



SOLUTIONS LIMITED

**PHASE I DESKTOP STUDY AND
PRELIMINARY RISK ASSESSMENT
REPORT**

**AT
121A ACRE STREET, HUDDERSFIELD
FOR
PENNY FALLS LTD**

Report Reference: 4075-23 PI

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LIST OF ACRONYMS

Acronym	Meaning
BGS	British Geological Survey
BH	Borehole
CDM	Construction Design and Management
CL:AIRE	Contaminated Land: Applications In Real Environments
CLR	Contaminated Land Report
COSHH	Control Of Substances Hazardous to Health
CSM	Conceptual Site Model
DCP	Dynamic Cone Penetrometer
DEFRA	Department for Environment Foods and Rural Affairs
DoE	Department of Environment
DP	Dynamic Probe
DWS	Drinking Water Standard
EA	Environment Agency
EQS	Environmental Quality Standard
GAC	Generic Acceptance Criteria
HA	Hand Auger
HP	Hand Pit
LPA	Local Planning Authority
LQM	Land Quality Management
mbgl	Metres Below Ground Level
MP	Mackintosh Probe
NGR	National Grid Reference
NPPF	National Planning Policy Framework
OS	Ordnance Survey
SGV	Soil Guideline Value
SPOSH	Significant Possibility of Significant Harm
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
SSV	Soil Screening Value
TP	Trial Pit
TT	Trial Trench
WS	Windowless Sample / Window Sample
WSV	Water Screening Value

1. INTRODUCTION

1.1 BACKGROUND AND INSTRUCTION

GeoEnviro Solutions Limited (GES) was instructed by Cadvis 3D, on behalf of Penny Falls Ltd (the Client) to produce a Phase I: Desktop Study and Preliminary Risk Assessment Report for the site located at 121A Acre Street, Lindley, Huddersfield, HD3 3EJ.

A site location plan is presented as GES Drawing No. 4075-23/01 in **Appendix 1**.

This report is written in accordance with the guidance set out in Land Contamination Risk Management (LCRM), Guiding Principles for Land Contamination (GPLC) 1 – 3, and the National Planning Policy Framework (NPPF).

1.2 PROPOSED DEVELOPMENT

It is currently proposed to demolish the existing two storey warehouse and construct a new two-storey building containing two residential flats, with an associated area of hardstanding and small area of soft landscaping.

A proposed development plan as provided to GES, drawn by Cadvis 3D, referenced 2257 A(10)-01 and dated March 2023 is provided within **Appendix 1**.

This proposed development plan has been utilized in the preparation of this risk assessment, based upon a 'Residential without Homegrown Produce' end-use. If an alternative development is subsequently proposed this assessment may need revising and should not be relied upon in its present outcome.

1.3 OBJECTIVES

The objectives of this Phase I report are to:

- To gain an understanding of any concerns of the regulatory authorities (Local Authority Planning, Building Control and Environmental Health departments and the Environment Agency) regarding local land filling, flooding, mining, quarrying and other concerns.
- Establish the environmental setting, including sensitivity in relation to human health, surface water, groundwater, and ecological receptors.
- Review historical and recent uses to assess the potential for contamination to be present from past and current land-use.
- Assess by qualitative means the potential nature and extent of contamination from those uses and the environmental risk and liabilities which may affect the site redevelopment.
- Identify the prevalent source-pathway-receptor linkages present on site by means of a Tier 1 contamination risk assessment which incorporates the formulation of a Conceptual Site Model.

1.4 INFORMATION SOURCES

During the production of this report the following primary information sources have been utilised:

- Enviro + Geo Insight data obtained from Groundsure (4C Group Ltd).

- Historical Ordnance Survey mapping at scales ranging from 1:1,250 to 1:10,560, obtained from Groundsure.
- BGS Open Geoscience online geological mapping tool.
- OS Open Data online mapping tool.
- Coal Authority Online interactive map.
- Consultants Coal Mining Report.

1.5 PREVIOUS INVESTIGATIONS

GES have previously carried out a smaller scale desktop survey, referenced GES 1241-21 and dated February 2021.

The report identified low to low/moderate risk associated potential onsite and offsite sources of contamination.

However, as the proposed development comprised the renovation of the on site building, it was not considered that a ground investigation would be required, though a watching brief was recommended.

2. SITE LOCATION AND DESCRIPTION

2.1 SITE LOCATION

The site is located at 121A Acre Street, Lindley, Huddersfield, HD3 3EJ, at approximate National Grid Reference (NGR): 411933: 417878 (centre of the site).

2.2 SITE DESCRIPTION

A site walkover was carried out on the 29th August 2023 and is summarised below.

The site comprises an irregular shaped piece of land with an approximate area of 0.04 Ha, which gently slopes from west to east, towards Acre Street, from which the site is accessed.

A cobble track runs along the south of the site to a stone-built building, with a sheet metal roof in the west of the site.

The onsite building has a concrete floor throughout and steel mezzanine in the north of the building.

An above ground septic tank, which anecdotal information suggested had been disconnected, was present in the courtyard to the immediate northeast of the building.

No evidence of fuel tanks or fuel / oil staining were noted during the site walkover.

An approximate distribution of the surface covering is given below in Table 2.1.

Table 2.1: Site Surface Covering

Type of Surface Cover	Distribution (%)
Soft Ground (grassed and landscaped areas)	0
Hardstanding	30
Roadways	0
Buildings	70
Water (ponds, streams)	0

The site is bounded by a residential property and Acre Street to the east, a care home to the south and residential properties to the north and west.

A selection of photographs from the site walkover are presented in [Appendix 2](#).

Surrounding Area

The current surrounding land use generally comprises residential properties.

The topography of the surrounding area slopes gently towards the east.

3. ENVIRONMENTAL AND GEOLOGICAL SETTING

Information on the environmental and geological setting of the site is presented in a Groundsure Enviro + Geo Insight Report prepared for the site; a copy of this report is presented in **Appendix 3**.

3.1 SITE GEOLOGY

The site geology has been assessed by reference to information from British Geological Survey (BGS) mapping summarised in the Groundsure Enviro + Geo Insight data. Information from these sources referenced in this report has been predominantly limited to that identified within 50 m of the site (underlying geology) or 250 m of the site (structural features, borehole records), in order to focus on the information directly relevant to the site. Information from outside these radii will be referenced when deemed relevant.

Artificial / Made Ground

There are no records of artificial deposits underlying or within 250 m of the site.

Superficial Deposits

There are no records of superficial deposits underlying or within 250m of the site.

Bedrock Geology

The site is underlain by bedrock of the Soft Bed Flags, a named sandstone within the Pennine Lower Coal Measures Formation, generally described as *'fine-grained, thinly-bedded and cross-bedded to flaggy sandstone interbedded with mudstone'* (BGS Lexicon Description).

The BGS Memoir notes that *'around Huddersfield they (the Soft Bed Flags) are 150' (45.7 m) thick'*.

Landslips

There are no records within 250 m of the site.

Linear Features

There are no records beneath or within 250 m of the site.

The generalised vertical section (GVS) on the BGS 1:10,000 (SE11NW, 2000) map indicates that the Pot Clay Coal seam, which is noted to be "thin", is present beneath the Soft Bed Flags, which the BGS Memoir notes *'at Salendine Nook on Lindley Moor, the fireclay underlying the Pot Clay Coal has been worked for many years'* and notes *'hereabouts the coal has a thickness of about 6" (0.15 m)'*.

Natural Ground Subsidence

The following hazard ratings applicable to the site and land within 50 m are presented in the Enviro + Geo Insight Report:

- | | |
|--|-------------|
| • Shrink / swell clays: | Negligible. |
| • Running sands: | Negligible. |
| • Compressible deposits: | Negligible. |
| • Collapsible deposits: | Very low. |
| • Landslides: | Very low. |
| • Ground dissolution of soluble rocks: | Negligible. |

3.2 BOREHOLE RECORDS

There are no BGS boreholes recorded within 50 m of the site.

Historical BGS borehole SE11NW798 is located approximately 150 m northwest of the site which recorded gannister, rag rock and shale from ground level to 46' (14.02 m) below ground level, where a 6" (0.15 m) thick coal seam was encountered. The borehole was terminated at 469' 8" (143.15 m) and did not record any additional coal seams.

3.3 HYDROGEOLOGY

These records are derived by Groundsure from Environment Agency and British Geological Survey data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report. Information from these sources referenced in this report have been predominantly limited to those identified within 250 m of the site (or 1000 m of the site for abstractions), in order to focus on the information directly relevant to the site. Information from outside these radii will be referenced when deemed relevant.

The Environment Agency aquifer designations used within the following sections are summarised in Table 3.1, below.

Table 3.1: Aquifer Designations

Definition	Description
Principal Aquifer	Layers with high intergranular and/or secondary permeability capable of supporting water supplies at strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as Major Aquifers.
Secondary (A) Aquifer	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as Minor Aquifers.
Secondary (B) Aquifer	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water bearing parts of former non-Aquifers.
Secondary Undifferentiated Aquifer	Layers that cannot be attributed to a category A or B rock type. These layers could have previously been described as a minor or a non-aquifer due to their variable characteristics.
Unproductive strata	Rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

Aquifer within Bedrock Geology

The bedrock deposits underlying the site are classified as a Secondary A Aquifer.

The site is recorded to be located within the Aire & Calder Carb Limestone / Millstone Grit / Coal Measures groundwater body, which was recorded to have a *poor* overall, *poor* chemical and *good* quantitative classification in 2019.

Permeability of Bedrock Deposits

The minimum and maximum permeability are recorded as being moderate and high respectively and the flow type is recorded as fracture.

Groundwater Vulnerability

The site is recorded to be located within an area where the EA considers the groundwater to have a high vulnerability to mobile pollutants, as summarised in Table 3.2 overleaf.

Table 3.2: Groundwater Vulnerability Definitions

Definition	Description
High Vulnerability	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 Vulnerability	Intermediate between high and low vulnerability.
Low Vulnerability	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.

Groundwater Abstraction Licences

There are three historical licensed ground water abstractions within 500 m of the site, the closest of which is located 217 m southwest of the site, for general use relating to secondary category (medium loss) from a borehole; the record expiry date was 31st December 2001.

Potable Water Abstraction Licences

There are no potable abstractions within 500 m of the site.

Source Protection Zones

There are no Source Protection Zones (SPZ) within 500 m of the site.

3.4 HYDROLOGY

These records are derived by Groundsure from Environment Agency and British Geological Survey data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report. Information from these sources referenced in this report have been predominantly limited to that identified within 250 m of the site (aquifers, surface water) or 1000 m of the site (abstractions), in order to focus on the information directly relevant to the site. Information from outside these radii will be referenced when deemed relevant.

Ordnance Survey Water Network

There are no entries in the Ordnance Survey Water Network register within 250 m of the site.

Surface Water Features

A single surface water feature, Lindley Pond, is located approximately 205 m west of the site.

Water Framework Directive Surface Water Bodies and Catchments

The site is recorded to be located within the Colne from River Holme to River Calder catchment.

Surface Water Abstraction Licences

There are no licensed surface water abstractions within 250 m of site.

3.5 ENVIRONMENTALLY SENSITIVE AREAS

These records are derived by Groundsure from Environment Agency, Natural England, Historic England, English Heritage, Forestry Commission and UK Government data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report.

Information from these sources referenced in this report have been predominantly limited to that identified within 500 m of the site (environmental designations) or 250 m of the site (habitat, visual and cultural designations), in order to focus on the information directly relevant to the site. Information from outside these radii will be referenced when deemed relevant.

Environmental and Habitat Designations

There is one record of Open Mosaic Habitat within 250 m of the site, located 120 m south of the site.

There are no other environmental or habitat designations within 250 m of the site.

Visual and Cultural Designations

There are ten listed buildings recorded within 250 m of the site, the closest of which is located 40 m southeast of the site, relating to a Grade II listed building.

A Conservation Area has been identified within 250 m of the site, relating to the Edgerton conservation area, located 134 m to the east.

4. PAST LAND USE AND POTENTIAL CONTAMINANT SOURCES

Information on past land use and potential contaminant sources is presented in a Groundsure Enviro + Geo Insight Report prepared for the site; a copy of this report is reproduced in [Appendix 3](#).

4.1 LAND USE RECORDS

These records are derived by Groundsure from historical mapping and each record corresponds to a particular map revision date. Thus, several records may refer to the same feature where it is present over time. Groundsure has in some cases grouped such records in the Enviro + Geo Insight report. Differences in distances quoted from the study site may be due to expansion of the feature over time or geolocation errors.

Information from these sources referenced in this report have been predominantly limited to that identified within 250 m of the site, in order to focus on the information directly relevant to the site. Information from outside this radius will be referenced when deemed relevant.

Historical Industrial Land Uses

There is one recorded historical industrial land use on site, with five records within 100 m of the site and a further 12 within 250 m of the site. These potentially contaminative land uses comprise various mills and works, a pond, unspecified tank and an iron works, and are summarised in table 4.1 Below.

Table 4.1: Historical Land Uses

Distance (m)	Direction	Land Use	Dates Recorded
On Site	-	Woolen Mills	1890
59 – 70	Southwest	Unspecified Mills	1905, 1938, 1948, 1956, 1966 - 1985
103 - 104	West	Unspecified Tank	1948, 1985
105	Southeast	Unspecified Mills/Works	1948, 1956, 1966, 1975-1985
109	South	Unspecified Mill	1938
131	Southeast	Cards Mills	1890
136	West	Unspecified Tank	1966
142	Southeast	Unspecified Mills	1905
212	Northwest	Iron Works	1890
214	South	Mill Ponds	1890
247	Southwest	Unspecified Works	1975-1985

There are likely to be duplicates of the same entry within these records.

Historical Tanks

There are eight records of historical tanks within 250 m of the site. The closest two are unspecified tanks located 94 and 106 m to the southwest of the site, relating to tanks and unspecified tanks respectively.

There are likely to be duplicates of the same entry within these records.

Historical Energy Features

There are six records of historical energy features within 250 m of the site, the closest of which is located 120 m of the site, dated from 1982 to 1996, as such this post-dates the 1981 ban on Polychlorinated Biphenyls contamination (PCB's).

As such, the site is considered to be at a very low risk from PCB's.

Historical Petrol Stations

There are no records of historical petrol stations within 250 m of the site.

Historical Garages

There are no records of historical garages within 250 m of the site.

Historical Military Land

There are no records of historical military land within 250 m of the site.

Current or Recent Industrial Land Uses

There are nine records of current or recent industrial land usage within 250 m of the site, the closest of which is located 1 m northeast of the site, though has the same address as the site, relating to a hobby, sports and pastime products. The next closest record is located 103 m west of the site, relating to a tank.

Current or Recent Petrol Stations

There are no records of current or recent petrol stations within 500 m of the site.

Electricity Cables

There are no records of high voltage (HV) underground electricity cables within 500 m of the site.

Gas and / or Oil Pipelines

There are no records of medium- or high-pressure underground gas or oil supply pipelines within 500 m of the site.

Railway Infrastructure

There are no records of railway infrastructure within 500 m of the site.

4.2 ENVIRONMENTAL PERMITS, INCIDENTS AND REGISTERS

These records are derived by Groundsure from local authority, Health and Safety Executive and Environment Agency data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report. Information from these sources referenced in this report have been predominantly limited to that identified within 250 m of the site, in order to focus on the information directly relevant to the site. Information from outside this radius will be referenced when deemed relevant.

Sites Determined as Contaminated Land

There are no records of sites determined as contaminated land under Part 2A of the Environmental Protection Act 1990 within 250 m of the site.

Control of Major Accident Hazards (COMAH)

There are no records within 250 m of the site.

Regulated Explosive Sites

There are no records within 250 m of the site.

Planning Hazardous Substances Consents

There are no records within 250 m of the site.

Records of Historic IPC Licensed Activities

There are no records within 250 m of the site.

Records of Part A (1) Licensed Activities

There are no records within 250 m of the site.

Records of Part A (2)/B Licensed Activities and Pollutant Release

There is one record within 250 m of the site, located 166 m to the south. The record is attributed to Joseph Sykes Brothers Ltd, located at Acre Street, Lindley and is registered for a historical part B permit for Hot Dip Galvanising Processes.

Records of Radioactive Substance Authorisations

There are no records within 250 m of the site.

Licensed Discharges to Controlled Waters

There are no records within 250 m of the site.

Pollutant release to Surface Waters (Red List)

There are no records within 250 m of the site.

Pollutant Release to Public Sewer

There are no records within 250 m of the site.

List 1 and List 2 Dangerous Substances

There is a single record within 250 m of the site, noted as not active, registered to Joseph Sykes Brothers Ltd and authorised for chromium, copper, lead and zinc.

Substantiated Pollution Incidents

There are no records within 250 m of the site.

Pollution Inventory Substances

There are no records within 250 m of the site.

Pollution Inventory Waste transfers

There are no records within 250 m of the site.

Pollution Inventory Radioactive Waste

There are no records within 250 m of the site.

4.3 WASTE AND LANDFILL

These records are derived by Groundsure from Environment Agency, British Geological Survey, Ordnance Survey (interpreted by Groundsure) and local authority data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report.

Information from these sources referenced in this report have been predominantly limited to that identified within 250 m of the site (landfills) or 250 m of the site (non-landfill waste operations), in order to focus on the information directly relevant to the site. Information from outside these radii will be referenced when deemed relevant.

Active or Recent Landfill

There are no records within 250 m of the site.

Historic Landfill

There are no records within 250 m of the site.

Non-Landfill Waste Records

There is one licenced waste site record within 250 m of the site, located 217 m southwest of the site. The record is attributed to Joseph Sykes at Acre Mills, Acre Street, Lindley, relating to in house storage facility; the license was surrendered in June 2004.

Waste exemptions are made available for certain specified activities considered to pose a low risk to the environment and allowable waste types and quantities are limited. There is one waste exemption record within 250 m of site, located 244 m to the south of the site for the sorting and de-naturing of controlled drugs for disposal.

4.4 MINING, GROUND WORKINGS AND NATURAL CAVITIES

These records are derived by from British Geological Survey, Ordnance Survey (interpreted by Groundsure), Coal Authority, Peter Brett Associates, Johnson Poole and Bloomer, Cheshire Brine Subsidence Compensation Board, British Gypsum, Mining Searches UK, Kaolin and Ball Clay Association and local authority data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report.

Information from these sources referenced in this report have been predominantly limited to that identified within 250 m of the site, in order to focus on the information directly relevant to the site. Information from outside these radii will be referenced when deemed relevant.

Natural Cavities

There are no records within 250 m of the site.

Mining Cavities

There are no records within 250 m of the site.

BritPits Data (Surface and Underground Mineral Workings)

There are no records within 250 m of the site.

Historical Mineral Planning Areas

There are no records within 250 m of the site.

Surface Ground Workings

There are 17 records of surface ground workings within 250 m of the site, all recorded as ponds or unnamed bodies of water, the closest of which is located 164 m southwest of the site relating to a pond.

There are duplicate entries within the records.

Underground Workings

There are no records within 250 m of the site.

4.5 COAL MINING RISK ASSESSMENT

A Coal Authority Consultants Report (CACR) has been commissioned from the Coal Authority. This report is provided in [Appendix 4](#) and summarized below.

Underground Coal Mining

The CACR does not record the presence of past mining beneath the site.

Probable Unrecorded Shallow Workings

The CACR does not record the site to be in an area of probably unrecorded shallow workings.

Development High Risk Area

Review of the CA online view indicates the site is not located within a development high risk area.

Surface Mining

The CACR records that there are no opencast mines recorded within 500 m of the site.

Mine Entries (shafts and adits)

The CACR records that there are no mine entries within 100 m of the site.

Coal Mining Geology

The CA do not record any faults, fissures or breaklines, though the BGS record a fault to be present in the south of the site.

Mine Gas Emissions

The CACR recorded that no mine gas is recorded within 500 m of the enquiry boundary.

Coal Mining Subsidence

The CA has not received a damage notice or claim for the subject property of any property within 50 m of the enquiry boundary since 31st October 1994.

Assessment of Site-Specific Coal Mining Risks

Table 4.2 below summarises the potential risks associated with coal mining legacy for the proposed development site, identified from the preceding information, as well as information from Section 3.1.

Table 4.2: Coal Mining Risk Assessment

Coal Mining Issue	Present?		Risk Assessment
	Yes	No	
Underground coal mining (recorded at shallow depths)		X	The CACR does not record any underground mining beneath the site. Low risk
Underground coal mining (probable at shallow depths)		X	The CACR does not record the site to be in an area of probably shallow coal mining. Low risk
Surface Mining (opencast workings)		X	No opencast workings are recorded within 500 m of the site. Low risk
Mine Entries (shafts and adits)		X	No mine entry records within 100m of the site boundary. Low risk
Coal mining geology		X	The site is recorded to be underlain by the Soft Bed Flags. A historical BGS borehole recorded 0.15 m of coal at 14 mbgl, as such, sufficient competent strata are considered to be present to mitigate the risk from any unrecorded mining. Low risk

Coal Mining Issue	Present?		Risk Assessment
	Yes	No	
Mine Gas Emissions		X	No record of past mine gas emissions/problems in vicinity of site. Low risk.
Recorded coal mining surface hazard		X	No hazard identified on site. Low risk.

4.6 RADON

These records are derived by Groundsure from British Geological Survey and Public Health England data. Details of the source and coverage of specific records are provided in the Enviro + Geo Insight Report. Information from these sources referenced in this report have been predominantly limited to that identified on or within 50 m of the site.

The study site is not located within a Radon Affected Area, as less than 1% of properties are above the Radon Action Level. No radon protection measures are required.

4.7 BACKGROUND SOIL CHEMISTRY

Values estimated by BGS for background concentrations of six potentially harmful elements are provided as follows:

- Arsenic: 25 - 35 mg/kg.
- Lead: 100 - 200 mg/kg.
- Bioaccessible lead: 60-120 mg/kg.
- Cadmium: 1.8 mg/kg.
- Chromium: 60-90 mg/kg.
- Nickel: 15-30 mg/kg.

These values are not considered to be elevated with respect to guideline values for a 'Residential without Homegrown Produce' end-use.

5. HISTORICAL MAPPING STUDY

5.1 HISTORICAL MAPPING

The object of this search was to report on the evidence of site history and redevelopment of the site and its environs from available County Series and Ordnance Survey Maps at scales ranging from 1:1,250 to 1:10,560 dating from 1854 to the present day, and Getmapping PLC aerial photography dating from the 1999 to the recent past, as provided by Groundsure.

Information in the historical mapping study has been predominantly limited to that identified on the site or within 100m of the site, in order to focus on the information directly relevant to the site. Information from outside this radius will be referenced when deemed relevant.

Each map or photographs only represents a “snap-shot” of the site and its environs at the date of the survey. Changes that had occurred at other times may not have been recorded on the maps and could represent an unidentified hazard to the site.

The information reported might not represent all pertinent information that could be obtained. The interpretation of the maps and/or other data commented on in this report is subjective.

The Historical Ordnance Survey Maps were obtained from Groundsure and are available for review within **Appendix 5** and are summarised in Table 5.1 below.

Table 5.1: Historical Mapping Review

Date	Scale	On-Site	Offsite
1854	1:10,560	The site comprises undeveloped land, bounded to the east by a road.	The surrounding area generally comprises undeveloped land. Plover Mill (woollen) is located approximately 120 m southwest of the site.
1893	1:2,500	The offsite building, located to the immediate northeast of the site is shown to extend into the site.	A building labelled as Park House has been constructed on the southern boundary of the site. An unnamed building has been constructed to the immediate northeast of the site. Plover Mill has extended to the northeast and is now located from approximately 80 m southwest of the site.
1907	1:2,500	No significant changes noted from previous map.	No significant changes noted from previous map.
1918	1:2,500	Two small buildings have been constructed in the southwest of the site.	Residential properties have been constructed to the immediate north of the site.
1933	1:2,500	An additional building has been built in the southwest of the site.	Residential properties have been constructed to the immediate west of the site.
1948	1:10,560	No significant changes noted from previous map.	No significant changes noted from previous map.
1956	1:10,560	No significant changes noted from previous map.	No significant changes noted from previous map.
1960 - 62	1:2,500	No significant changes noted from previous map.	No significant changes noted from previous map.
1975	1:10,000	No significant changes noted from previous map.	No significant changes noted from previous map.

Date	Scale	On-Site	Offsite
1985	1:10,000	No significant changes noted from previous map.	No significant changes noted from previous map.
2003	1:2,500	The onsite in the west of the site now appear to be combined into one structure.	Park House has been demolished and a large structure has been constructed in its place.
2010	1:10,000	No significant changes to the site layout.	No significant changes to the surrounding areas.
2023	1:10,000	No significant changes to the site layout.	No significant changes to the surrounding areas.

5.2 AERIAL PHOTOGRAPHY

1999 Aerial Photo

The 1999 aerial photo shows a warehouse in the west of the site, with the centre and east covered by hardstanding. The surrounding area is developed with a mixture of commercial and residential properties.

2000 Aerial Photo

The 2000 aerial photo shows no significant changes from the previous aerial photograph.

2012 Aerial Photo

The 2012 aerial photo shows no significant on site changes from the previous aerial photograph. Offsite, mills around 70 m southwest of the site have been demolished and replaced with residential properties.

2018 Aerial Photo

The 2018 aerial photograph shows no significant changes from the previous aerial photograph.

Recent Aerial Photograph:

Recent aerial photography shows no significant changes from the previous aerial photograph.

The aerial photographs are included in the Groundsure Enviro + Geo Insight Report and are available for review within [Appendix 3](#).

5.3 SUMMARY

Review of available historical ordinance surveys maps indicate the site comprised undeveloped land until at least 1893, when a building was constructed in the northwest of the site, with three additional buildings constructed in the west of the site between 1918 and 1933.

Though not detailed on the mapping due to the scale of available maps, it is anticipated that at some time between 1961 and 1999 works were undertaken to combine the on site buildings into the building present in the west of the site in the 1999 aerial photograph.

A review of the planning record does not record any construction activities on-site.

6. FRAMEWORK FOR ASSESSMENT OF CONTAMINATION

Environmental risks are assessed within the risk management framework established in Part IIA of the Environmental Protection Act (EPA) 1990 introduced by Section 57 of the Environment Act 1995 which provides a statutory definition of contaminated land. To fall within this definition it is necessary that, as a result of the condition of the land, substances may be present on or under the land such that:

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

or

(b) Pollution of controlled water is being, or is likely to be, caused.

Risk from contamination is assessed by consideration of possible linkages between contaminant sources and potential receptors which could be harmed or polluted.

The key aspect of the framework is the development of a Conceptual Site Model (CSM) which illustrates the spatial interaction between the potential sources and receptors on site.

The information presented in this report was collated and evaluated to develop an initial CSM to assess ground contamination issues at the site.

For a risk of pollution or environmental harm to occur as a result of ground contamination, **all** of the following elements must be present:

- A source, i.e., a substance that is capable of causing pollution or harm.
- A receptor, i.e., something which could be adversely affected by the contaminant.
- A pathway, i.e., a route by which the contaminant can reach the receptor.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

Potential sources, pathways and receptors are identified in the sections below and the risks associated with possible pollutant linkages outlined.

6.1 SOURCES

On-Site Sources

No possible on-site sources have been identified from the historical study and the Enviro + Geo Insight data.

Offsite Sources

The following off site sources have been identified from the historical study and the Enviro + Geo Insight data:

- Historic Made Ground.

There are further entries present, but these are considered far enough from the site to pose no risk.

The following contaminants are potentially associated with the off-site sources.

- Heavy Metals and Metalloids

- Inorganics
- PAH
- TPH

6.2 PATHWAYS

For contaminants to reach potential receptors, there must be a viable **pathway** for the contaminant. Potential pathways that may affect the migration of contaminants are listed in Table 6.1, below.

Table 6.1: Pathways

Pathway	Medium	Properties
Direct Contact	Dust, solid and liquid phase	There may be direct contact with potentially impacted soil and Made Ground across the site. There is a possibility of dust fumes being produced during earthworks in the construction phase. Dermal contact and ingestion of potentially contaminated soils during construction.
Leaching through Made Ground	Unsaturated flow	Potential for leaching and migration of potential contaminants along preferential flow paths in the ground.
Foundations and Underground Infrastructure and Obstructions	Preferential flow	Contaminants will follow the path of least resistance which can be gaps around foundations, services, and floor construction
Migration of Ground Gas and Radon	Gaseous flow	Infilled land material is likely to be variable in composition.

6.3 RECEPTORS

The site-specific **receptors** that could be potentially affected by the contamination hazards identified during this preliminary appraisal are summarised in Table 6.2, below:

Table 6.2: Receptors

Category	Receptor	Properties
Humans	End users (such as residents and visitors)	Potential contact with contaminated soils is likely limited given the limited area of soft landscaping proposed.
	Construction workers	Reworking of contaminant impacted materials in underlying soil during construction works can expose workers to contamination.
Property	Materials and site structures	Foundations and site services may be damaged by potentially aggressive compounds present in soils.
Controlled Waters	Underlying bedrock Aquifer	The site is recorded as having a Secondary (A) Aquifer within the bedrock underlying the site.
Plant (species and uptake) and Wildlife	Various	Attributes will be influenced by factors such as relative quality, scale, rarity and substitutability; however, it is understood that the site is proposed to be hard surfaced.

7. QUALITATIVE RISK ASSESSMENT

Potential pollutant linkages are identified using the source-pathway-receptor framework detailed above. An assessment of the potential significance of each linkage is then made by consideration of the likely magnitude and mobility of the source, the sensitivity of the receptor and nature of the migration/exposure pathways.

This qualitative risk assessment has been undertaken in accordance with Annex 4 of the National House Building Council/Environment Agency/Chartered Institute of Environmental Health R&D publication 66, Guidance for the Safe Development of Housing on Land Affected by Contamination (NHBC/EA/CIEH, 2008) which updates and supersedes CIRIA C552: Contaminated Land Risk Assessment, A Guide to Good Practice (Rudland et al., 2001).

A summary of the risk assessment protocols, and subsequent risk assessment matrix is provided in **Appendix 6**.

An assessment of the likelihood of the risk being realised and the magnitude of potential risk is presented below to give an estimation of the significance of each potential pollutant linkage identified. Where it is considered that there is no credible linkage, this is indicated in the table. In accordance with the R&D66 guidance, if there is no pollution linkage then there is no need to apply tests for probability and consequence.

The assessment is undertaken based on the current proposals for the site, at the time of issuing this report, which would be classed as a generic end land use of 'Residential without Homegrown Produce'. Any change in the development proposals for the site involving a change in end use class may result in a requirement for this assessment to be revised.

8. PRELIMINARY CONCEPTUAL SITE MODEL

Contaminant Source	Pathways	Receptor	Pollutant Linkage	Classification of Probability	Classification of Consequence	Level of Risk	Justification
On Site: Made Ground soils on site possibly containing elevated metals, other inorganics, or organics such as TPH and PAH.	Ingestion, dermal contact, inhalation of dusts / vapours	Future end users and site visitors	Considered inactive	-	-	Very Low ●	No potential sources of contamination identified on site. Limited soft landscaping is proposed as part of the development.
		Construction Workers	Considered inactive	-	-	Very Low ●	No potential sources of contamination identified on site.
	Leaching through soils and migration via groundwater or soil pore moisture	Controlled Waters	Considered potentially active	Low Likelihood	Minor	Very Low ●	The site is underlain by a Secondary A Aquifer. No historical tanks are recorded on-site. The site has historically been covered by hardstanding, which will have limited the vertical migration of any contamination.
	Permeation of water pipes	Construction materials, future end users and site visitors	Considered potentially active	Low Likelihood	Minor	Very Low ●	Hydrocarbons, especially aromatics are known to permeate plastic pipes. Provision of water supply pipes and connectors formed from proprietary "barrier pipe" materials (e.g., polyethylene-aluminium-polyethylene) may be required by the water supply company.
	Uptake	Plant and Wildlife	Considered inactive	-	-	Very Low ●	No potential sources of contamination identified on site. Limited soft landscaping is proposed as part of the development.
On Site: Asbestos at/near ground surface in Made Ground soils.	Inhalation of fibres in airborne dust	Future end users and site visitors	Considered inactive	-	-	Very Low ●	No potential sources of contamination identified on site. Limited soft landscaping is proposed as part of the development.
		Construction Workers	Considered inactive	-	-	Very Low ●	No potential sources of contamination identified on site. Limited soft landscaping is proposed as part of the development.

Contaminant Source	Pathways	Receptor	Pollutant Linkage	Classification of Probability	Classification of Consequence	Level of Risk	Justification
On Site: Ground Gases (CH ₄ , CO ₂ , CO, H ₂ S) from on-site Made Ground.	Gas migration and build up within buildings (explosion / asphyxiation risk)	Future end users and building structures.	Considered inactive	-	-	-	Made Ground is anticipated to be present across the site associated within historical development activities, though the thickness of the Made Ground is anticipated to be limited. The Made Ground is anticipated to comprise demolition materials, so will have a limited organic content.
Off Site: Historical land uses and activities, Made Ground possibly containing elevated metals, other inorganics, organics such as TPH and PAH.	Leaching through soils and migration via groundwater or soil pore moisture	Future end users and site visitors	Considered inactive	-	-	-	Made Ground is anticipated to be present adjacent to the site associated within historical development activities. Limited soft landscaping is proposed as part of the development. The site has historically been covered by hardstanding, which will have limited the vertical migration of any contamination.
	Ingestion, dermal contact, inhalation of dusts / vapours	Future end users and site visitors	Considered potentially active	Likely	Minor	Low ●	Made Ground is anticipated to be present adjacent to the site associated within historical development activities. Adjacent land has been developed over the last 20 years, which will limit the potential for contaminant migration.
Off Site: Ground Gases (CH ₄ , CO ₂ , CO, H ₂ S) from off-site historical landfilling activities.	Gas migration and build up within buildings (explosion / asphyxiation risk)	Future end users and building structures.	Considered inactive	-	-	-	Made Ground is anticipated to be present adjacent to the site associated within historical development activities, though the thickness of the Made Ground is anticipated to be limited. The Made Ground is anticipated to comprise demolition materials, so will have a limited organic content.

9. RECOMMENDATIONS

9.1 PROPOSED SITE INVESTIGATION

Based on the information obtained for the formation of this report, with the intended residential usage of the site it is recommended that a suitable combined Phase II environmental and geotechnical site investigation is carried out at the site to establish the presence of any contamination at the site, and to identify the ground conditions and provide details of their engineering properties in order to facilitate foundation design for the proposed development.

The intrusive investigation may reveal on-site sources of contamination that were not established by the Phase I Desk Study, thus requiring modification of the CSM.

The proposed scope of investigation is outlined below.

Scope of Proposed Investigation

A service search should be completed prior to any subsequent investigation to determine the service locations by lifting any manhole/drain covers; therefore, locations may be subject to change depending upon these results.

The site investigation should incorporate initially the drilling of window sampler boreholes in order to gain a suitable spread of the site and enable adequate analysis of the soil conditions. This will be completed to a maximum depth of 4-5 m below ground level (mbgl), or refusal, or where groundwater is encountered.

All positions should be logged, and samples removed in accordance with current protocol. In addition, groundwater conditions, if encountered, shall be logged and visual/olfactory observations noted.

We would recommend that the test locations be based on the findings contained with this report, to enable a broad coverage of the site.

Testing Regime

The testing regime has been devised in accordance with BS10175:2017 Guidelines for the Code of Practice for Contaminated Land and CLR Report No. 4 Sampling Strategies. The objective at this stage of the report is to attempt to identify the extent of any possible contamination that may exist at the site by using intrusive soil sampling and testing techniques.

Laboratory Analysis

An appropriate and consistent analytical suite of contaminants should be applied to any soil samples retrieved from the site.

Based on the findings contained within this report, we would recommend that a comprehensive range of testing should be undertaken to comprise of heavy metals, metalloids, inorganics, speciated Total Petroleum Hydrocarbons (TPH CWG Aromatic/aliphatic split) and speciated Polycyclic Aromatic Hydrocarbons (PAH) including the more carcinogenic benzo(a)pyrene (BaP) and naphthalene, soil organic matter (SOM) content, pH and sulphates and Asbestos.

It should be noted that not all samples retrieved from the proposed investigative works will be laboratory analysed and a UKAS and MCERTS accredited laboratory testing organisation should carry out all analysis.

Guidance

The results from the proposed site investigation shall be compared against standards, such as the revised LQM/CIEH S4UL criteria¹ where available.

If groundwater is encountered, samples should be collected and subjected for laboratory and the results should be compared against the Drinking Water Standards (DWS) or Environmental Quality Standards (EQS) for the United Kingdom (UK).

9.2 CONSULTEEES

It is highly recommended that this report be forwarded to the relevant Local Authority Environmental Health and Planning Departments to seek their comments and subsequent approval, otherwise further works may be required.

9.3 FLOOD RISK ASSESSMENT

This report does not replace a full hydrogeological survey and specialist studies may need to be undertaken to ascertain the risks posed from flooding. Further details on site flood information can be found within the appendices.

9.4 COAL MINING RISK ASSESSMENT

The CMRA undertaken as part of this report indicates that the site is at a very low risk from coal mining legacy.

9.5 INVASIVE PLANT SURVEY

The site reconnaissance visit undertaken herein, whilst reference to the possible presence of invasive plants such as Japanese Knotweed has not been made, this report should not be considered an Invasive Plant Survey and any concerns relating to the possible presence of such plants should be undertaken by an appropriately qualified surveyor.

Any concerns relating to the possible presence of invasive plants should be undertaken by an appropriately qualified surveyor.

9.6 ASBESTOS SURVEY

The site reconnaissance visit undertaken herein, whilst reference to the possible presence of Asbestos or Asbestos Containing Material (ACM) may be made, this report should not be considered an Asbestos Survey and any concerns relating to the possible presence of ACM should be undertaken by an appropriately qualified surveyor.

¹ Nathanail et al. (2015) The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, 2015. Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3495

10. RELIANCE AND LIMITATIONS

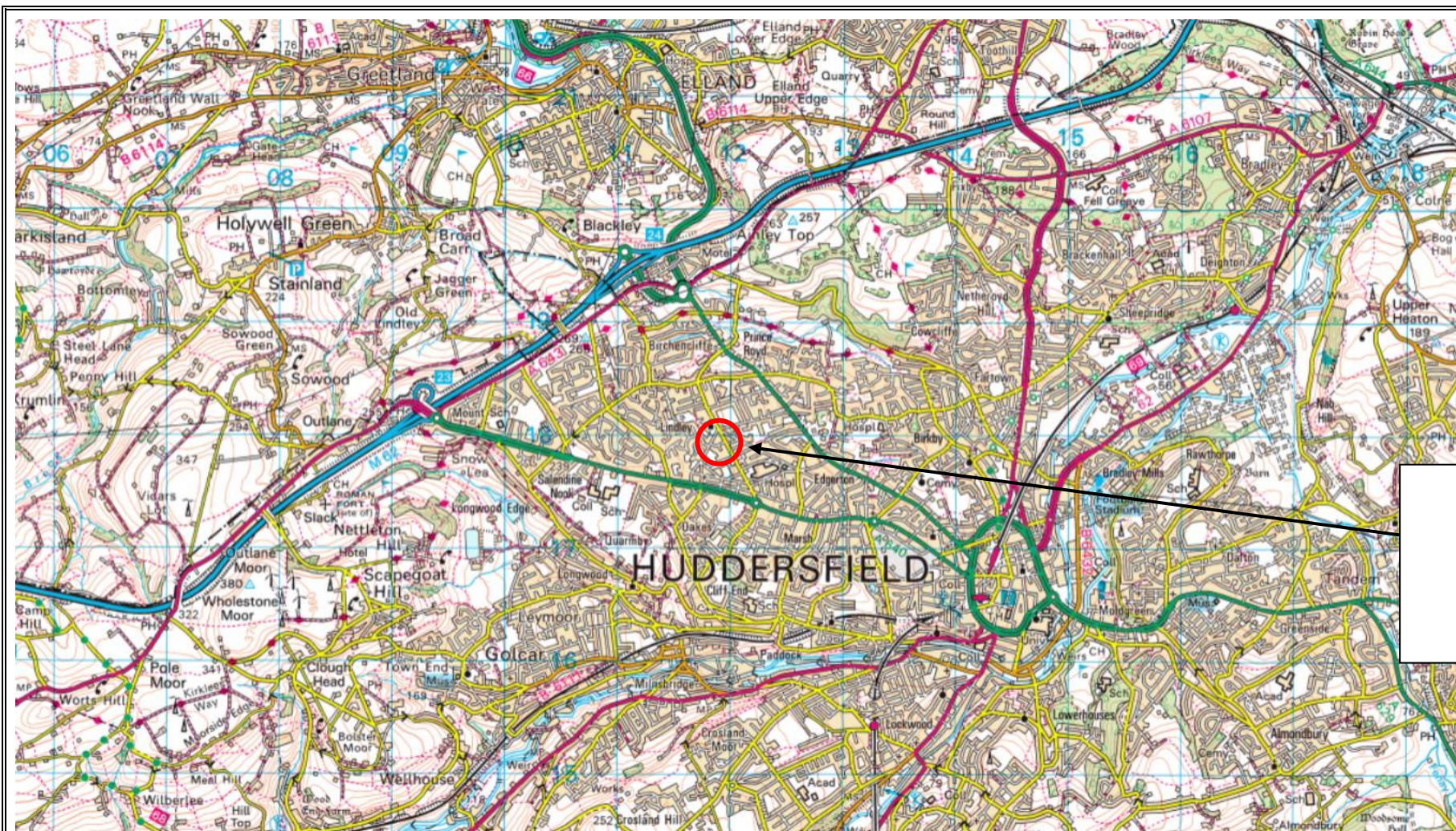
This report has been prepared by GES with all reasonable skill, care and diligence. The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources, together with a site walkover inspection of the site, if undertaken.

The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned.

Information reviewed should not be considered exhaustive and accepted in good faith as providing true and representative data with respect to site conditions. Should additional information become available which may influence the opinion expressed in this report, GES reserves the right to review such information and, if warranted, to alter the opinions accordingly.

It should be noted that any risks identified in this report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site. This is an environmental Phase 1 report and does not consider the geotechnical implications for the site, its redevelopment and proposed future use. Further advice should be sought on geotechnical investigation requirements for the proposed development.

APPENDIX 1
DRAWINGS AND PLANS



General
Site
Location



GeoEnviro Solutions Ltd
Unit 7 Springvale Works
Brighouse
West Yorkshire
HD6 2RA

Tel: 01484 986010
Email: info@geoenvirosolutions.com
Web: www.geoenvirosolutions.com



PROJECT NAME 121A Acre Street, Huddersfield

PROJECT NUMBER 4075-23

TITLE
Site Location Plan

DRAWING NO.

4075-23/01

SCALE

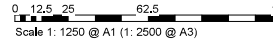
N.T.S

DATE

August 2023

DRAWN BY

JF



1 : 100

1 : 100

Rear Elevation (West Facing)

1 : 100

Perspective View

Site 1

Ground Floor

1 : 50

1 : 1250

project

Residential Development,
121A Acre Street, Lindley,
Huddersfield HD3 3EJ

client

Armitages Leisure Limited

title

Plans & Elevations - As Proposed

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APPENDIX 2
SITE PHOTOGRAPHS

Site: 121A Acre Street, Huddersfield

Client: Mrs Armitage

Job Reference: 4075-23



A.



B.



C.



D.



A. View west, along the cobbled access track to the site.

B. View west, showing site entrance.

C. View southwest, showing single storey annex.

D. View north, showing courtyard with building access and septic tank.

Site: 121A Acre Street, Huddersfield

Client: Mrs Armitage

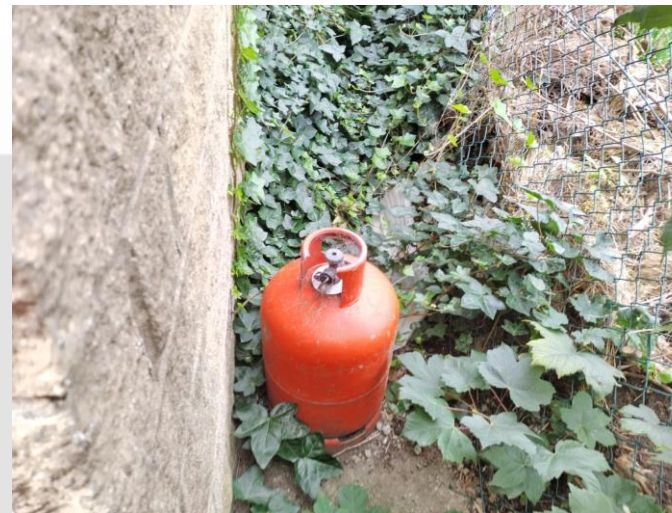
Job Reference: 4075-23



E.



F.



G.



H.



E. View north, showing septic tank adjacent to the building.

F. View west, showing overgrown vegetation along northern elevation of building.

G. View northwest, internal view of the building.

H. View northeast, internal view of the building.

APPENDIX 3

GROUNDSURE + GEO INSIGHT
REPORT

121A, ACRE STREET, LINDLEY, HUDDERSFIELD, HD3 3EJ

Order Details

Date: 22/08/2023
Your ref: 4075-23
Our Ref: GS-PBI-EV6-28T-XTI

Site Details

Location: 411933 417878
Area: 0.04 ha
Authority: [Kirklees Council](#) ↗



[Summary of findings](#)

[p. 2 >](#) [Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#) groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	1	0	17	39	-
18 >	1.2 >	Historical tanks >	0	0	8	22	-
19 >	1.3 >	Historical energy features >	0	0	6	20	-
20	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	0	2	-
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 >	1	0	21	52	-
25 >	2.2 >	Historical tanks >	0	0	14	33	-
27 >	2.3 >	Historical energy features >	0	0	13	45	-
30	2.4	Historical petrol stations	0	0	0	0	-
30 >	2.5 >	Historical garages >	0	0	0	7	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
31	3.1	Active or recent landfill	0	0	0	0	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
32	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
32 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
32	3.5	Historical waste sites	0	0	0	0	-
32 >	3.6 >	Licensed waste sites >	0	0	1	0	-
33 >	3.7 >	Waste exemptions >	0	0	1	13	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
35 >	4.1 >	Recent industrial land uses >	0	1	8	-	-
36	4.2	Current or recent petrol stations	0	0	0	0	-
36	4.3	Electricity cables	0	0	0	0	-
36	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-



37	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
37	4.7	Regulated explosive sites	0	0	0	0	-
37	4.8	Hazardous substance storage/usage	0	0	0	0	-
37	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
38	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
38 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	2	-
38 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	6	-
40	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
40	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
40	4.15	Pollutant release to public sewer	0	0	0	0	-
40	4.16	List 1 Dangerous Substances	0	0	0	0	-
40 >	4.17 >	List 2 Dangerous Substances >	0	0	1	0	-
41	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
41	4.19	Pollution inventory substances	0	0	0	0	-
41	4.20	Pollution inventory waste transfers	0	0	0	0	-
41 >	4.21 >	Pollution inventory radioactive waste >	0	0	0	1	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
43	5.1	Superficial aquifer	None (within 500m)				
44 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
45 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
46	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
47 >	5.6 >	Groundwater abstractions >	0	0	0	3	8
50 >	5.7 >	Surface water abstractions >	0	0	0	0	7
52	5.8	Potable abstractions	0	0	0	0	0
52	5.9	Source Protection Zones	0	0	0	0	-
53	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
54	6.1	Water Network (OS MasterMap)	0	0	0	-	-



54 >	6.2 >	Surface water features >	0	0	1	-	-
55 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
55 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
56 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
57	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
57	7.2	Historical Flood Events	0	0	0	-	-
57	7.3	Flood Defences	0	0	0	-	-
58	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
58	7.5	Flood Storage Areas	0	0	0	-	-
59	7.6	Flood Zone 2	None (within 50m)				
59	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
60 >	8.1 >	Surface water flooding >	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
62 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
63	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
64	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
64	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
64	10.4	Special Protection Areas (SPA)	0	0	0	0	0
64	10.5	National Nature Reserves (NNR)	0	0	0	0	0
65 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
65 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	3
65	10.8	Biosphere Reserves	0	0	0	0	0
66	10.9	Forest Parks	0	0	0	0	0
66	10.10	Marine Conservation Zones	0	0	0	0	0
66 >	10.11 >	Green Belt >	0	0	0	0	3
66	10.12	Proposed Ramsar sites	0	0	0	0	0



67	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
67	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
67	10.15	Nitrate Sensitive Areas	0	0	0	0	0
67	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
68 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
69	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
70	11.1	World Heritage Sites	0	0	0	-	-
71	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
71	11.3	National Parks	0	0	0	-	-
71 >	11.4 >	Listed Buildings >	0	1	9	-	-
72 >	11.5 >	Conservation Areas >	0	0	1	-	-
72	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75	12.4	Environmental Stewardship Schemes	0	0	0	-	-
76	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
77	13.1	Priority Habitat Inventory	0	0	0	-	-
77	13.2	Habitat Networks	0	0	0	-	-
78 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	14.1 >	10k Availability >	Identified (within 500m)				
80 >	14.2 >	Artificial and made ground (10k) >	0	0	0	1	-
81	14.3	Superficial geology (10k)	0	0	0	0	-



81	14.4	Landslip (10k)	0	0	0	0	-
82 >	14.5 >	Bedrock geology (10k) >	1	0	0	2	-
83 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	1	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
84 >	15.1 >	50k Availability >	Identified (within 500m)				
85	15.2	Artificial and made ground (50k)	0	0	0	0	-
85	15.3	Artificial ground permeability (50k)	0	0	-	-	-
86	15.4	Superficial geology (50k)	0	0	0	0	-
86	15.5	Superficial permeability (50k)	None (within 50m)				
86	15.6	Landslip (50k)	0	0	0	0	-
86	15.7	Landslip permeability (50k)	None (within 50m)				
87 >	15.8 >	Bedrock geology (50k) >	1	0	0	2	-
88 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
88 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	1	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	16.1 >	BGS Boreholes >	0	0	8	-	-
Page	Section	Natural ground subsidence >					
91 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
92 >	17.2 >	Running sands >	Negligible (within 50m)				
93 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
94 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
95 >	17.5 >	Landslides >	Very low (within 50m)				
96 >	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
98	18.1	BritPits	0	0	0	0	-
99 >	18.2 >	Surface ground workings >	0	0	17	-	-
99 >	18.3 >	Underground workings >	0	0	0	0	1
100	18.4	Underground mining extents	0	0	0	0	-
100	18.5	Historical Mineral Planning Areas	0	0	0	0	-



100 >	18.6 >	Non-coal mining >	0	0	0	0	3
101	18.7	JPB mining areas	None (within 0m)				
101	18.8	The Coal Authority non-coal mining	0	0	0	0	-
101 >	18.9 >	Researched mining >	0	0	0	1	-
102	18.10	Mining record office plans	0	0	0	0	-
102	18.11	BGS mine plans	0	0	0	0	-
102 >	18.12 >	Coal mining >	Identified (within 0m)				
102	18.13	Brine areas	None (within 0m)				
103	18.14	Gypsum areas	None (within 0m)				
103	18.15	Tin mining	None (within 0m)				
103	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
104	19.1	Natural cavities	0	0	0	0	-
104	19.2	Mining cavities	0	0	0	0	0
104	19.3	Reported recent incidents	0	0	0	0	-
104	19.4	Historical incidents	0	0	0	0	-
105	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
106 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
108 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	2	-	-	-
108	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
108	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
109	22.1	Underground railways (London)	0	0	0	-	-
109	22.2	Underground railways (Non-London)	0	0	0	-	-
109	22.3	Railway tunnels	0	0	0	-	-
109	22.4	Historical railway and tunnel features	0	0	0	-	-
109	22.5	Royal Mail tunnels	0	0	0	-	-



110	22.6	Historical railways	0	0	0	-	-
110	22.7	Railways	0	0	0	-	-
110	22.8	Crossrail 1	0	0	0	0	-
110	22.9	Crossrail 2	0	0	0	0	-
110	22.10	HS2	0	0	0	0	-



Recent aerial photograph



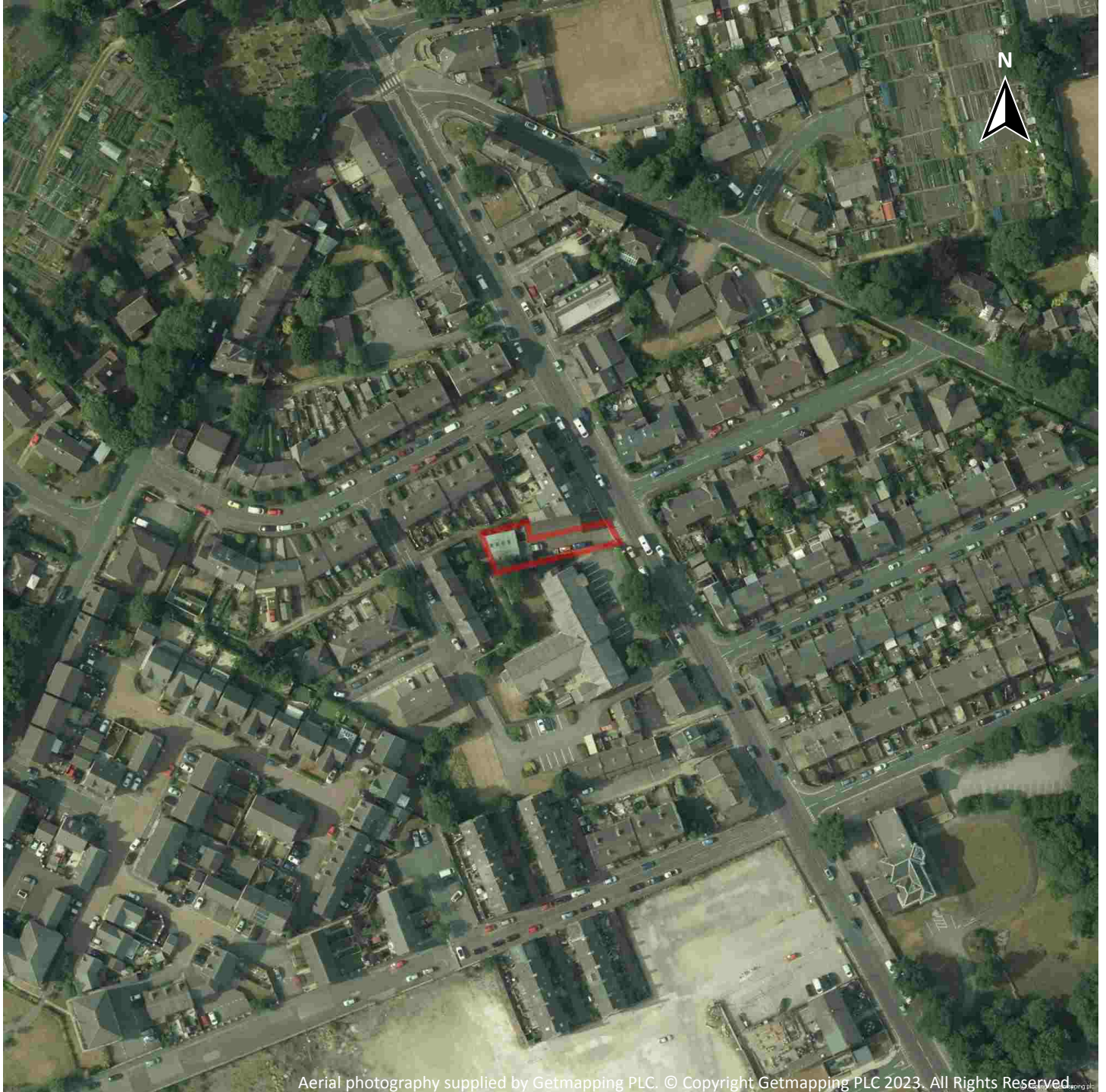
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved.

Capture Date: 30/05/2021

Site Area: 0.04ha



Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.04ha



Recent site history - 2012 aerial photograph

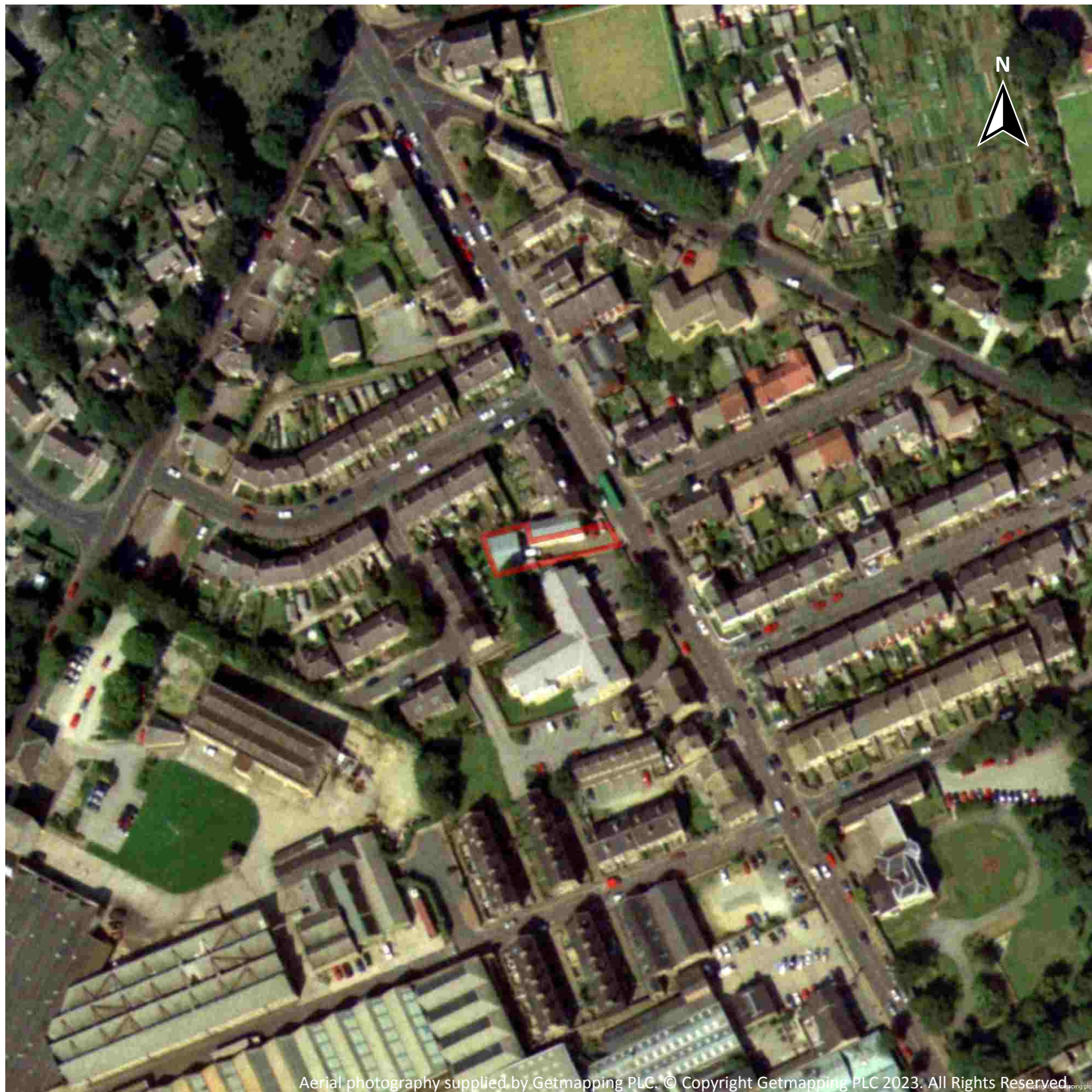


Capture Date: 26/03/2012

Site Area: 0.04ha



Recent site history - 2000 aerial photograph

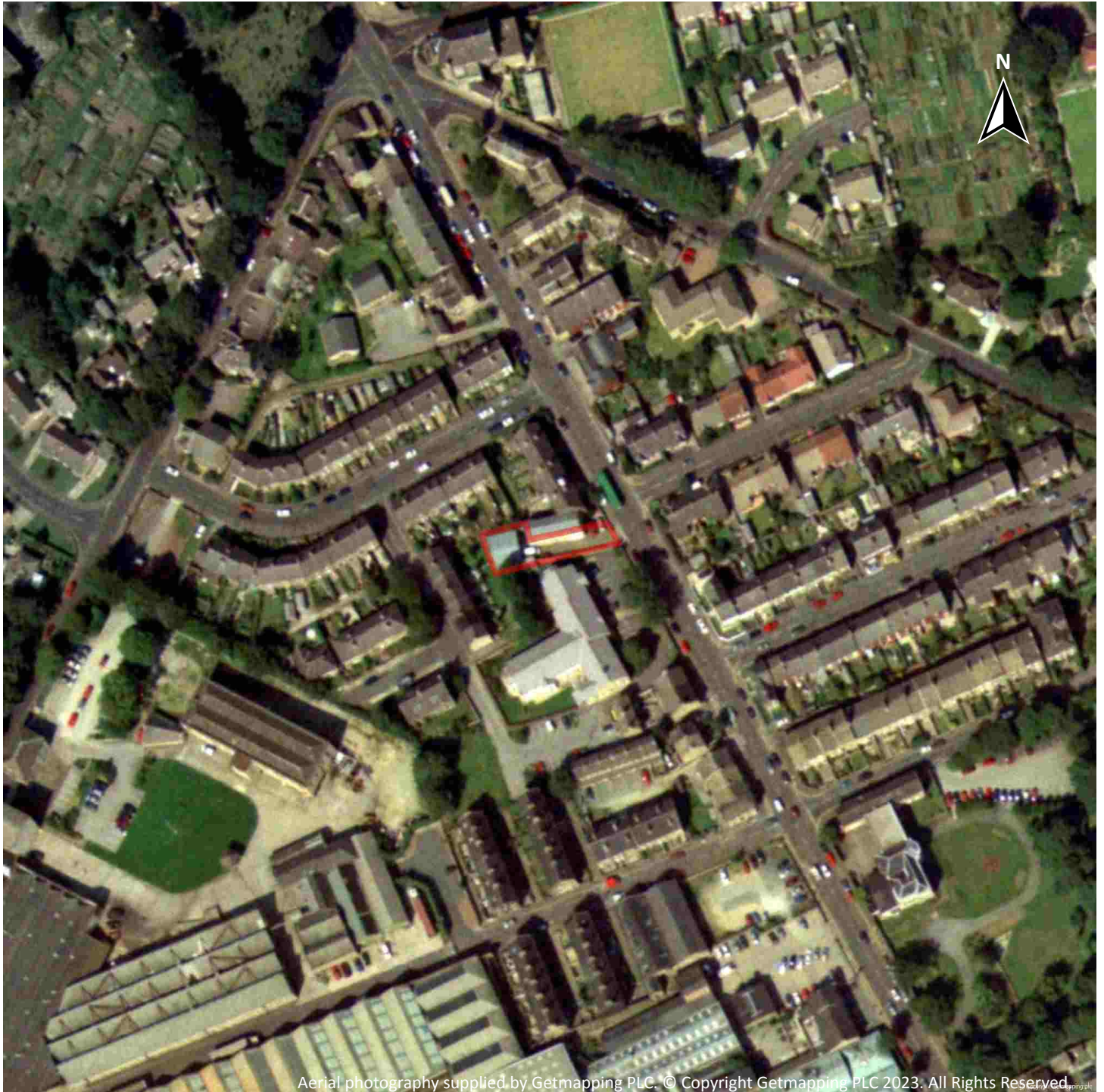


Capture Date: 25/08/2000

Site Area: 0.04ha



Recent site history - 1999 aerial photograph



Capture Date: 05/09/1999

Site Area: 0.04ha



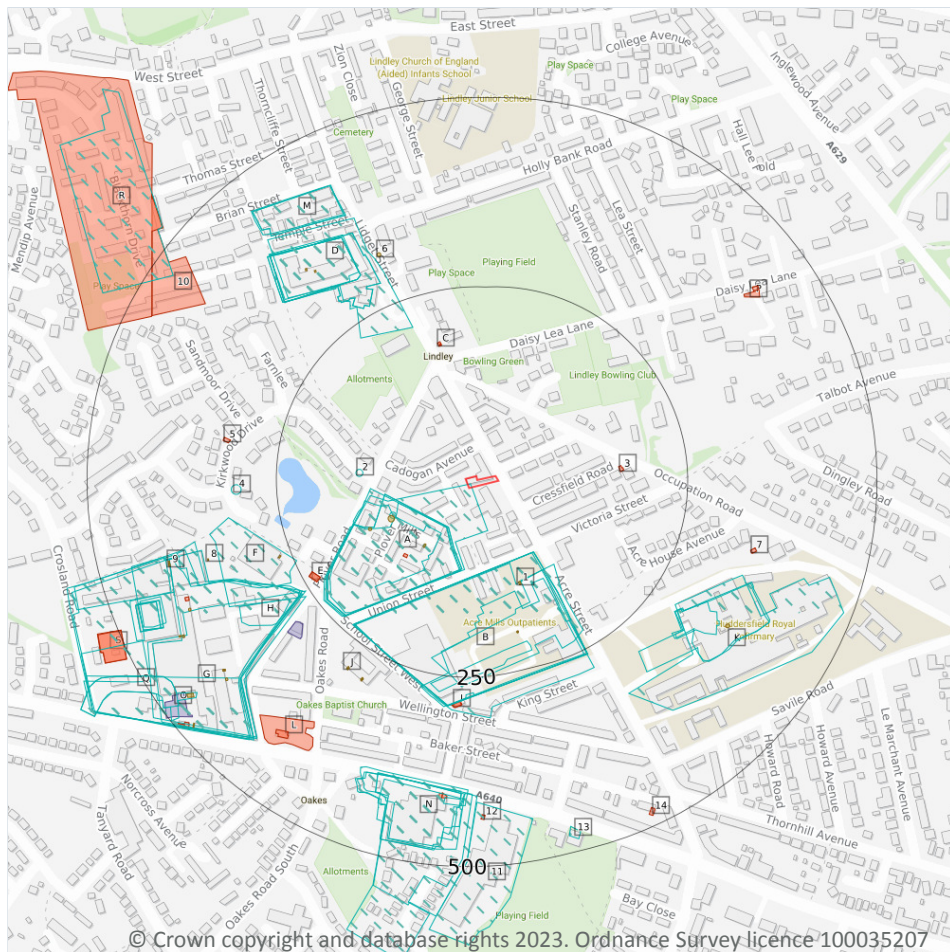
OS MasterMap site plan



Site Area: 0.04ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

57

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Woollen Mills	1890	1411713



ID	Location	Land use	Dates present	Group ID
A	59m SW	Unspecified Mill	1966 - 1985	1460428
A	59m SW	Unspecified Mills	1956	1496311
A	60m SW	Unspecified Mill	1948	1469436
A	60m SW	Unspecified Mills	1938	1543238
A	70m SW	Unspecified Mills	1905	1486354
A	103m W	Unspecified Tank	1985	1433306
B	104m SE	Unspecified Mills	1948	1485399
B	105m SE	Unspecified Works	1966	1438165
B	105m SE	Unspecified Mills	1975 - 1985	1462846
B	105m SE	Unspecified Mills	1956	1464141
B	109m S	Unspecified Mills	1938	1515314
B	131m SE	Cards Mills	1890	1433245
2	136m W	Unspecified Tank	1966	1433305
B	142m SE	Unspecified Mills	1905	1468908
D	212m NW	Iron Works	1890	1500731
B	214m S	Mill Ponds	1890	1411434
F	247m SW	Unspecified Works	1975 - 1985	1551152
G	255m SW	Woollen Mills	1890	1411714
G	259m SW	Unspecified Mills	1956 - 1966	1534523
G	259m SW	Unspecified Mills	1975 - 1985	1495707
D	261m NW	Iron Works	1948	1458624
D	261m NW	Iron Works	1905	1524533
G	261m SW	Unspecified Mills	1938	1528890
G	261m SW	Unspecified Mills	1905	1474280
G	263m SW	Unspecified Mills	1948	1477817
H	279m SW	Mill Pond	1890	1425402
K	285m SE	Infirmary	1975 - 1985	1516226
K	290m SE	Hospital	1948	1480431



ID	Location	Land use	Dates present	Group ID
K	291m SE	Hospital	1938	1544573
K	291m SE	Hospital	1956	1503268
4	297m W	Unspecified Tank	1966 - 1975	1522404
D	300m NW	Unspecified Mill	1966	1421239
D	300m NW	Unspecified Mills	1975 - 1985	1483401
D	300m NW	Iron Works	1956	1548362
D	302m NW	Iron Works	1938	1550555
M	383m NW	Unspecified Commercial/Industrial	1975	1410455
M	383m NW	Unspecified Mills	1956 - 1966	1502029
M	385m NW	Unspecified Mills	1948	1537139
N	390m S	Woollen Mill	1890	1431065
O	392m SW	Railway Sidings	1956	1541221
N	394m S	Unspecified Mills	1956 - 1966	1532031
N	394m S	Unspecified Mills	1938	1512710
N	394m S	Unspecified Mills	1948	1522748
N	394m S	Unspecified Mills	1905	1477255
N	400m S	Unspecified Mill	1975 - 1985	1554377
G	405m W	Unspecified Factory	1975 - 1985	1459145
11	415m S	Unspecified Warehouse	1975 - 1985	1534764
G	432m W	Mill Pond	1890	1549813
G	435m W	Mill Pond	1938	1484529
G	435m W	Mill Pond	1956	1538539
G	439m W	Mill Pond	1905	1489677
G	439m W	Mill Pond	1948	1557291
Q	449m SW	Railway Sidings	1938 - 1948	1467694
13	466m S	Police Station	1975 - 1985	1514866
Q	469m SW	Railway Sidings	1905	1502402
R	470m NW	Unspecified Depot	1975 - 1985	1493556

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

30

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	94m SW	Tanks	1982	230298
A	106m SW	Unspecified Tank	1982 - 1996	240465
1	136m S	Unspecified Tank	1982 - 1996	235651
A	139m SW	Unspecified Tank	1893	223032
B	198m S	Unspecified Tank	1982	237694
B	199m S	Unspecified Tank	1993	236633
B	199m S	Unspecified Tank	1995	239649
B	199m S	Unspecified Tank	1996	245742
F	264m W	Unspecified Tank	1982 - 1996	243070
J	284m SW	Unspecified Tank	1993 - 1995	245772
J	285m SW	Unspecified Tank	1982	250038
J	287m SW	Unspecified Tank	1995	245144
J	288m SW	Unspecified Tank	1982	240232
J	289m SW	Unspecified Tank	1993	243286
6	315m NW	Unspecified Tank	1933	223022
D	337m NW	Unspecified Tank	1933	223023
D	346m NW	Unspecified Tank	1933	223024
8	356m W	Unspecified Tank	1982	223031
K	356m SE	Unspecified Tank	1967 - 1986	241045
G	401m SW	Unspecified Tank	1982 - 1996	241172
G	402m SW	Tanks	1993	244733



ID	Location	Land use	Dates present	Group ID
G	402m SW	Tanks	1995	236677
G	402m SW	Tanks	1996	243667
G	402m SW	Tanks	1982	234668
9	406m W	Tanks	1982	230292
G	406m SW	Tanks	1982 - 1996	247023
G	423m SW	Tanks	1982	230294
G	427m SW	Tanks	1982	230293
O	454m SW	Unspecified Tank	1907	223044
O	478m SW	Tanks	1982	230295

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

26

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	120m SW	Electricity Substation	1982 - 1996	137282
3	160m E	Electricity Substation	1967 - 1986	134961
C	178m N	Electricity Substation	1972 - 1981	141955
C	179m N	Electricity Substation	1996	141601
E	229m SW	Electricity Substation	1982	139358
E	229m SW	Electricity Substation	1993 - 1996	142762
I	281m S	Electricity Substation	1982	144049
I	282m S	Electricity Substation	1993 - 1996	137872
5	315m W	Electricity Substation	1982 - 1996	135491



ID	Location	Land use	Dates present	Group ID
7	345m E	Electricity Substation	1967 - 1986	135327
L	370m SW	Electricity Substation	1993	140466
G	397m W	Electricity Substation	1982 - 1996	138836
L	401m SW	Electricity Substation	1982 - 1996	143443
N	404m S	Electricity Substation	1969 - 1984	142375
N	405m S	Electricity Substation	1993	143280
P	405m NE	Electricity Substation	1993	128932
10	414m NW	Electricity Depot	1981	141207
P	419m NE	Electricity Substation	1970 - 1987	136613
12	432m S	Electricity Substation	1969 - 1993	138302
R	467m NW	Electricity Depot	1970 - 1978	142830
14	477m SE	Electricity Substation	1972 - 1989	145032
O	483m SW	Electricity Substations	1993 - 1995	137064
O	489m SW	Electricity Substations	1982	143221
O	495m SW	Electricity Substation	1996	128940
S	496m SW	Electricity Substation	1972 - 1990	142562
S	497m SW	Electricity Substation	1993	138280

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

2

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
H	284m SW	Garage	1961 - 1996	47019
O	464m SW	Garage	1996	41087

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

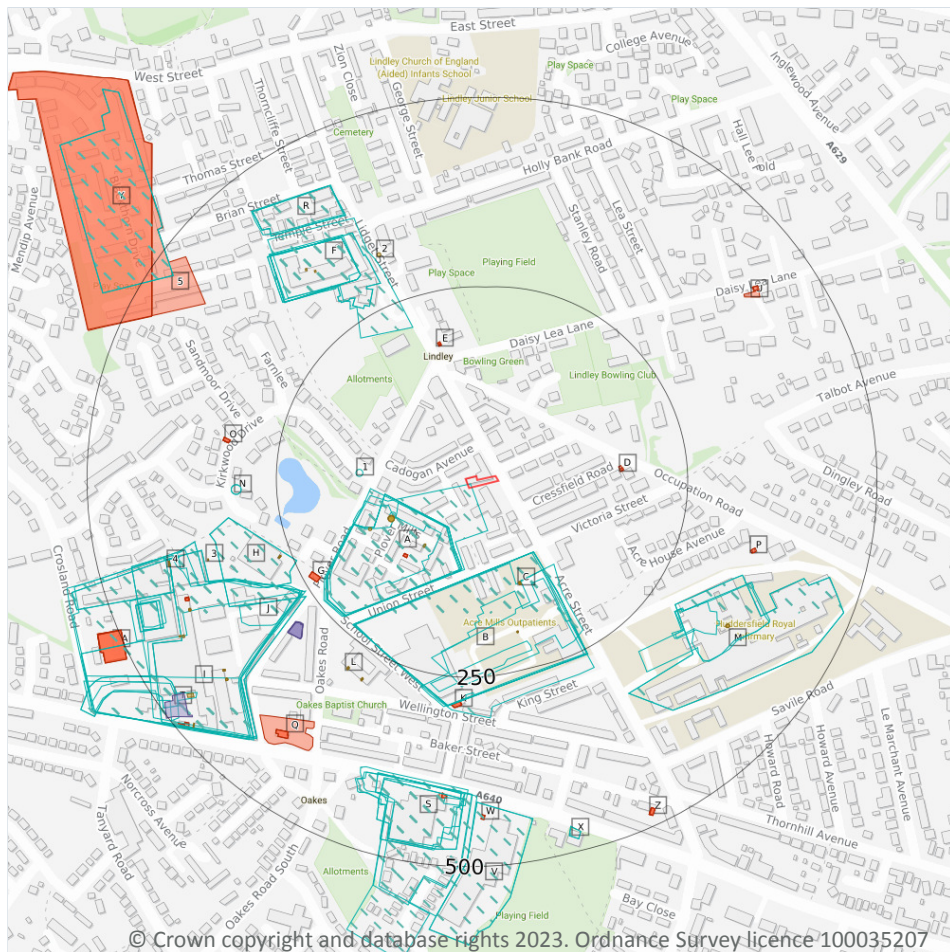
0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

74

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	Woollen Mills	1890	1411713
A	59m SW	Unspecified Mill	1975	1460428
A	59m SW	Unspecified Mills	1956	1496311



ID	Location	Land Use	Date	Group ID
A	59m SW	Unspecified Mill	1985	1460428
A	59m SW	Unspecified Mill	1966	1460428
A	60m SW	Unspecified Mill	1948	1469436
A	60m SW	Unspecified Mills	1938	1543238
A	70m SW	Unspecified Mills	1905	1486354
A	103m W	Unspecified Tank	1985	1433306
B	104m SE	Unspecified Mills	1948	1485399
B	105m SE	Unspecified Mills	1975	1462846
B	105m SE	Unspecified Mills	1956	1464141
B	105m SE	Unspecified Mills	1985	1462846
B	105m SE	Unspecified Works	1966	1438165
B	109m S	Unspecified Mills	1938	1515314
B	131m SE	Cards Mills	1890	1433245
1	136m W	Unspecified Tank	1966	1433305
B	142m SE	Unspecified Mills	1905	1468908
F	212m NW	Iron Works	1890	1500731
B	214m S	Mill Ponds	1890	1411434
H	247m SW	Unspecified Works	1975	1551152
H	247m SW	Unspecified Works	1985	1551152
I	255m SW	Woollen Mills	1890	1411714
I	259m SW	Unspecified Mills	1956	1534523
I	259m SW	Unspecified Mills	1966	1534523
I	259m SW	Unspecified Mills	1975	1495707
I	259m SW	Unspecified Mills	1985	1495707
F	261m NW	Iron Works	1948	1458624
F	261m NW	Iron Works	1905	1524533
I	261m SW	Unspecified Mills	1938	1528890
I	261m SW	Unspecified Mills	1905	1474280



ID	Location	Land Use	Date	Group ID
I	263m SW	Unspecified Mills	1948	1477817
J	279m SW	Mill Pond	1890	1425402
M	285m SE	Infirmary	1975	1516226
M	285m SE	Infirmary	1985	1516226
M	290m SE	Hospital	1948	1480431
M	291m SE	Hospital	1938	1544573
M	291m SE	Hospital	1956	1503268
N	297m W	Unspecified Tank	1975	1522404
N	297m W	Unspecified Tank	1966	1522404
F	300m NW	Unspecified Mills	1975	1483401
F	300m NW	Iron Works	1956	1548362
F	300m NW	Unspecified Mills	1985	1483401
F	300m NW	Unspecified Mill	1966	1421239
F	302m NW	Iron Works	1938	1550555
R	383m NW	Unspecified Commercial/Industrial	1975	1410455
R	383m NW	Unspecified Mills	1956	1502029
R	383m NW	Unspecified Mills	1966	1502029
R	385m NW	Unspecified Mills	1948	1537139
S	390m S	Woollen Mill	1890	1431065
T	392m SW	Railway Sidings	1956	1541221
S	394m S	Unspecified Mills	1956	1532031
S	394m S	Unspecified Mills	1938	1512710
S	394m S	Unspecified Mills	1948	1522748
S	394m S	Unspecified Mills	1905	1477255
S	396m S	Unspecified Mills	1966	1532031
S	400m S	Unspecified Mill	1975	1554377
S	400m S	Unspecified Mill	1985	1554377
I	405m W	Unspecified Factory	1975	1459145



ID	Location	Land Use	Date	Group ID
I	405m W	Unspecified Factory	1985	1459145
V	415m S	Unspecified Warehouse	1975	1534764
V	415m S	Unspecified Warehouse	1985	1534764
I	432m W	Mill Pond	1890	1549813
I	435m W	Mill Pond	1938	1484529
I	435m W	Mill Pond	1956	1538539
I	439m W	Mill Pond	1948	1557291
I	439m W	Mill Pond	1905	1489677
T	449m SW	Railway Sidings	1938	1467694
X	466m S	Police Station	1975	1514866
X	466m S	Police Station	1985	1514866
T	469m SW	Railway Sidings	1948	1467694
T	469m SW	Railway Sidings	1905	1502402
Y	470m NW	Unspecified Depot	1975	1493556
Y	470m NW	Unspecified Depot	1985	1493556

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

47

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
A	94m SW	Tanks	1982	230298
A	106m SW	Unspecified Tank	1993	240465
A	106m SW	Unspecified Tank	1995	240465
A	106m SW	Unspecified Tank	1996	240465
A	107m SW	Unspecified Tank	1982	240465



ID	Location	Land Use	Date	Group ID
C	136m S	Unspecified Tank	1982	235651
C	136m S	Unspecified Tank	1993	235651
C	136m S	Unspecified Tank	1995	235651
C	136m S	Unspecified Tank	1996	235651
A	139m SW	Unspecified Tank	1893	223032
B	198m S	Unspecified Tank	1982	237694
B	199m S	Unspecified Tank	1993	236633
B	199m S	Unspecified Tank	1995	239649
B	199m S	Unspecified Tank	1996	245742
H	264m W	Unspecified Tank	1993	243070
H	264m W	Unspecified Tank	1995	243070
H	264m W	Unspecified Tank	1996	243070
H	264m W	Unspecified Tank	1982	243070
L	284m SW	Unspecified Tank	1995	245772
L	285m SW	Unspecified Tank	1982	250038
L	285m SW	Unspecified Tank	1993	245772
L	287m SW	Unspecified Tank	1995	245144
L	288m SW	Unspecified Tank	1982	240232
L	289m SW	Unspecified Tank	1993	243286
2	315m NW	Unspecified Tank	1933	223022
F	337m NW	Unspecified Tank	1933	223023
F	346m NW	Unspecified Tank	1933	223024
3	356m W	Unspecified Tank	1982	223031
M	356m SE	Unspecified Tank	1986	241045
M	356m SE	Unspecified Tank	1967	241045
I	401m SW	Unspecified Tank	1982	241172
I	401m SW	Unspecified Tank	1993	241172
I	401m SW	Unspecified Tank	1995	241172



ID	Location	Land Use	Date	Group ID
I	401m SW	Unspecified Tank	1996	241172
I	402m SW	Tanks	1993	244733
I	402m SW	Tanks	1995	236677
I	402m SW	Tanks	1996	243667
I	402m SW	Tanks	1982	234668
4	406m W	Tanks	1982	230292
I	406m SW	Tanks	1982	247023
I	406m SW	Tanks	1993	247023
I	406m SW	Tanks	1995	247023
I	406m SW	Tanks	1996	247023
I	423m SW	Tanks	1982	230294
I	427m SW	Tanks	1982	230293
T	454m SW	Unspecified Tank	1907	223044
T	478m SW	Tanks	1982	230295

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

58

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
A	120m SW	Electricity Substation	1993	137282
A	120m SW	Electricity Substation	1995	137282
A	120m SW	Electricity Substation	1996	137282
A	120m SW	Electricity Substation	1982	137282
D	160m E	Electricity Substation	1986	134961
D	163m E	Electricity Substation	1967	134961



ID	Location	Land Use	Date	Group ID
E	178m N	Electricity Substation	1972	141955
E	179m N	Electricity Substation	1981	141955
E	179m N	Electricity Substation	1996	141601
G	229m SW	Electricity Substation	1982	139358
G	229m SW	Electricity Substation	1993	142762
G	229m SW	Electricity Substation	1995	142762
G	229m SW	Electricity Substation	1996	142762
K	281m S	Electricity Substation	1982	144049
K	282m S	Electricity Substation	1993	137872
K	282m S	Electricity Substation	1995	137872
K	282m S	Electricity Substation	1996	137872
O	315m W	Electricity Substation	1993	135491
O	315m W	Electricity Substation	1995	135491
O	315m W	Electricity Substation	1996	135491
O	315m W	Electricity Substation	1982	135491
P	345m E	Electricity Substation	1986	135327
P	347m E	Electricity Substation	1967	135327
Q	370m SW	Electricity Substation	1993	140466
I	397m W	Electricity Substation	1982	138836
I	398m W	Electricity Substation	1993	138836
I	398m W	Electricity Substation	1995	138836
I	398m W	Electricity Substation	1996	138836
Q	401m SW	Electricity Substation	1995	143443
Q	401m SW	Electricity Substation	1996	143443
Q	401m SW	Electricity Substation	1982	143443
S	404m S	Electricity Substation	1969	142375
S	405m S	Electricity Substation	1993	143280
S	405m S	Electricity Substation	1984	142375



ID	Location	Land Use	Date	Group ID
U	405m NE	Electricity Substation	1993	128932
5	414m NW	Electricity Depot	1981	141207
U	419m NE	Electricity Substation	1987	136613
U	420m NE	Electricity Substation	1970	136613
W	432m S	Electricity Substation	1969	138302
W	432m S	Electricity Substation	1993	138302
W	432m S	Electricity Substation	1984	138302
Y	467m NW	Electricity Depot	1970	142830
Y	467m NW	Electricity Depot	1978	142830
Z	477m SE	Electricity Substation	1980	145032
Z	477m SE	Electricity Substation	1980	145032
Z	477m SE	Electricity Substation	1980	145032
Z	477m SE	Electricity Substation	1989	145032
Z	477m SE	Electricity Substation	1989	145032
Z	477m SE	Electricity Substation	1972	145032
T	483m SW	Electricity Substations	1995	137064
T	483m SW	Electricity Substations	1993	137064
T	489m SW	Electricity Substations	1982	143221
T	495m SW	Electricity Substation	1996	128940
AA	496m SW	Electricity Substation	1980	142562
AA	496m SW	Electricity Substation	1990	142562
AA	496m SW	Electricity Substation	1990	142562
AA	497m SW	Electricity Substation	1972	142562
AA	497m SW	Electricity Substation	1993	138280

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

7

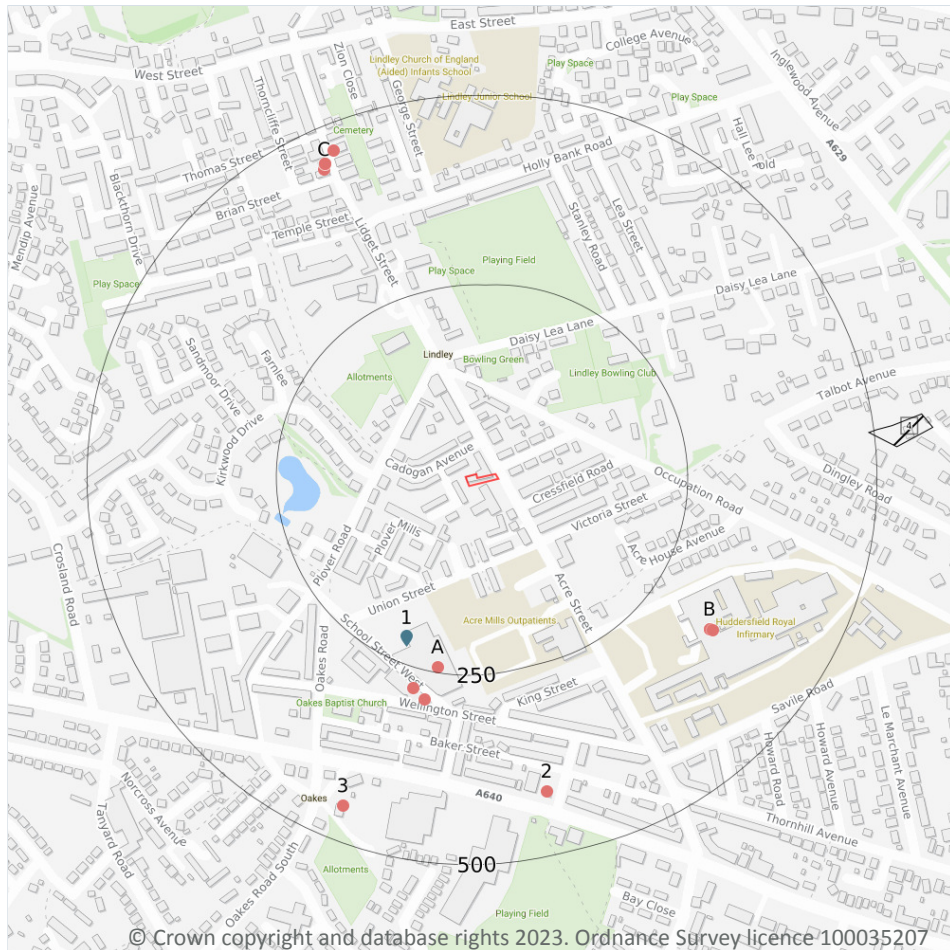
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
J	284m SW	Garage	1961	47019
J	284m SW	Garage	1982	47019
J	284m SW	Garage	1962	47019
J	284m SW	Garage	1995	47019
J	284m SW	Garage	1996	47019
J	284m SW	Garage	1993	47019
T	464m SW	Garage	1996	41087

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 31 >](#)

ID	Location	Details		
4	493m E	Site Address: Buckden Road, Edgerton Licence Holder Address: -	Waste Licence: Yes Site Reference: 4700/0681, 4700/0185 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/11/1988 Licence Surrender: 16/05/1990	Operator: - Licence Holder: M B O'Toole First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 31 >](#)

ID	Location	Details		
1	217m SW	Site Name: Joseph Sykes Site Address: Acre Mills, Acre Street, Lindley, Huddersfield, West Yorkshire, HD3 3EB Correspondence Address: -	Type of Site: In-House Storage Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JOS001 EPR reference: EA/EPR/TP3995ZN/S002 Operator: Joseph Sykes Brothers Limited Waste Management licence No: 61031 Annual Tonnage: 1598	Issue Date: 21/12/1995 Effective Date: - Modified: - Surrendered Date: 04/06/2004 Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m	14
----------------------------	-----------

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 31](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
A	244m S	Huddersfield Pharmacy Specials Gate2, Acre Mills, School Street Huddersfield West Yorkshire HD3 3WB	EPR/XF0901TD /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
A	277m S	Gate 2, Acre Mills, School Street, Lindley, Huddersfield, HD3 3ET	WEX136513	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	289m S	Gate 2, Acre Mills, School Street, Lindley, Huddersfield, HD3 3ET	WEX278001	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	343m SE	ACRE STREET, HUDDERSFIELD, HD3 3EA	WEX130946	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	343m SE	ACRE STREET, HUDDERSFIELD, HD3 3EA	WEX350418	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	343m SE	ACRE STREET, HUDDERSFIELD, HD3 3EA	WEX290675	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

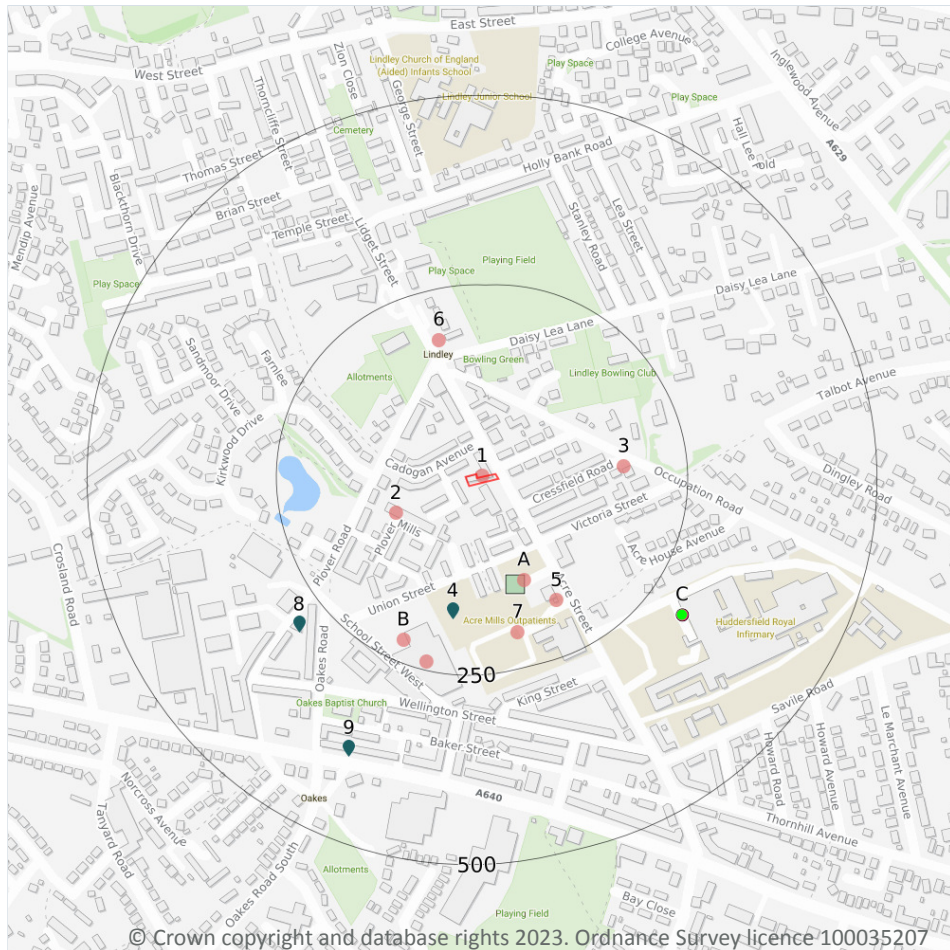


ID	Location	Site	Reference	Category	Sub-Category	Description
B	346m SE	Huddersfield Royal Infirmary Acre Street Huddersfield West Yorkshire HD3 3EA	EPR/FE5243ZU /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
2	417m S	144, NEW HEY ROAD, HUDDERSFIELD, HD3 4BZ	WEX111499	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	446m NW	57, LIDGET STREET, HUDDERSFIELD, HD3 3JP	WEX313681	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	453m NW	59, LIDGET STREET, HUDDERSFIELD, HD3 3JP	WEX183706	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	453m NW	59, LIDGET STREET, HUDDERSFIELD, HD3 3JP	WEX024871	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	453m NW	59, LIDGET STREET, HUDDERSFIELD, HD3 3JP	WEX313691	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
3	455m SW	1, Sparks Road, Oakes, Huddersfield, HD3 4BX	WEX112976	Disposing of waste exemption	Not on a farm	Burning waste in the open
C	464m NW	59 Lidget Street Huddersfield West Yorkshire HD3 3JP	EPR/VH0574FZ /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal

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)
- Radioactive Substance Authorisations
- List 2 Dangerous Substances
- Pollution inventory radioactive waste

4.1 Recent industrial land uses

Records within 250m

9

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 35 >](#)

ID	Location	Company	Address	Activity	Category
1	1m NE	Armitage Leisure Services	121a, Acre Street, Lindley, Huddersfield, West Yorkshire, HD3 3EJ	Hobby, Sports and Pastime Products	Consumer Products
2	103m W	Tank	West Yorkshire, HD3	Tanks (Generic)	Industrial Features
A	138m SE	Tank	West Yorkshire, HD3	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
3	166m E	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
5	178m SE	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
6	184m N	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
7	203m S	Tank	West Yorkshire, HD3	Tanks (Generic)	Industrial Features
B	221m SW	Gantry	West Yorkshire, HD3	Travelling Cranes and Gantries	Industrial Features
B	239m S	Acre Mills	Acre Mills, School Street West, Oakes, Huddersfield, West Yorkshire, HD3 3EB	Hospitals	Health Practitioners and Establishments

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

3

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 35 >](#)

ID	Location	Address	Details	
4	166m S	Joseph Sykes Brothers Ltd, Acre St, Lindley, Huddersfield, HD3 3EB	Process: Hot Dip Galvanizing Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
8	289m SW	Paul Wood, Plover Garage, Plover Road, Lindley, Huddersfield, HD7 1AW	Process: Waste Oil Burner 0.4 MW; Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
9	380m SW	Salendine Auto Services, New Hey Road, Oakes, Huddersfield, HD3 4BU	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

6

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

Features are displayed on the Current industrial land use map on [page 35 >](#)



ID	Location	Address	Details	
C	301m SE	Huddersfield Royal Infirmary, Acre Street, Lindley, Huddersfield, HD3 3EA	Operator: Calderdale & Huddersfield NHS Foundation Trust Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BW0690 Date of approval: 02/04/2004	Effective from: 02/04/2004 Last date of update: 01/01/2020 Status: Issued
C	301m SE	Huddersfield Royal Infirmary, Acre Street, Lindley, Huddersfield, HD3 3EA	Operator: Calderdale & Huddersfield NHS Foundation Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BW0703 Date of approval: 27/05/2004	Effective from: 28/05/2004 Last date of update: 01/01/2020 Status: Issued
C	301m SE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AB0740 Date of approval: 12/09/1995	Effective from: 12/09/1995 Last date of update: 01/01/2015 Status: Superseded By Variation
C	301m SE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, Acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0109 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Superseded By Variation
C	301m SE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, Acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0109 Date of approval: 18/03/1994	Effective from: 18/03/1994 Last date of update: 01/01/2015 Status: Superseded By Variation
C	301m SE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, Acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0109 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation

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



4.13 Licensed Discharges to controlled waters

Records within 500m**0**

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**1**

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

Features are displayed on the Current industrial land use map on [page 35 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
A	141m S	Joseph Sykes Bros Ltd, Acre Mills, Acre St, Huddersfield	Not Active	Unknown	Chromium, Copper, Lead, Zinc

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



4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

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

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on [page 35 >](#)

ID: C, Location: 302m SE, Permit: AC0109
 Operator: CALDERDALE AND HUDDERSFIELD NHS TRUST (HUDDERSFIELD ROYAL INFIRMARY)
 Address: HUDDERSFIELD ROYAL INFIRMARY ACRE STREET HUDDERSFIELD WEST YORKSHIRE HD3 3EA
 Releases:

Route	Substance	Quantity released
Wastewater	Technetium 99m	182847MBq -

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

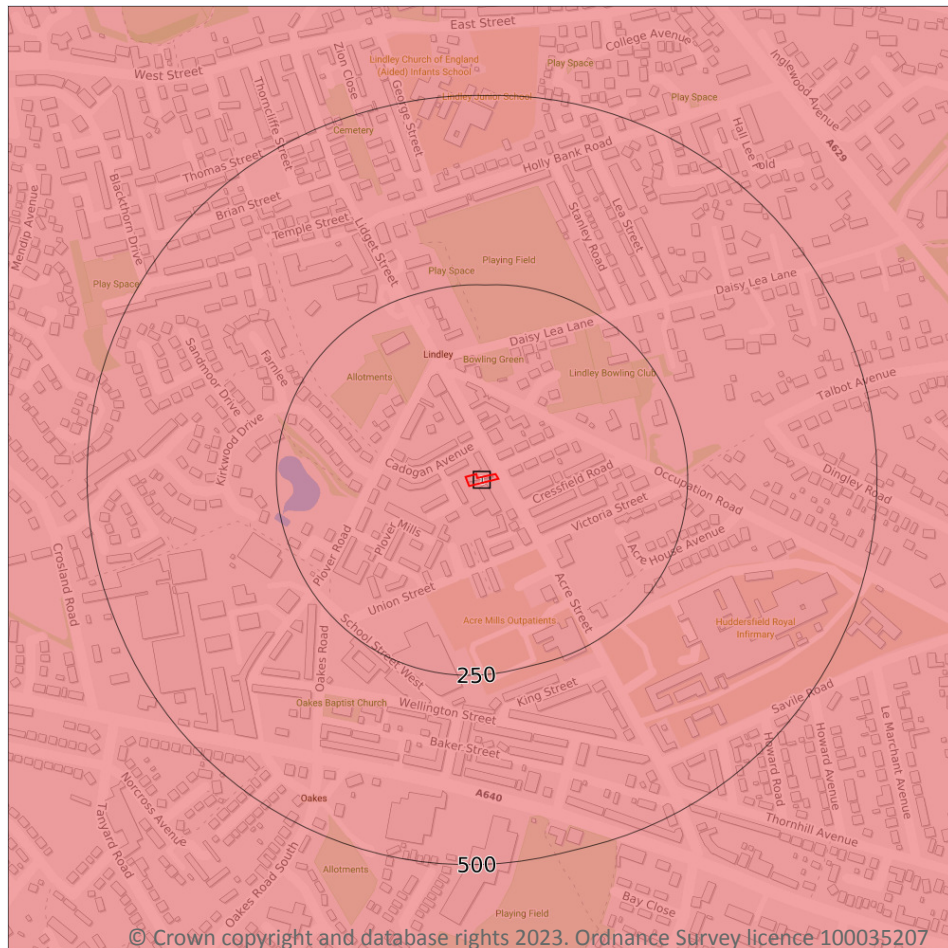
0

Aquifer status of groundwater held within superficial geology.

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.

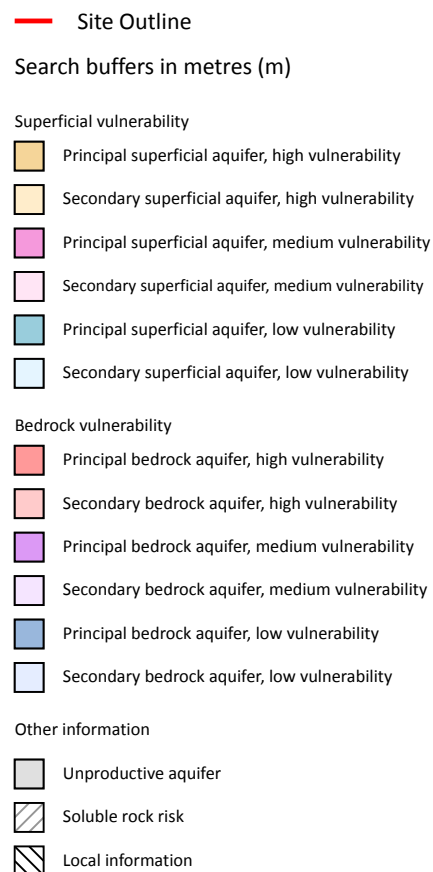
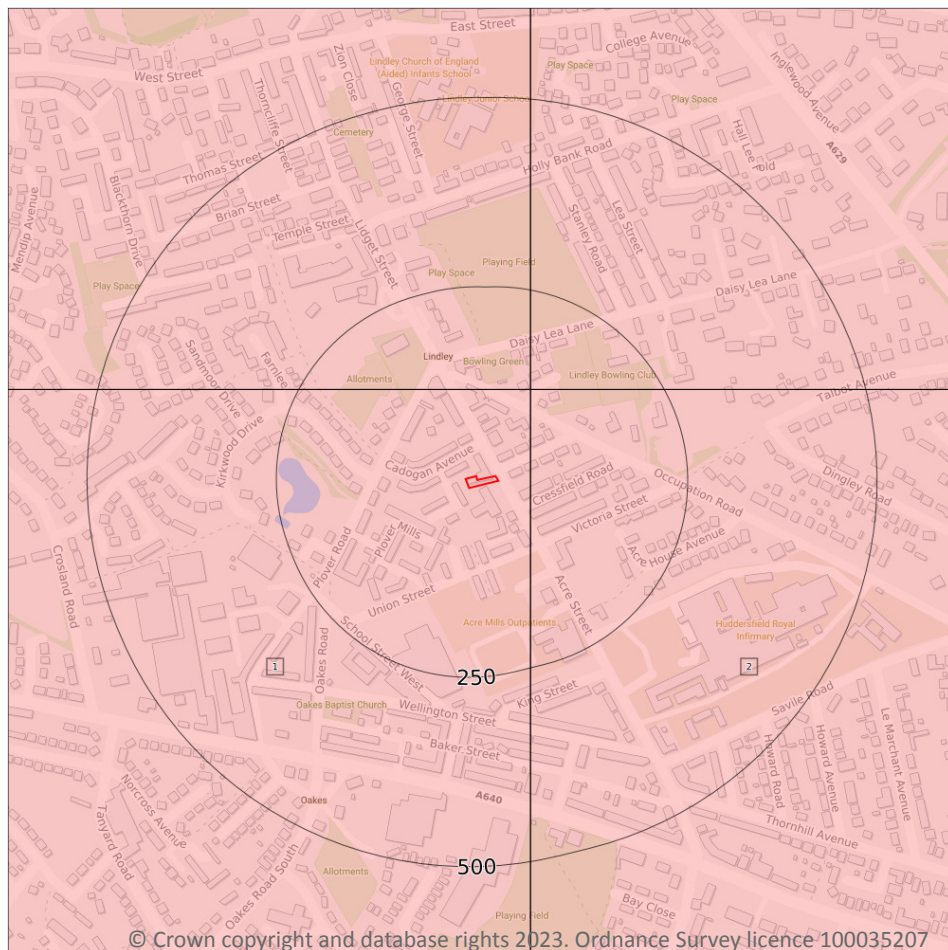
Features are displayed on the Bedrock aquifer map on [page 44](#) >

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

2

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 45 >](#)



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	42m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High 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

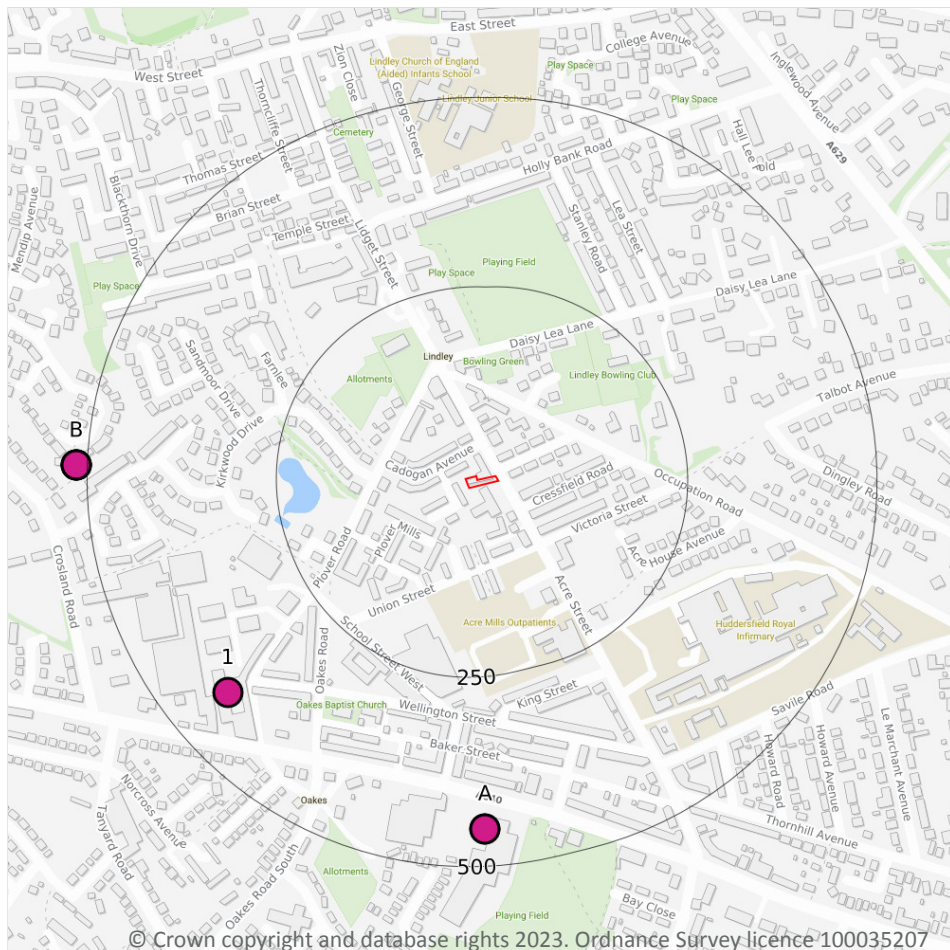
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment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

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



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

11

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 47 >](#)



ID	Location	Details	
1	417m SW	Status: Historical Licence No: 2/27/10/120 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOHN GLADSTONE & COMPANY LIMITED Easting: 411600 Northing: 417600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1997 Expiry Date: 31/12/2001 Issue No: 100 Version Start Date: 21/01/1997 Version End Date: -
A	450m S	Status: Historical Licence No: 2/27/11/186 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-OAKES-HUDDERSFIELD Data Type: Point Name: T E NEWSHOLME LIMITED Easting: 411940 Northing: 417420	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/06/2000 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 10/06/2000 Version End Date: -
A	450m S	Status: Historical Licence No: 2/27/11/186 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT- OAKES Data Type: Point Name: T E NEWSHOLME LTD Easting: 411940 Northing: 417420	Annual Volume (m ³): 35000 Max Daily Volume (m ³): 96 Original Application No: - Original Start Date: 10/06/2000 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 10/06/2000 Version End Date: -
B	514m W	Status: Historical Licence No: 2/27/11/058 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRINGCATCHMENT AREA Data Type: Point Name: JOSEPH SYKES BROTHERS Easting: 411400 Northing: 417900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -



ID	Location	Details	
B	514m W	Status: Historical Licence No: 2/27/11/058 Details: Boiler Feed Direct Source: GROUNDWATERS Point: SPRINGCATCHMENT AREA Data Type: Point Name: JOSEPH SYKES BROTHERS Easting: 411400 Northing: 417900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
B	514m W	Status: Historical Licence No: 2/27/11/058 Details: Boiler Feed Direct Source: GROUNDWATERS Point: SPRING - LINDLEY Data Type: Point Name: CALDERDALE & HUDDERSFIELD NHS TRUST Easting: 411400 Northing: 417900	Annual Volume (m ³): 24094 Max Daily Volume (m ³): 65.5 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
B	514m W	Status: Historical Licence No: 2/27/11/058 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRING - LINDLEY Data Type: Point Name: CALDERDALE & HUDDERSFIELD NHS TRUST Easting: 411400 Northing: 417900	Annual Volume (m ³): 24094 Max Daily Volume (m ³): 65.5 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1602m SW	Status: Active Licence No: NE/027/0011/018 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - WOODLAND MILL Data Type: Point Name: Wooltex UK Ltd Easting: 411097 Northing: 416494	Annual Volume (m ³): 164250 Max Daily Volume (m ³): 450 Original Application No: NPS/WR/031345 Original Start Date: 24/10/2017 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 16/07/2019 Version End Date: -
-	1873m S	Status: Historical Licence No: 2/27/11/036(G) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MILNSBRIDGE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411800 Northing: 416000	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 81.828 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1998 Version End Date: -



ID	Location	Details	
-	1935m NW	Status: Historical Licence No: 2/27/12/191 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - HOLYWELL GREEN Data Type: Point Name: BAIRSTOW Easting: 410250 Northing: 418870	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1935m NW	Status: Historical Licence No: 2/27/12/191 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING Data Type: Point Name: BAIRSTOW Easting: 410250 Northing: 418870	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 47 >](#)

ID	Location	Details	
-	1653m S	Status: Historical Licence No: 2/27/11/169 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: TRIBUTARY OF LONGWOOD BROOK Data Type: Point Name: EDDIE & BESSIE E FIRTH & JACQUELINE M & JOHN G WALKER Easting: 411400 Northing: 416300	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 350 Original Application No: - Original Start Date: 26/01/1983 Expiry Date: - Issue No: 100 Version Start Date: 20/04/1990 Version End Date: -



ID	Location	Details	
-	1802m SW	Status: Historical Licence No: 2/27/11/115 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CLAY WOOD BROOK/OAKSCAR RESERVOIR Data Type: Point Name: PARKWOOD MILLS CO LTD Easting: 410400 Northing: 416900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/04/2002 Version End Date: -
-	1856m SW	Status: Historical Licence No: 2/27/11/123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CLAY WOOD BROOK-PARKWOOD ROAD-LONGWOOD Data Type: Point Name: PARKWOOD MILLS CO LTD Easting: 410330 Northing: 416910	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 102 Version Start Date: 30/08/2002 Version End Date: -
-	1882m S	Status: Historical Licence No: 2/27/11/036(S) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411700 Northing: 416000	Annual Volume (m ³): 68190 Max Daily Volume (m ³): 273.669 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1998 Version End Date: -
-	1882m S	Status: Historical Licence No: 2/27/11/036(S) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - MILNSBRIDGE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411700 Northing: 416000	Annual Volume (m ³): 68190 Max Daily Volume (m ³): 273.669 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1998 Version End Date: -



ID	Location	Details	
-	1902m S	Status: Historical Licence No: 2/27/11/036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - MILNSBRIDGE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411717 Northing: 415978	Annual Volume (m ³): 68190 Max Daily Volume (m ³): 273.7 Original Application No: - Original Start Date: 25/06/2014 Expiry Date: - Issue No: 2 Version Start Date: 20/08/2014 Version End Date: -
-	1978m S	Status: Historical Licence No: 2/27/11/144 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 412100 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1980 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

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

1

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



Features are displayed on the Hydrology map on [page 54 >](#)

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 54 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Colne from River Holme to River Calder	GB104027062550	Colne and Holme	Aire and Calder

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 54 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1025m NE	River	Colne from River Holme to River Calder	GB104027062550 ↗	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 54](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.	GB40402G700400 ↗	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



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

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

Features are displayed on the Surface water flooding map on [page 60](#) >

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 Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

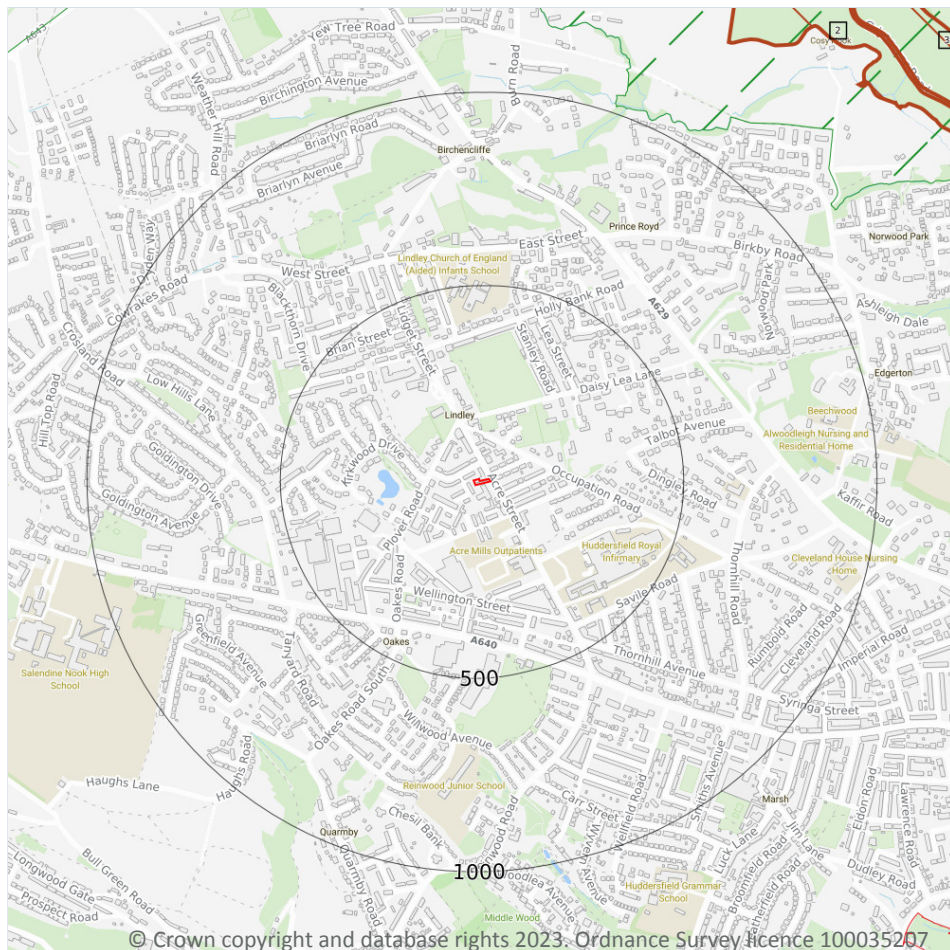
Negligible

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 62 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland
- ▨ Green Belt

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

1

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

Features are displayed on the Environmental designations map on [page 63 >](#)

ID	Location	Name	Data source
6	1571m SE	Gledholt Woods	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

3

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 63 >](#)

ID	Location	Name	Woodland Type
2	1289m NE	Grimescar Wood	Ancient Replanted Woodland
3	1417m NE	Grimescar Wood	Ancient Replanted Woodland
-	1528m N	Gernhill Wood	Ancient Replanted 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

3

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

Features are displayed on the Environmental designations map on [page 63](#) >

ID	Location	Name	Local Authority name
1	1017m N	South and West Yorkshire	Kirklees
-	1562m N	South and West Yorkshire	Calderdale
7	1607m NW	South and West Yorkshire	Kirklees

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.

