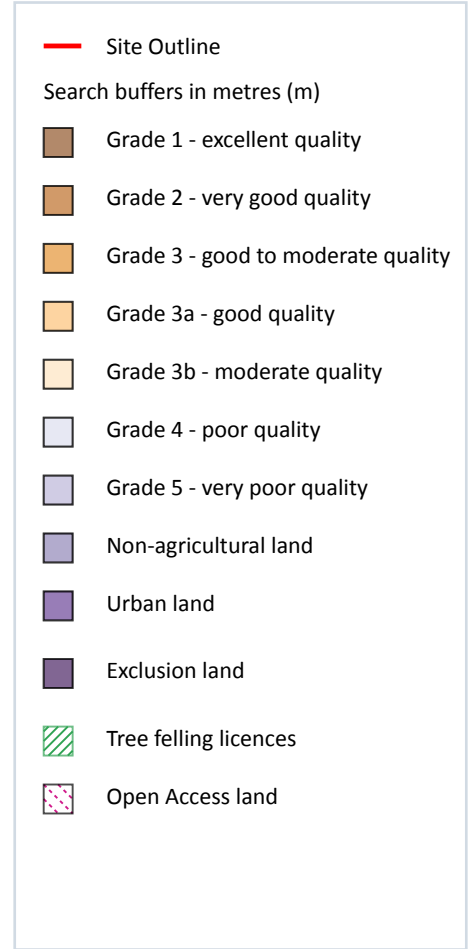
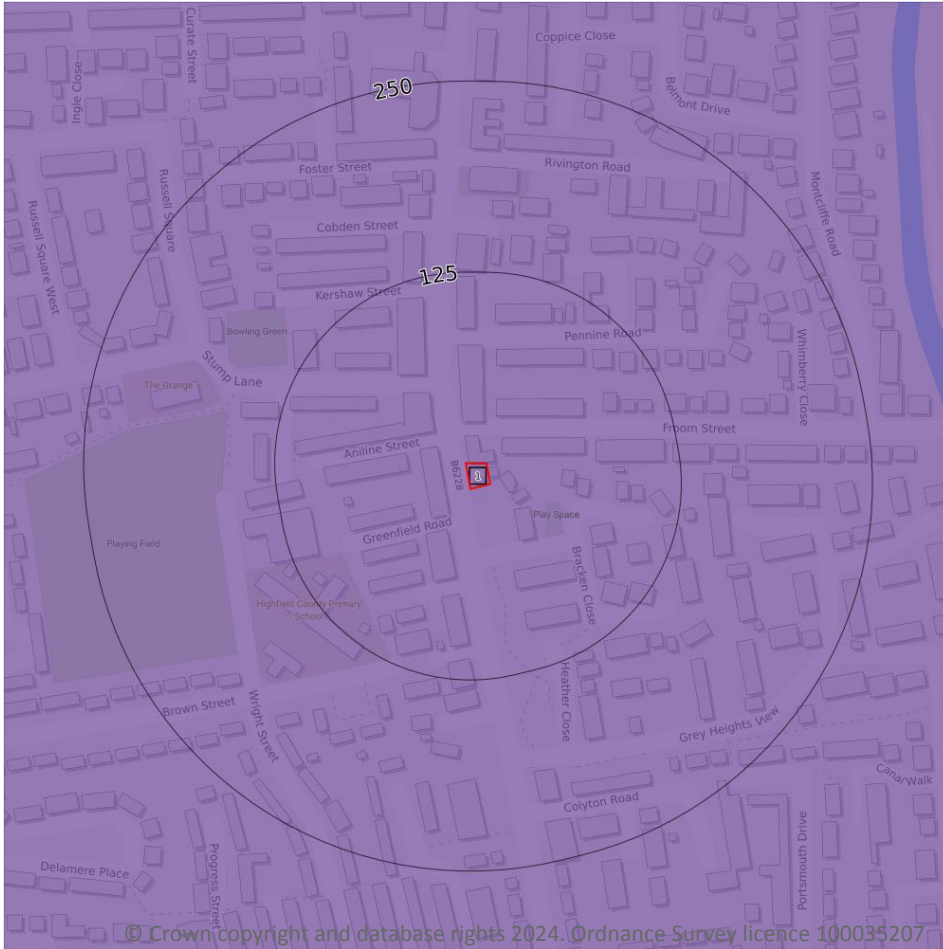
0

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



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 76](#) >

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

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

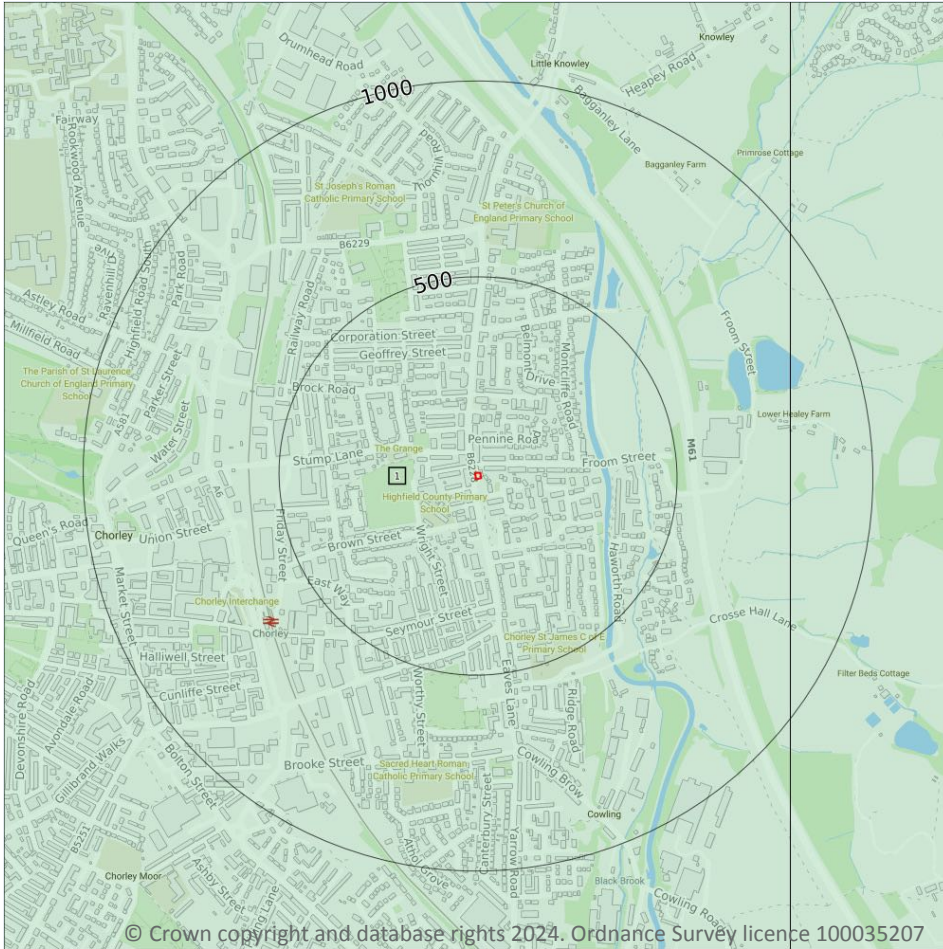
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable 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

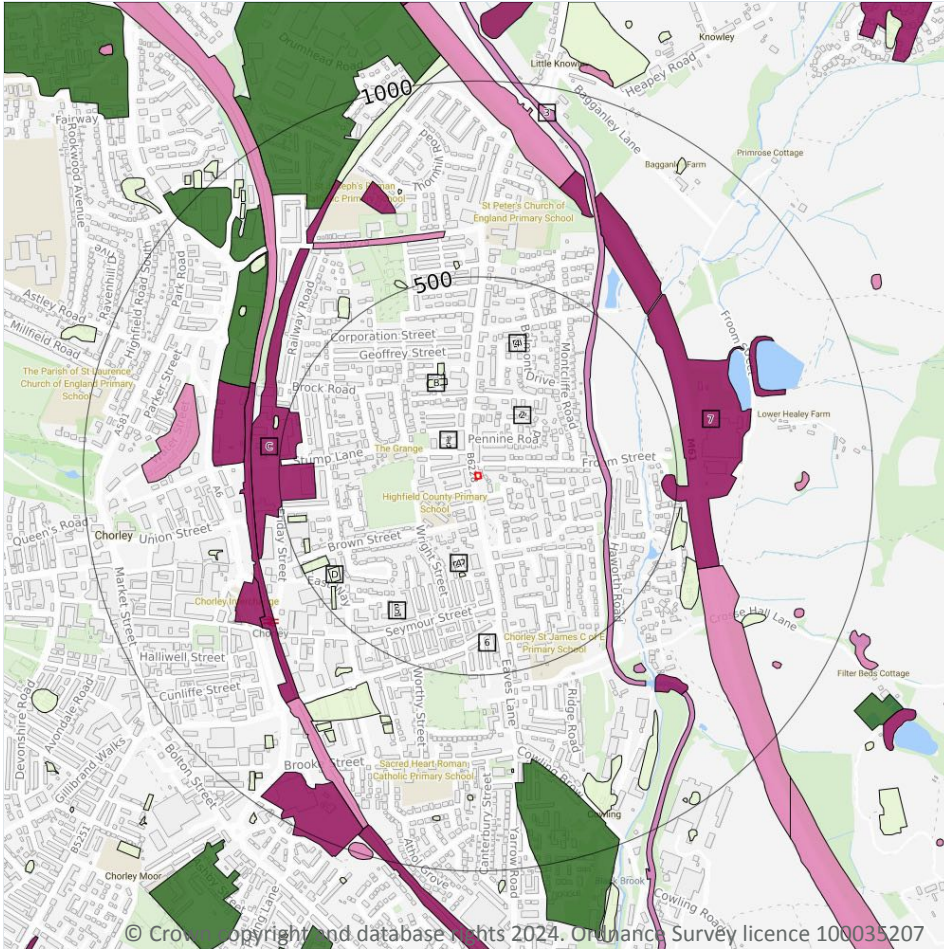
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 79](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD51NE

This data is sourced from the British Geological Survey.

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



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

17

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 80](#) >

ID	Location	LEX Code	Description	Rock description
1	90m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	175m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	208m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	236m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit

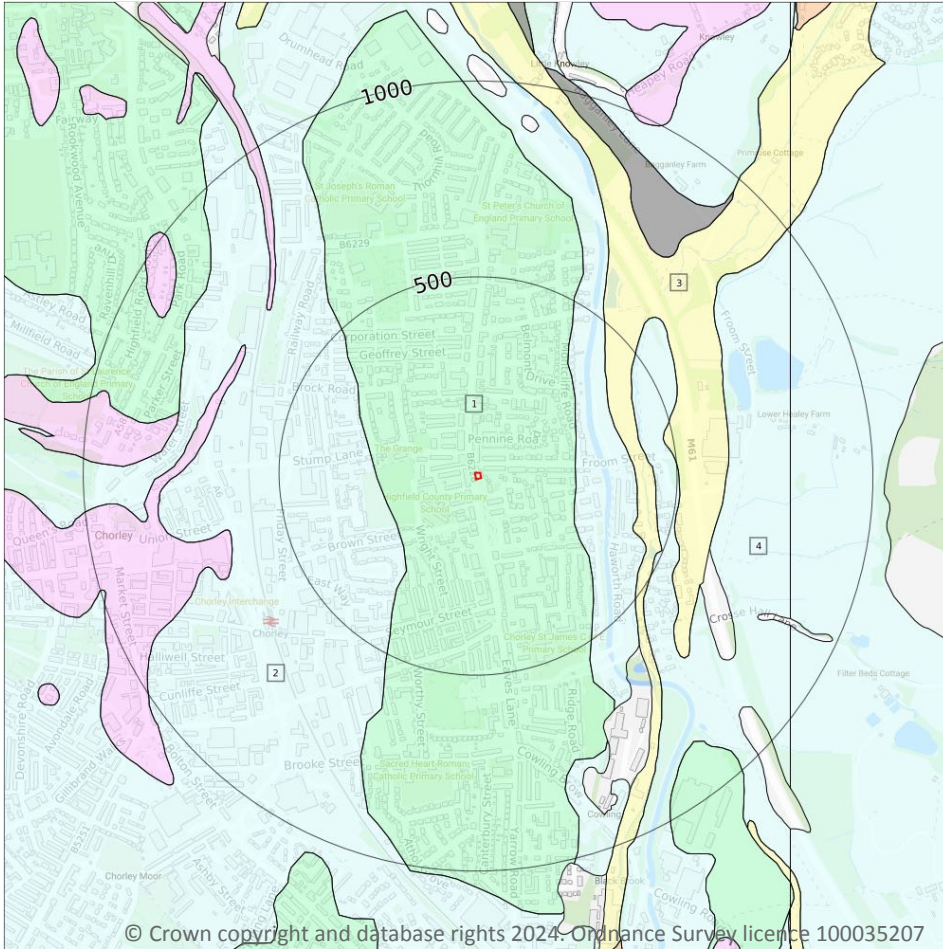



ID	Location	LEX Code	Description	Rock description
A	240m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	263m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	296m E	WGR-VOID	Worked Ground (Undivided)	Void
4	333m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	376m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
C	409m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	411m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	415m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	430m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	443m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	452m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	452m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	461m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

4

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 82 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	HMGDD-XCSV	Hummocky (moundy) Glacial Deposits, Devensian - Clay, Sand And Gravel	Clay, Sand And Gravel
2	232m SW	TILLD-CSVZ	Till, Devensian - Clay, Sandy, Gravelly, Silty (unlithified Deposits Coding Scheme)	Clay, Sandy, Gravelly, Silty
3	363m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	413m E	TILLD-CSVZ	Till, Devensian - Clay, Sandy, Gravelly, Silty (unlithified Deposits Coding Scheme)	Clay, Sandy, Gravelly, Silty

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

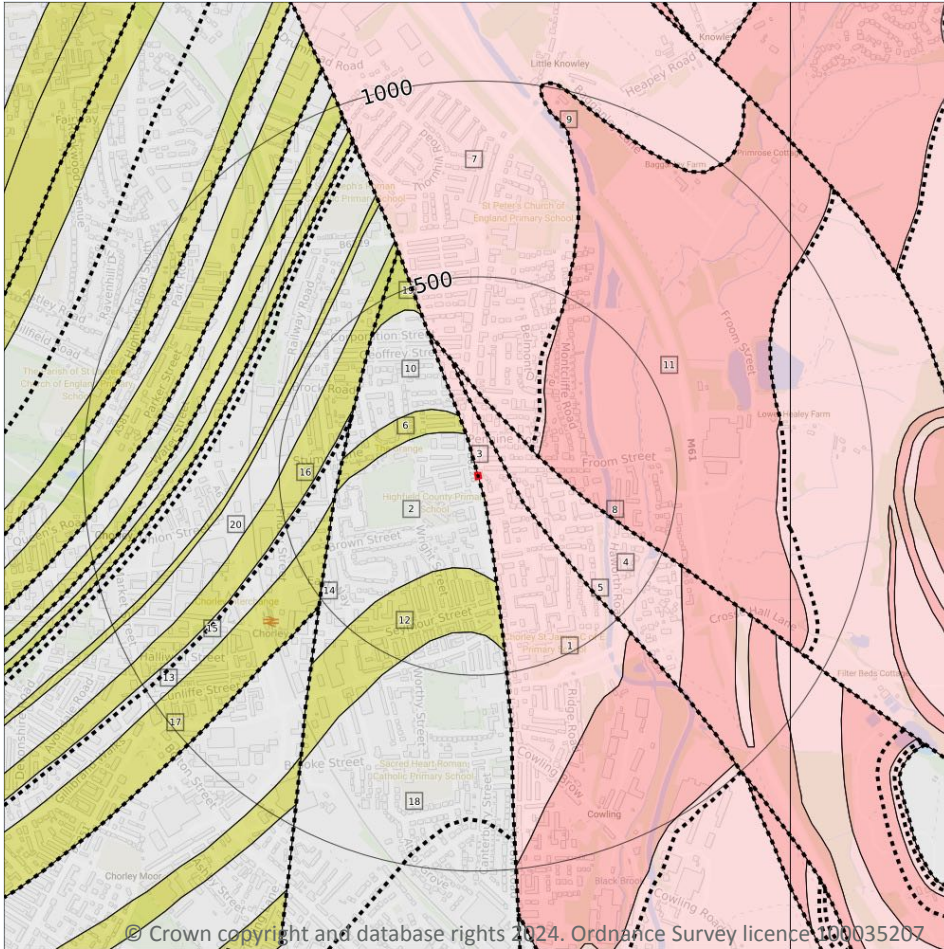
0

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

14

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 84](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	ROSSE-MDSS	Rossendale Formation - Mudstone, Siltstone And Sandstone	Yeadonian Sub-age
2	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
4	62m NE	ROSSE-MDSS	Rossendale Formation - Mudstone, Siltstone And Sandstone	Yeadonian Sub-age
6	102m N	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
7	137m NE	ROSSE-MDSS	Rossendale Formation - Mudstone, Siltstone And Sandstone	Yeadonian Sub-age
10	151m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	153m E	LH-SDST	Lower Haslingden Flags - Sandstone	Yeadonian Sub-age
12	228m S	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
13	338m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	351m NW	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
17	365m W	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
18	390m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	426m N	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
20	441m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

6

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 84](#) >

ID	Location	Category	Description
3	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
5	62m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	137m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
9	144m NE	FOSSIL_HORIZON	Fossil horizon, marine band ()

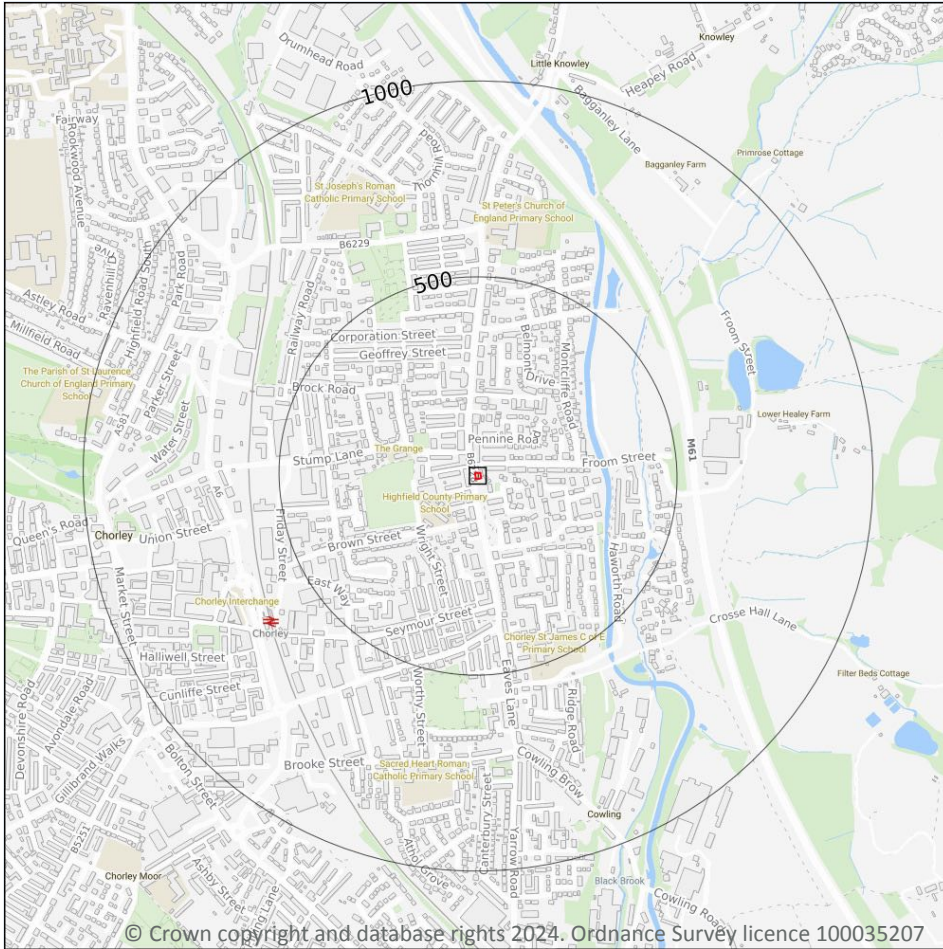


ID	Location	Category	Description
14	338m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
15	345m NW	FOSSIL_HORIZON	Fossil horizon, marine band (Tonge's Marine Band (Gastrioceras amaliae))

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 87](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW075_preston_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

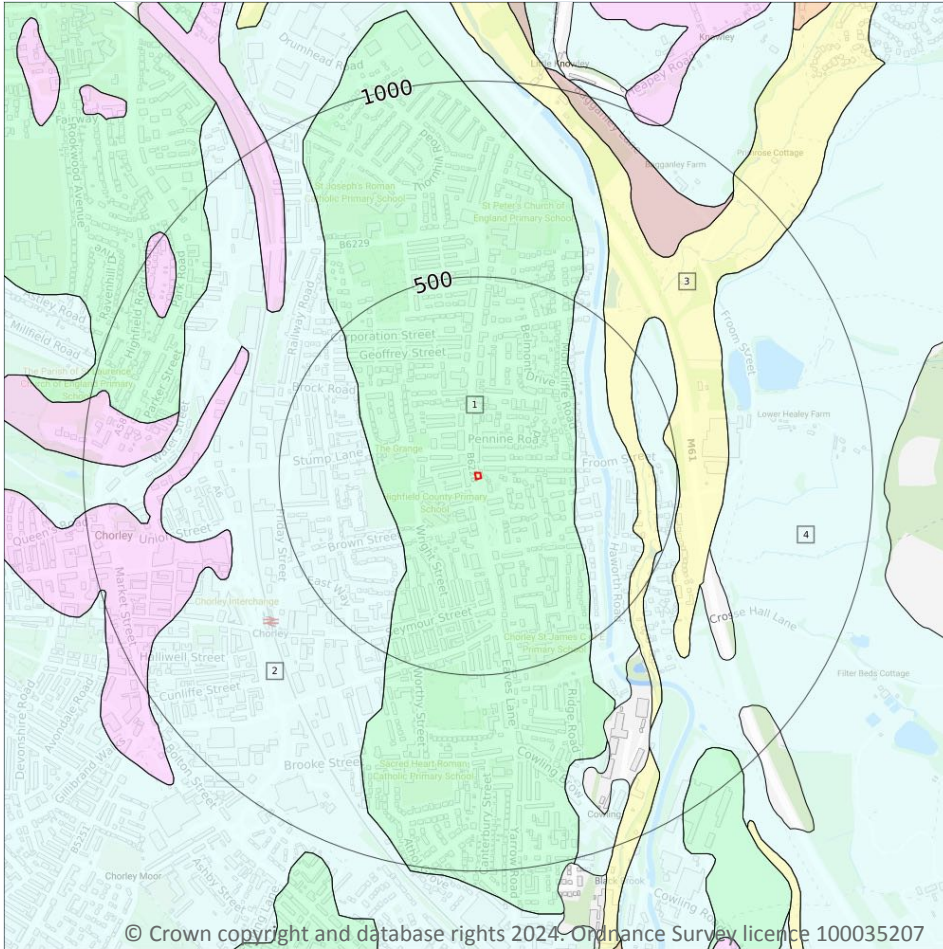
0

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

4

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 89](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	HMGDD-XCSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	CLAY, SAND AND GRAVEL
2	232m SW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	362m E	ALV-XCSV	ALLUVIUM	CLAY, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	413m E	TILLD-DMTN	TILL, DEVENSIAN	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	Mixed	High	Low

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

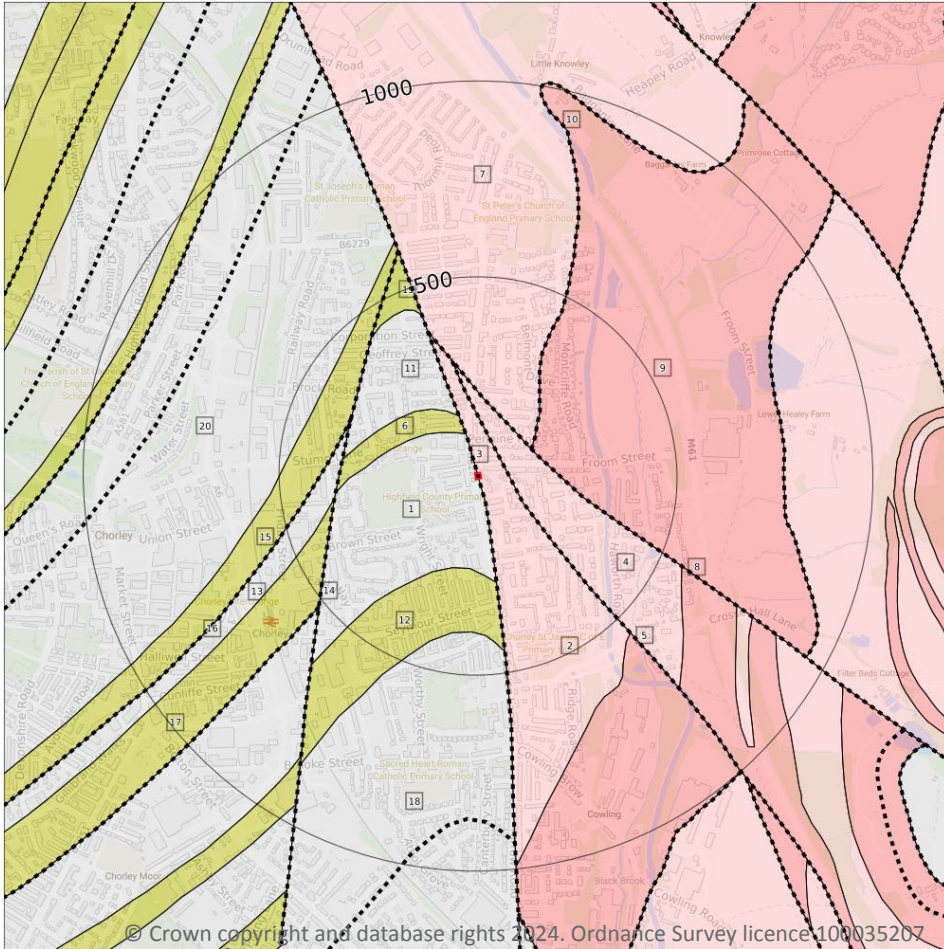
0

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

14

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 91](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	ROSSE-MDSS	ROSSENDALE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
4	62m NE	ROSSE-MDSS	ROSSENDALE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
6	102m N	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
7	137m NE	ROSSE-MDSS	ROSSENDALE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
9	144m NE	LH-SDST	LOWER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
11	151m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	228m S	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
13	338m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	345m NW	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
17	365m W	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
18	390m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	426m N	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
20	441m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

2

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	Moderate	Low
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

6

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.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 91](#) >

ID	Location	Category	Description
3	On site	FAULT	Fault, inferred
5	62m NE	FAULT	Fault, inferred
8	137m NE	FAULT	Fault, inferred
10	144m NE	FOSSIL_HORIZON	Marine band
14	338m W	FAULT	Fault, inferred
16	345m NW	FOSSIL_HORIZON	Marine band

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

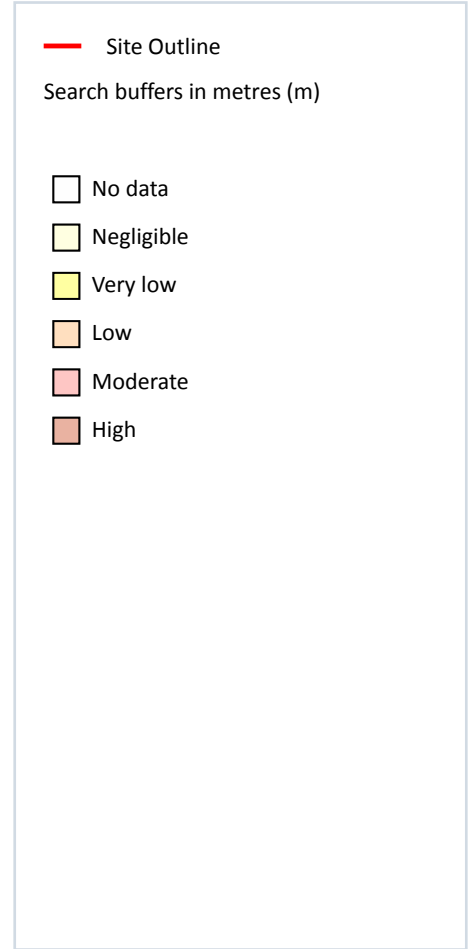
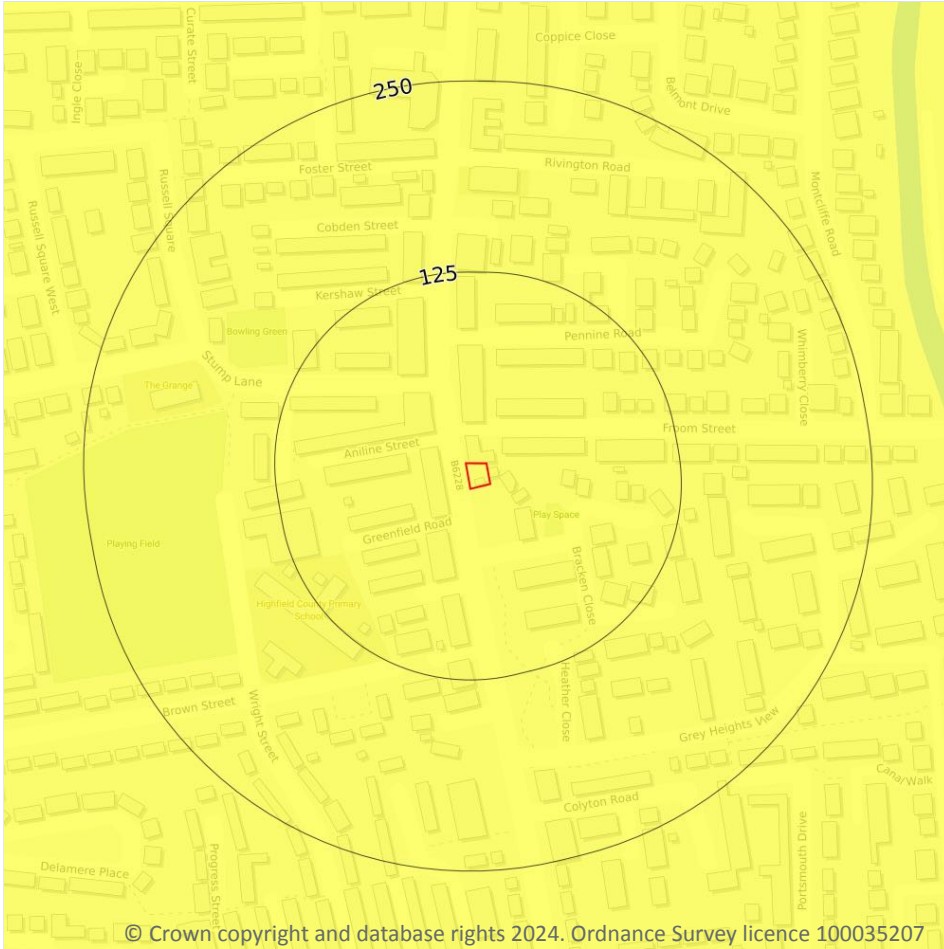
0

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.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

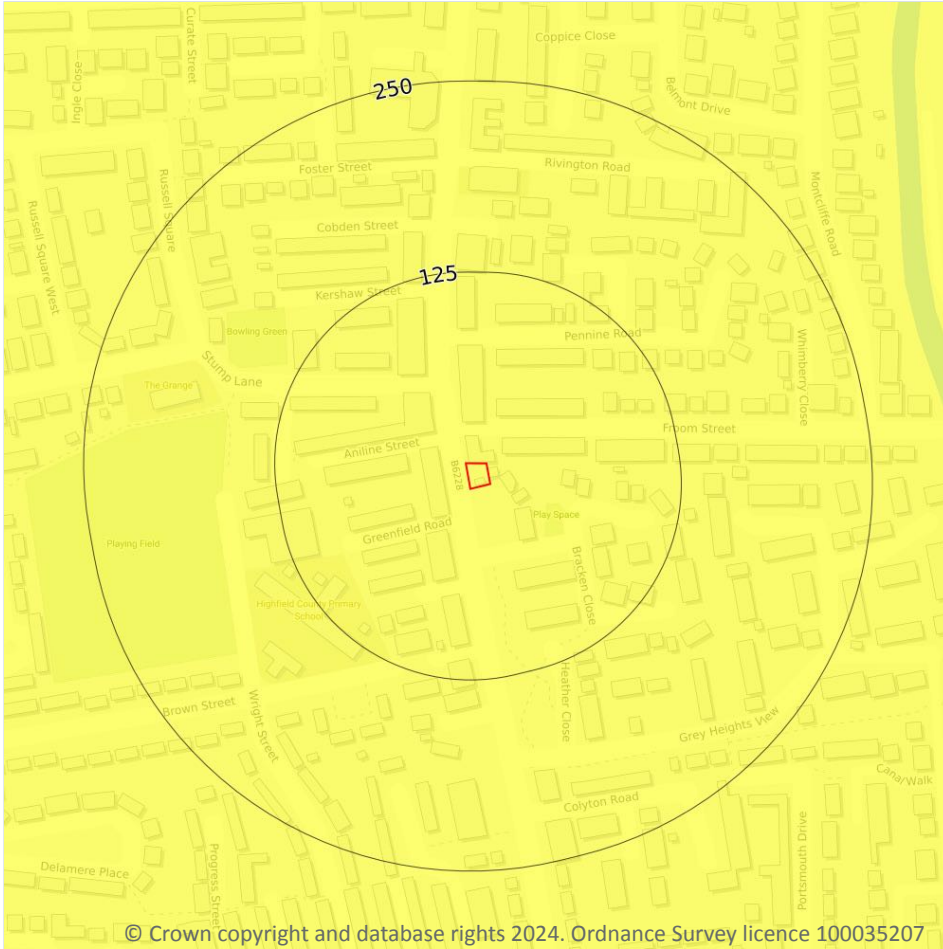
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 95](#) >

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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.

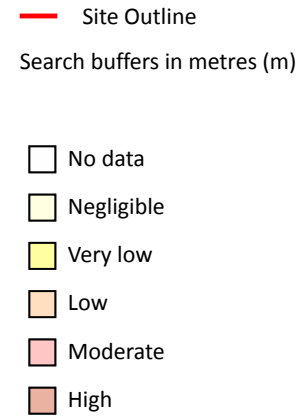
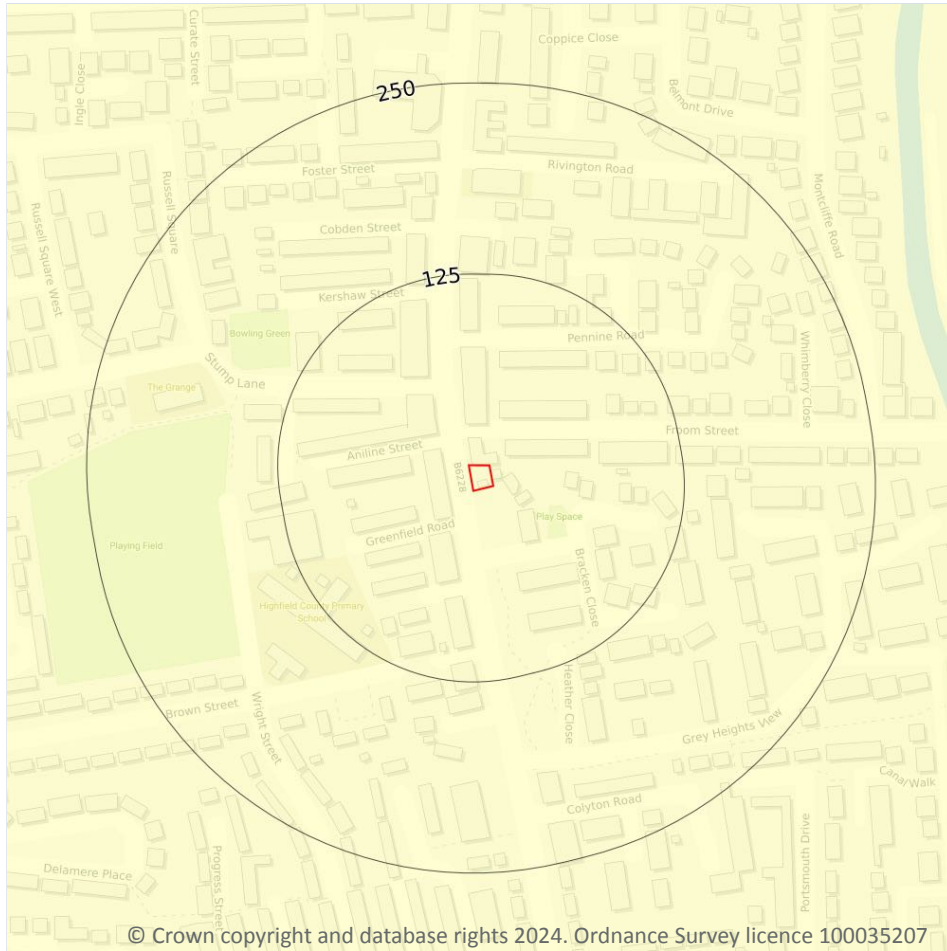
Features are displayed on the Natural ground subsidence - Running sands map on [page 96](#) >

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



17.3 Compressible deposits

Records within 50m

1

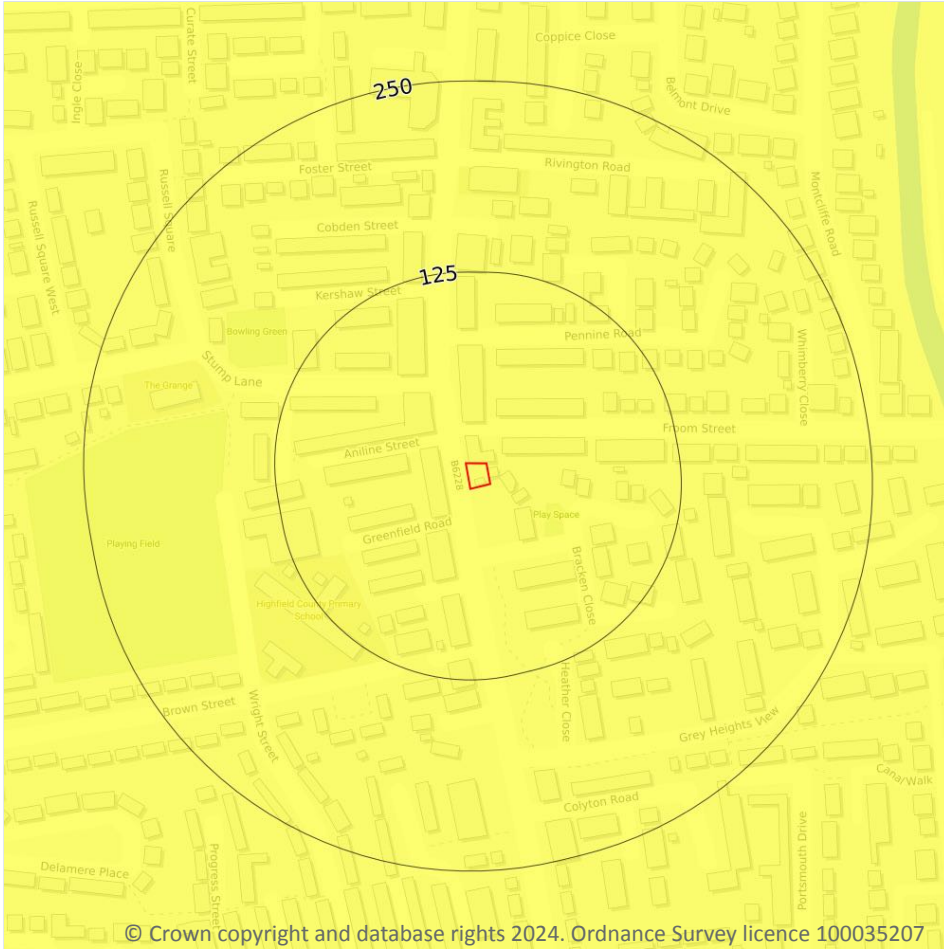
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 97](#) >

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



17.4 Collapsible deposits

Records within 50m

1

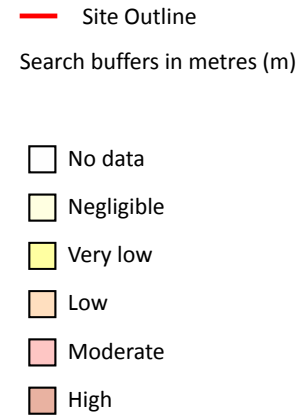
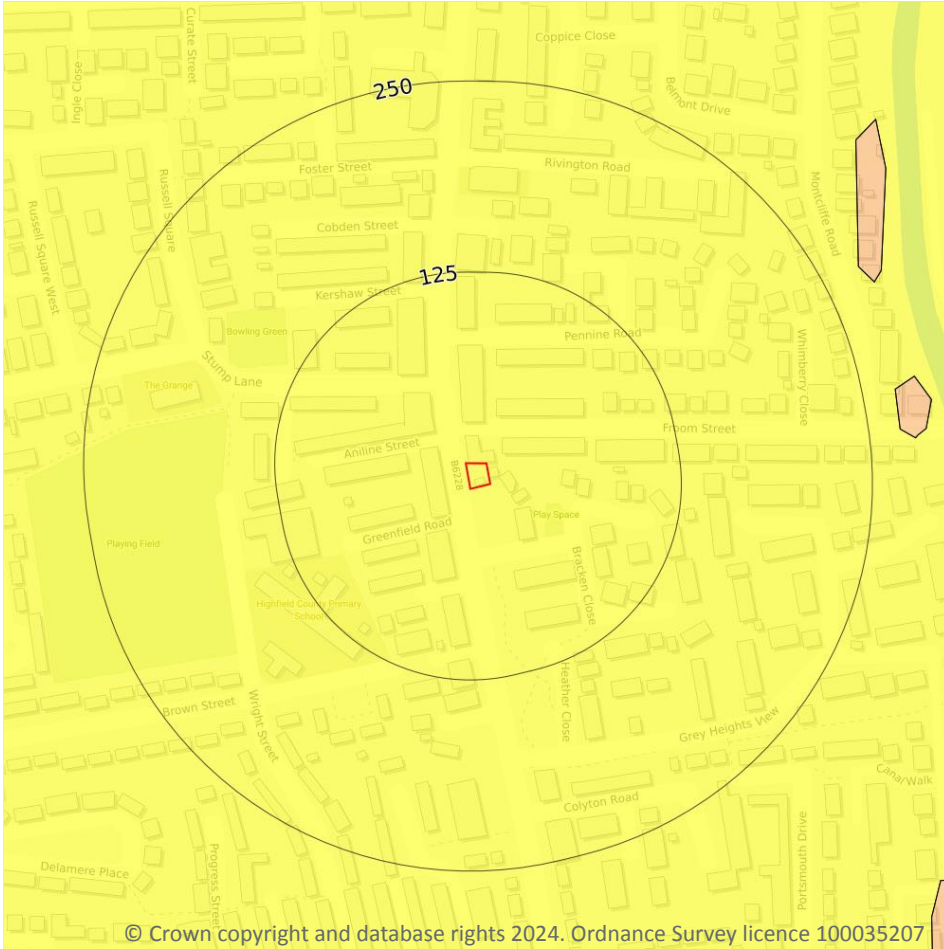
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 98 >](#)

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



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.

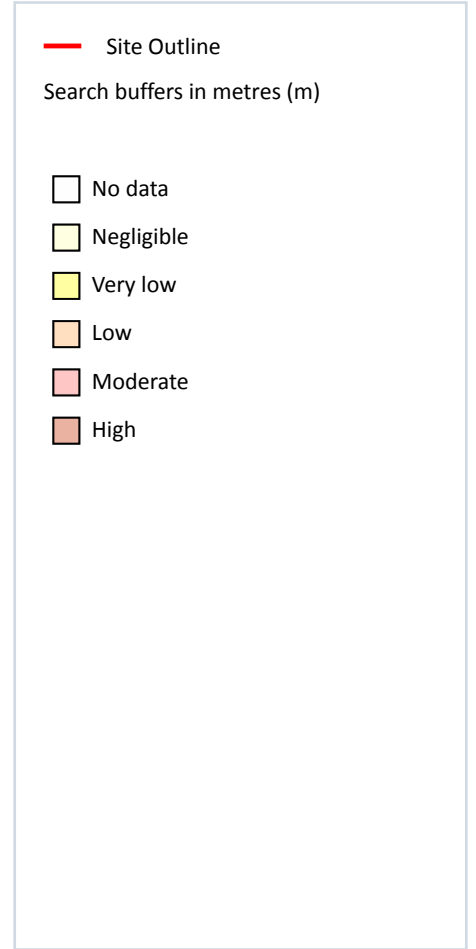
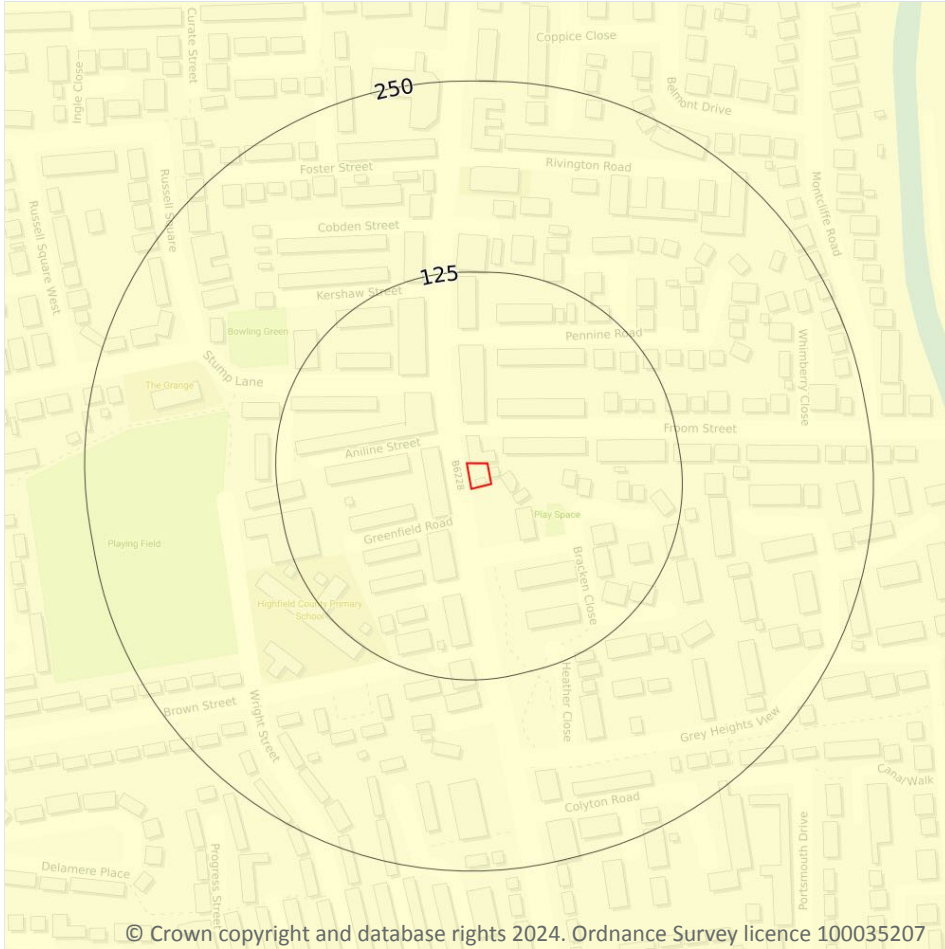
Features are displayed on the Natural ground subsidence - Landslides map on [page 99](#) >

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.

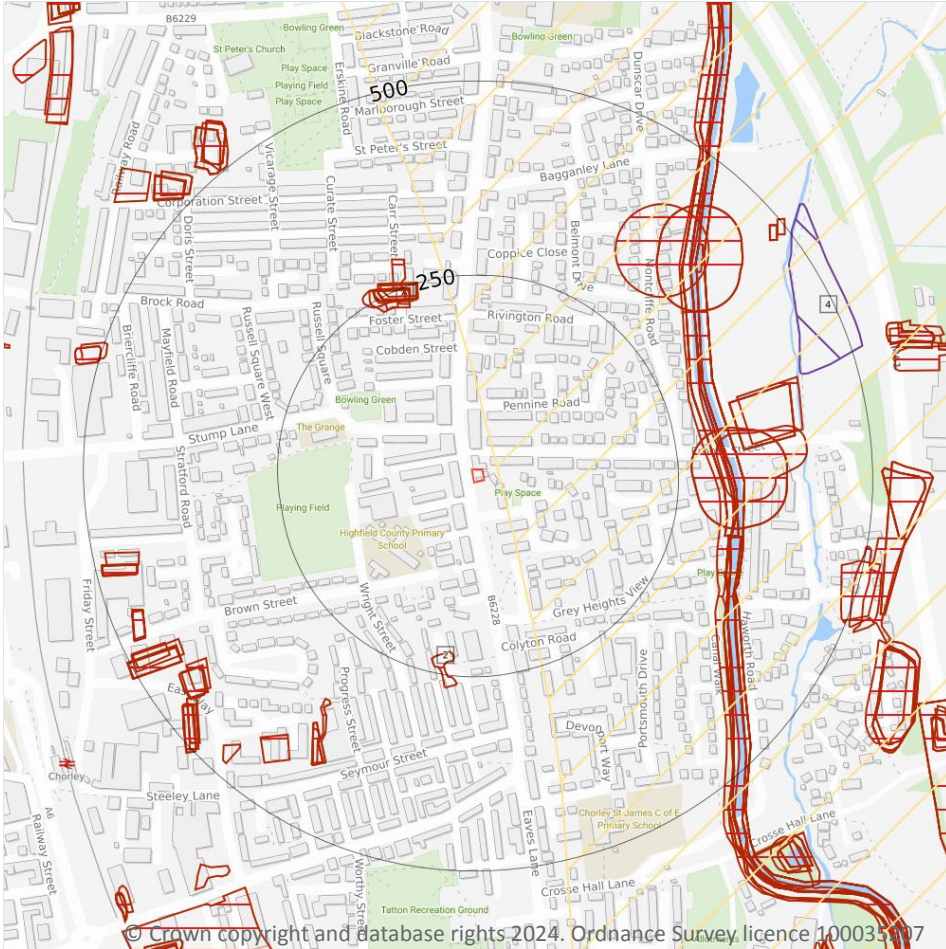
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 100](#) >

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



18.1 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.

18.2 Surface ground workings

Records within 250m

9

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.

Features are displayed on the Mining and ground workings map on [page 102](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
2	220m S	Ponds	1893	1:10560
A	223m N	Ponds	1893	1:10560
A	228m N	Reservoirs	1909	1:10560
A	230m N	Reservoir	1984	1:10000
A	231m N	Reservoirs	1938	1:10560
A	231m N	Reservoirs	1927	1:10560
A	231m N	Pond	1968	1:10560
A	233m NW	Pond	1846	1:10560
A	235m N	Reservoirs	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 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 is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

1

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.

Features are displayed on the Mining and ground workings map on [page 102 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
4	428m E	Land Between Froom St and Talbot Mill	Sand and gravel	Surface mineral working	Valid	1/7/68

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

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 and ground workings map on [page 102 >](#)

ID	Location	Name	Commodity	Class	Likelihood
1	19m NE	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	789m E	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.



18.7 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithes maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.13 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.

18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 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 Ground cavities and sinkholes

19.1 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.

19.2 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.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

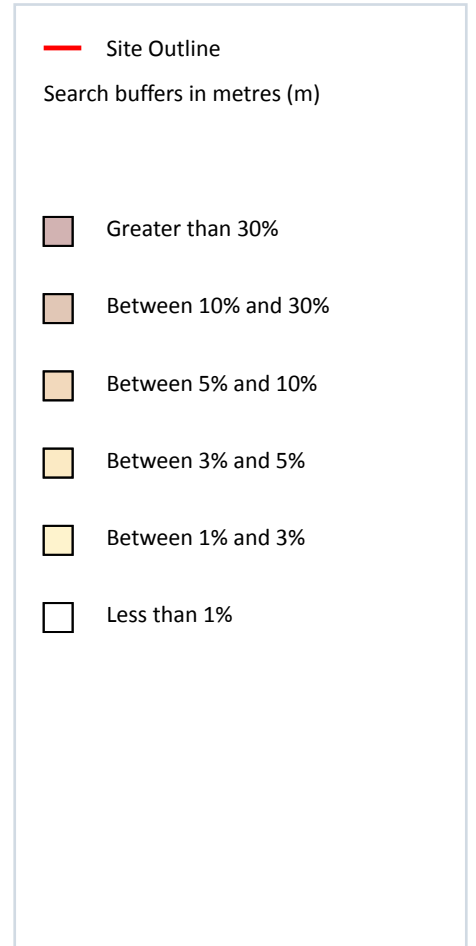
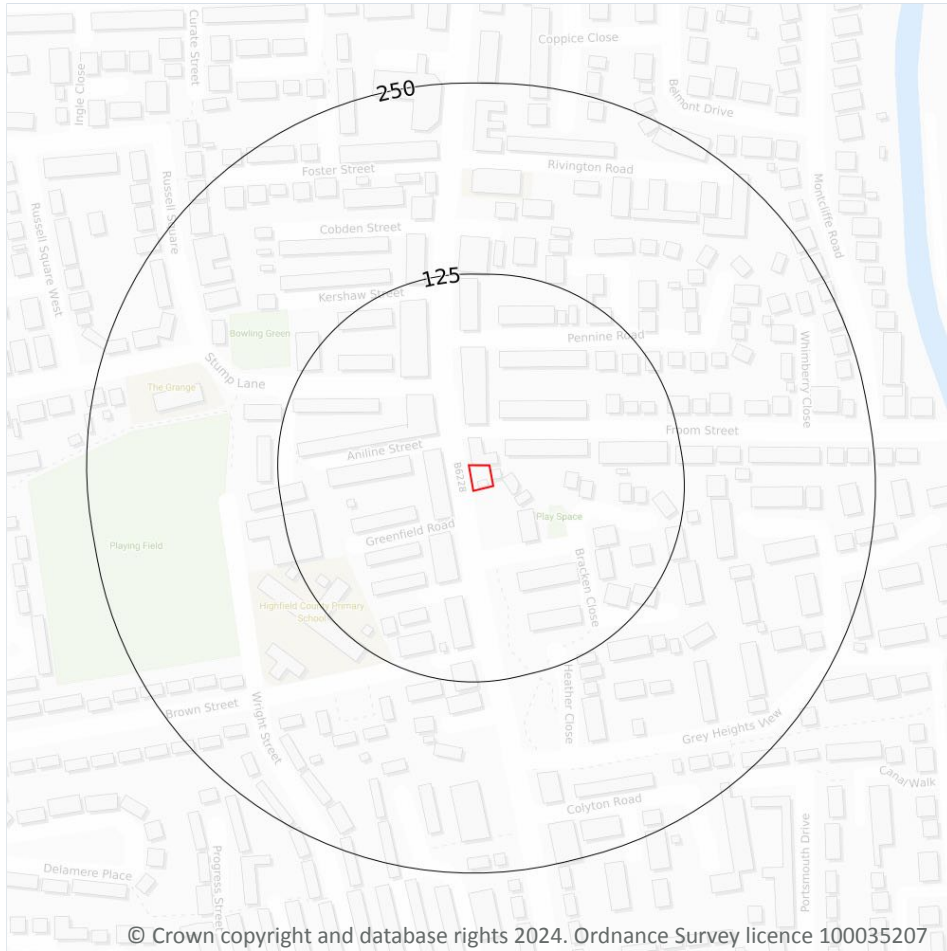
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 110 >](#)

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



This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

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 km². 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 km²; 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
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
19m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 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 km²).

This data is sourced from the British Geological Survey.

21.3 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 km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 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.

22.2 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.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 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.

22.5 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.

22.6 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.

22.7 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.

22.8 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.

22.9 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.

22.10 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> ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



APPENDIX C

SITE PHOTOS



General view to north east from Eaves Lane looking at site



General view to east of northern site boundary



General view to south east of existing electrical sub-station



General view to north along eastern site boundary



General view to south along Eaves Lane from site