



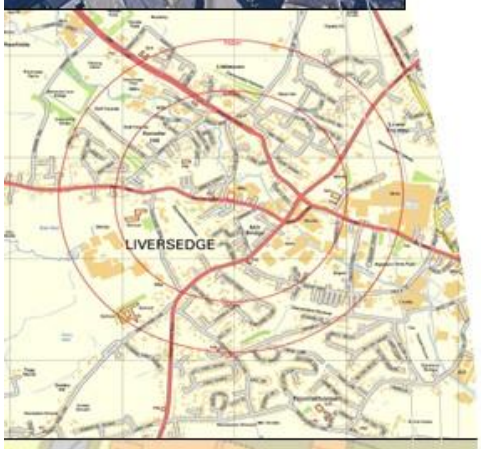



EARTH ENVIRONMENTAL
& GEOTECHNICAL
A Technics Group Company

Phase 1 GeoEnvironmental Desk Study

52 Halifax Road
Millbridge
Liversedge

On behalf of

Supa Shine Hand Car Wash Ltd

Earth Environmental & Geotechnical Ltd
Houldsworth Mill Business Centre
Houldsworth Street
Stockport
SK5 6DA

Tel : 01619756088

Email
headoffice@earthenvironmental.co.uk

www.earthenvironmental.co.uk

PHASE I GEOENVIRONMENTAL DESK STUDY

52 HALIFAX ROAD

MILLBRIDGE, LIVERSEDGE

ON BEHALF OF

SUPA SHINE HAND CAR WASH LTD

Earth Environmental & Geotechnical Ltd
Houldsworth Mill Business & Arts Centre
Houldsworth Street
Stockport
SK5 6DA

www.earthenvironmental.co.uk

Tel: 0161 975 6088

Report No. A7322/26/FDS **JUNE 2026**

Report Title:	**Phase I GeoEnvironmental Desk Study 52 Halifax Road, Millbridge, Liversedge**	
Report Reference:	**A7322/26/FDS**	
Client:	**Supa Shine Hand Car Wash Ltd**	
Issue Date:	**4th June 2026**	
Drafted By:	**Nathan McDonnell GeoEnvironmental Consultant**	
Reviewed By:	**Luke Glover Principal GeoEnvironmental Consultant**	
Authorised By:	**Graham Boultbee Associate Director**	

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1.0 INTRODUCTION

Appointment

1.1 Earth Environmental & Geotechnical Ltd has been commissioned by Novl Studio Ltd, on behalf of Supa Shine Hand Car Wash Ltd (the Client), to undertake a Phase I Environmental Desk Study for a proposed development at 52 Halifax Road, Millbridge, Liversedge, WF15 6JL.

1.2 It is understood that the client intends to construct an MOT testing bay, indoor valet bays and an office in the area where the existing storage containers and office are located on site.

1.3 A proposed development plan is presented in Figure 1, overleaf.

Objective

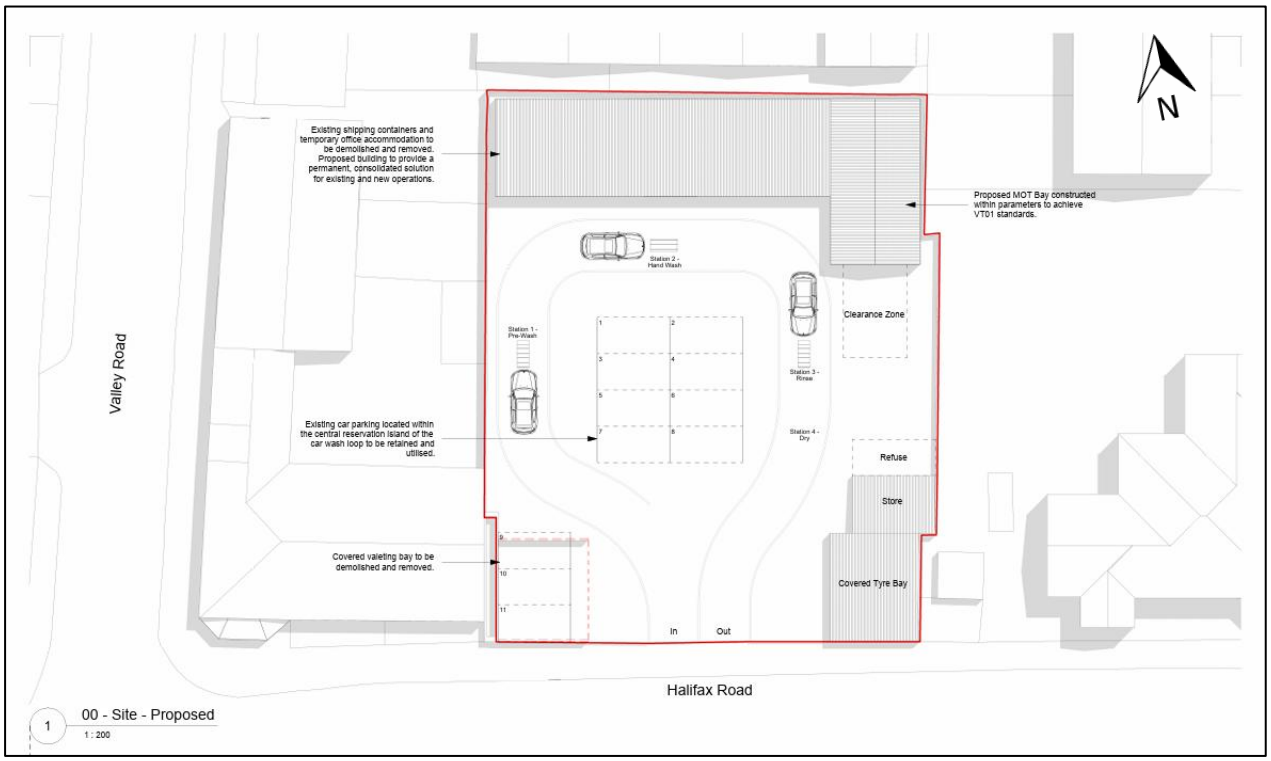
1.4 The purpose of the Desk Study is to collate available geological and environmental data for the site (and its environment) and provide a preliminary geotechnical and geo-environmental appraisal, with a site-specific conceptual model. This enables a preliminary assessment of geo-environmental risks to be undertaken and, if necessary, provides information for the design of a Phase 2 Ground Investigation.

Scope

1.5 The Phase I Environmental Desk Study comprises a site reconnaissance visit and a review of the following information sources, some of which were provided by the client.

- British Geological Survey online maps.
- Google Earth imagery.
- Environment Agency online mapping data.
- Historical Ordnance Survey maps.
- The site and surrounding areas' environmental, geological, and mining data are presented in the site-specific GroundSure Reports (Appendix 1).
- Coal Authority Interactive Viewer.
- Zetica UXO Online Interactive Viewer
- Kirklees Metropolitan Council Planning Portal.

Figure 1: Proposed Development Plan



2.0 SITE LOCATION AND DESCRIPTION

2.1 The site (0.11 hectares) is occupied land north of the A649 (Halifax Road), near the junction with Valley Road and approximately 200m from Liversedge Train Station.

2.2 The approximate National Grid Reference for the centre of the site is SE 20483 23810 (X: 420483, Y: 423810) and postcode WF15 6JL.

2.3 The surface topography of the site is generally level. The surrounding general area appears to slope gently to the east.

2.4 The site is covered by asphalt and concrete. The surrounding area comprises roads, residential and commercial buildings.

2.5 A concrete pad is located around the centre of the site in a horseshoe shape (see Figure 1). The concrete pad is approximately 32 meters in length and 9 meters in width. Three drains were observed on the west, north and east parts of the concrete pad.

2.6 There is no vegetation or areas of soft landscaping on the site.

2.7 Access to the site is gained via an entrance off the A649 along the southern boundary of the site. A small steel gate is present across the entrance.

2.8 The site is bounded by a steel gate along the southern entrance, with 2no. small single-story shelters on either side of the gate. The remainder of the boundaries comprises metal fencing, which divides the site from the surrounding properties.

2.9 The site is bordered by the A649 to the south. Residential buildings border the site to the west and east, while an industrial unit lies to the north.

2.10 General site photographs are shown in Figures 2 and 3 overleaf.

Site Utility Services

2.11 Site service plans have not been obtained for the site on behalf of the client. The status of all services should be checked before any development (including site investigation) commences.

Figure 2: Site Location Plan

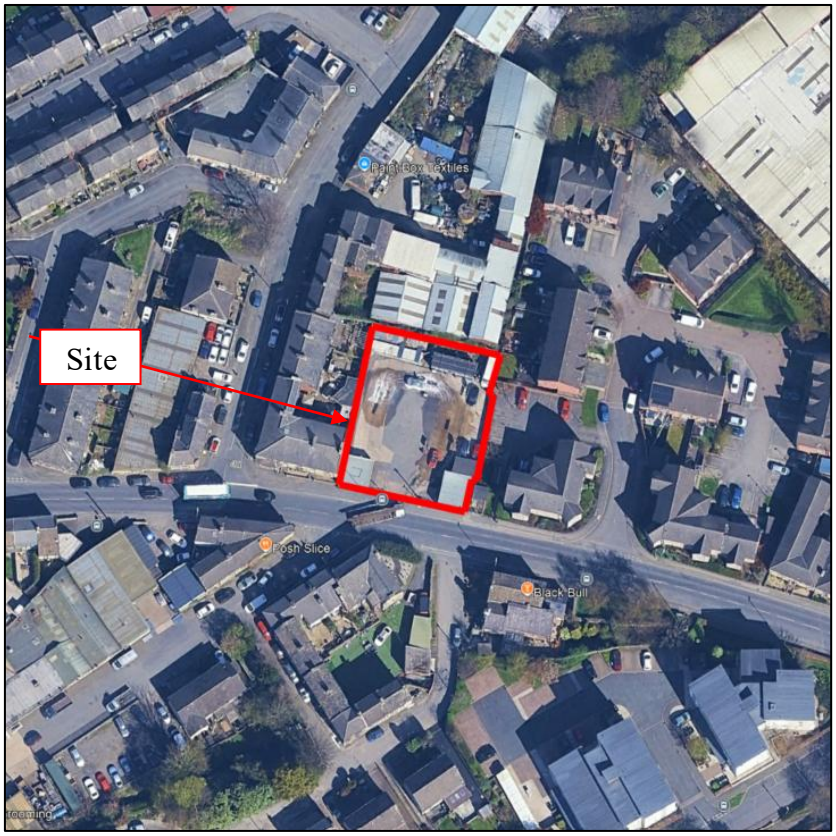


Figure 3: Site Photograph



3.0 ENVIRONMENTAL SETTING

3.1 The geology of the site is covered by British Geological Survey (BGS) online data and the site-specific GroundSure Enviro+Geo Insight report (Appendix 1).

3.2 Environmental conditions are covered by the Environment Agency (EA) and British Geological Survey (BGS) online data, and the site-specific GroundSure Enviro+Geo Insight report (Appendix 1).

Geology

3.3 The BGS records indicate that artificial deposits do not underlie the site.

3.4 The BGS records indicate that the site is partially underlain by Alluvium consisting of clay, sand and gravel. The BSG states, *'It is the unconsolidated detrital material deposited by a river, stream or other body of running water as a sorted or semi-sorted sediment in the bed of the stream or on its floodplain or delta, or as a cone or fan at the base of a mountain slope*.' The distribution of the superficial deposits is shown in Figure 4 below.

3.5 The bedrock geology beneath the site is shown to be of the Pennine Lower Coal Measures Formation, comprising *'Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.'* It should be noted that the BSG reports that 1m northwest of the site, the land is underlain by the Falhouse Rock - Sandstone unit with an inferred fault creating the contact.

3.6 There are 14no. records of linear features within 500m of the site boundary. The closest refers to an inferred fault 1m northwest.

3.7 There are no records of landslips within 500m of the site.

Figure 4: Superficial Deposits Plan



3.8 There are no borehole records identified within 250m of the site.

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

- Shrink / swell clays: Very Low
- Running sands: Low
- Compressible deposits: Moderate
- Collapsible deposits: Negligible
- Landslides: Very Low
- Ground dissolution of soluble rocks: Negligible

Hydrogeology and Hydrology

3.10 The site is underlain by superficial Alluvium (Clay, Sand, and Gravel) Deposits, which are classified by the Environment Agency (EA) as a Secondary A Aquifer, with an intergranular flow type and a very low to high permeability. The BGS states:

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.'*

3.11 The bedrock underlying the site, the Pennine Lower Coal Measures Formation, is classified by the Environment Agency (EA) as a Secondary A Aquifer with a well-connected fracture flow mechanism.

3.12 The groundwater vulnerability of the site has been classified as low for the superficial aquifers and medium for the bedrock aquifer. The soil leaching potential of the site is classified as low. The BGS states:

*'**High**' - Areas can 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 low permeability.*

3.13 The site is not located within an area vulnerable to soluble rock.

3.14 There are no groundwater abstraction license records within 2km of the site.

3.15 There are no surface water abstraction license records within 2km of the site.

3.16 There is no potable water abstraction license record within 2km of the site.

3.17 The site is not located within a Source Protection Zone.

3.18 The site is not located within 500m of a Source Protection Zone within a confined aquifer.

3.19 There are 6no. water network entries within 250m of the site. There are 5no. records starting at 32m south of the site for Tanhouse Beck, which is an inland river not influenced by standard tidal action. The remaining record refers to the Spen River located 64m to the north.

3.20 There are 2no. surface water features identified within 250m of the site. These refer to Tanhouse Beck, 32m to the south and the Spen River, 62m to the north.

3.21 There is 1no. record of a Water Framework Directive (WFD) surface water body located onsite. The record refers to Spen Beck from Source to River Calder, which are within the Aire and Calder management catchment and the Calder Lower operational catchment. The EA assigned a 'does not require assessment' chemical and a moderate ecological rating in 2022.

3.22 There is 1no. record of a Water Framework Directive (WFD) groundwater body located beneath the site. The record refers to the Aire & Calder Carb Limestone/ Millstone Grit/ Coal Measures, which had a poor chemical rating in 2019.

Ground Workings, Mining and Other Underground Workings

3.23 There are 31no. records of historical surface ground working features, identified within 250m of the site boundary. The closest feature is a reservoir 60m to the northeast, dating from 1892. The remaining records are for unspecified pits, ponds, and refuge heaps.

3.24 According to the BGS, there are 6no. records of a British Pit within 500m of the site. The records refer to Coal and Sandstone workings. The closest is Tanhouse Mill, 275m southwest of the site.

Mining and Other Underground Workings

3.25 The site is within an area recorded as being affected by underground coal mining. However, with reference to the Mining Remediation Authority Map Viewer, the site is not within a Development High Risk Area or an area of Probable Shallow Coal Mine Workings

3.26 There are no records of historical mineral planning areas within 500m of the site.

3.27 There are 26no. records for historical underground working features identified within 1km of the site. The nearest is a Colliery located 273m to the southwest.

3.28 There are 8no. records of a non-coal mining area located within 1km of the site. The record onsite refers to the Leeds/Bradford area for Iron Ore mining. The BGS states:

> *"Underground mine workings may have occurred in the past, or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions is unlikely and is at a level where they need not be considered."*

3.29 There are no records of brine areas, gypsum extraction, tin mining, or clay mining on the site.

3.30 There are no records of natural cavities within 500m of the site.

3.31 There are no records for mining cavities identified within 1km of the site.

Radon Potential

3.32 A Radon Affected Area, where less than 1-3% of properties are above the Action Level, is present along the western site boundary. The remainder of the site is not recorded as being within a Radon Affected Area. Therefore, no radon protection measures are required in any new structures.

Landfill & Waste Management Activity

3.33 There are no records for the current Environment Agency landfill records within 500m of the site.

3.34 There is 1no. record of a BGS/DoE non-operational landfill within 500m of the site. The record refers to Headlands Rd, Liversedge, located 415m to the southwest.

3.35 There is 1no. record of a historical landfill from the Local Authority and Historical Mapping records within 500m of the site. The record refers to a historical refuse tip located 347m to the southwest, identified in the 1971 mapping.

3.36 There are 2no. records of historic Environment Agency landfill sites within 500m of the site. The records refer to inert commercial waste sites located 331m south and 378m southwest of the site.

3.37 There are 13no. records of historical waste sites within 500m of the site. There is an on-site record from 2014 for a Taxi Office & Car Breakers Yard.

3.38 There are 5no. records of current or recently closed Environment Agency licensed waste sites within 500m of the site. The records refer to 3no. locations, Rawsons Scrapyard 299m east, Headlands Road Depot 415m southwest and RCC Autos 432m east of the site.

3.39 There are 56no. records of a waste treatment, transfer, or disposal site, within 500m of the site. The closest 27 records refer to The Log Yard, 33m-50m west of the site, which has multiple records for the use and disposal of waste.

Industrial Land Use Information

3.40 There are 202no. records of potentially contaminative historical land uses identified within 500m of the site. There are 3no. onsite records for unspecified works/industrial in 1892-1931, 1948 and 1974-1988. There are records for a mill pond 60m northeast and unspecified works 75m south and 77m north. The remaining records beyond 100m of the site boundary include cuttings, unspecified works, railway sidings, railway buildings, refuge heaps and electricity substations.

3.41 There are 72no. records of historical tanks identified within 500m of the site. The closest record is for a tank located 22m to the north.

3.42 There are 35no. records of historical energy features identified within 500m of the site. The closest record refers to an electrical substation, recorded from 1956 to 1991, located 30m to the east.

3.43 There is no record of historical petrol stations within 500m of the site.

3.44 There is 1no. record for current petrol or fuel sites within 500m of the site. The record refers to an active petrol station located 185m to the northeast.

3.45 There are 20no. records of historical garage and motor vehicle repair sites identified within 500m of the site. The closest record refers to a garage in 1970 located 139m to the east

3.46 There are 29no. records of recent industrial land uses within 250m of the site. There are 2no. onsite records for Supashine, a vehicle cleaning service, and an electricity substation.

3.47 There are no historical military land use records within 500m of the site.

3.48 There are no National Grid high voltage underground electricity transmission cables within 500m of the site.

3.49 There are no National Grid high-pressure gas transmission pipelines within 500m of the site.

3.50 There are 42no. historical railway and tunnel features identified within 250m of the site. The closest site is for railway sidings located 175m to the southwest.

3.51 There are 4no. historical railway lines identified within 250m of the site. The records refer to an abandoned railway 204-208m southwest of the site.

3.52 There are no current active railway line records identified within 250m of the site.

3.53 There are no underground railway lines or tunnels identified within 250m of the site.

3.54 The site is not within 500m of the route of the High Speed 2 rail project.

Environmental Permits, Incidents, and Registers

3.55 The Groundsure Report includes records of environmental permits, incidents, and registers within 500m of the site, which are summarised in Table 1 below.

Table 1: Environmental Permits, Incidents, and Registers within 500m of the Site

Permit/Incident/Register	Number
Sites Determined as Contaminated Land under Part 2a EPA 1990	0
Dangerous or Hazardous (COMAH and NIHHS) Sites	0
Regulated Explosive Sites	0
Hazardous Substance Storage/usage	0
Historical Licensed Industrial Activities (IPC)	0
Part A (1) and IPPC Authorised Activities	0
Part A (2) and Part B Activities and Enforcements	**6**
Category 3 or 4 Radioactive Substance Authorisations	0
Licensed Discharge Consents to Controlled Waters	**1**
Pollutant Release to Surface Waters (Red List)	0
Pollutant Release to Public Sewer	**1**
List 1 Dangerous Substances Inventory Sites	0

Permit/Incident/Register	Number
List 2 Dangerous Substances Inventory Sites	0
Substantiated Pollution Incidents	**19**
Pollution Inventory Substances	0
Pollution Inventory Waste Transfer	0
Pollution Radioactive Wastes	0

3.56 There are 6no. records of Licensed pollutant release (Part A(2)/B) located within 500m of the site. The closest record refers to a licence to unload petrol into storage, located 188m northeast.

3.57 There is 1no. record of a Licensed Discharge to Controlled Waters located within 500m of the site. The record refers to unspecified trade discharges 435m northeast that were revoked in 1992.

3.58 There is 1no. record of a Licensed Discharge to Controlled Waters located within 500m of the site. The record refers to Spen Valley Electroplating 199m to the east.

3.59 There are 19no. records of Sustained Pollution Incidents located within 500m of the site. The closest record relates to diesel pollution located 18m north of the site. The incident was recorded in 2002 and determined to have no impact on land and air quality, with only a minor impact on water.

Environmentally Sensitive Sites

3.60 There is no record for a Site of Specific Scientific Interest (SSSI) located within 2km.

3.61 There is no record of Conserved wetland sites (Ramsar Sites) within 2km of the site.

3.62 There are no records of Special Areas of Conservation (SAC) within 2km of the site.

3.63 There are no records of Local Natural Reserves within 2km of the site.

3.64 There are no records of a Designated Ancient Woodland within 2km of the site.

3.65 There are no records of a Biosphere Reserves within 2km of the site.

3.66 There are no records of a Forest Park within 2km of the site.

3.67 There are no records of a Marine Conservation Zones within 2km of the site.

3.68 The site is not recorded to lie within a Green Belt area.

3.69 The site is within a Nitrate Vulnerable Zone. The zone refers to the 'Spen Beck from Source to River Calder NVZ'.

Ecology

3.70 An ecological assessment of the site falls outside the brief of this report. Where considered necessary, advice should be sought from an ecological specialist in this respect.

3.71 The land on the site is classified as urban, non-agricultural land.

3.72 There are no further records for agricultural or habitat designation on the site.

Archaeology

3.73 An archaeological assessment falls outside the scope of this report. Where considered necessary, advice should be sought from an archaeological specialist in this respect.

3.74 There is 1no. record for Listed Buildings within 250m of the site. The record refers to Christ Church, 237m northwest of the site.

3.75 There are no world heritage sites, areas of outstanding natural beauty, conservation areas, national parks, scheduled ancient monuments, or registered parks and gardens within 250m of the site.

Potential Flood Risks

3.76 Detailed assessment of flood risks is outside the scope of this report. However, the site does not lie within an Environment Agency Zone 2 or Zone 3 floodplain, but does lie within 10m of Zone 2 and 14m southeast of a Zone 3.

3.77 There are 3no. records of the risk of flooding from rivers and sea (RoFRaS) within 50m of the site. The onsite flood risk category is 'NA'.

3.78 There are 5no. records of historical flood events within 250m of the site. The records refer to 2 separate flood incidents, one in 2020 occurring 57m-147m to the north and the other in 2021 occurring 212m north of the site.

3.79 There is 1no. record of flood defences within 250m of the site. The record refers to a defence 202m to the north.

3.80 There are no records for areas benefitting from flood defences within 250m of the site.

3.81 There are no flood storage areas within 250m of the site.

3.82 The highest risk of surface water flooding occurring on-site is for a 1 in 1000 year, 0.1m - 0.3m event.

3.83 The highest risk of groundwater flooding occurring on-site is low.

Unexploded Ordnance

3.84 The online Zetica UXO map shows the site within a low-risk zone.

4.0 SITE HISTORY

4.1 The historical development of the site has been determined by reference to historical plans and Google Earth imagery. Information in the historical mapping study has been predominantly limited to the site or within 100m of the site to focus on the most directly relevant information. Beyond this radius, only information deemed relevant will be referenced. Each map or photograph represents a snapshot of the site and its environment at the date of the survey. Any changes that occur at other times may not have been recorded on the maps and could represent an unidentified hazard to the site.

4.2 Only selected maps with a clear view of the site and surrounding area have been used; 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.

4.3 The earliest available historical mapping with a clear view of the site dates to 1890. The site history is summarised in Tables 2 and 3, below, followed by selected extracts from maps and aerial photographs in Figures 5 to 8.

Table 2: Summary of Site History

Date	Scale	On-Site History	Surrounding Land Use History
1890	1:1,000	The site contains part of a developed industrial complex associated with the South Holme Works in the northeast corner. Within the boundary are industrial buildings and yards, including a structure labelled "Springwell Maltkiln".	The site lies immediately adjacent to additional factory buildings and service areas. Immediately east are the South Holme Works buildings and yards. Dam Head Chemical Works 20m north. A Mill Pond and Spen River lie 80m northeast. Terraced housing and streets surround the industrial area to the west and south.
1892 1894	1:10,560 1:2,500	There is no significant change compared to the previous map.	Chemical Works are located approximately 80m south of the site, with iron works, quarry and railway infrastructure approximately 150m southwest. Land to the north appears less developed. Open ground and fields remain to the north and northeast beyond the Spen River.
1907	1:2,500	A small unlabelled structure is present in the southeast corner.	Tramway constructed on Station Lane along the southern site boundary. Station built 250m west of the site. Tanks are labelled 30m north. Expansion of terraced housing 100m to the west.
1922 1933	1:2,500	Industrial building on site labelled "Malthouse"	More industrial buildings built in the general area. Crown Steel Works appears 80m to the east. A soap Works 100m to the north.
1938	1:2,500	There is no significant change compared to the previous map.	Station Road has been renamed "Halifax Road", and the tramline has been dismantled. An additional industrial building adjacent to the northern site boundary.
1956 1957 1958	1:1,250 1:1,250 1:2,500	Building on site now labelled as a warehouse.	There is no significant change compared to the previous map.

Date	Scale	On-Site History	Surrounding Land Use History
1966-1967	1:10,560	There is no significant change compared to the previous map.	There is no significant change compared to the previous map.
1970-1972	1:1,250	Extension added to industrial buildings as they are incorporated into "Oil and Soap Works".	Industrial works directly to the east of the site have expanded.
1972-1977 1979	1:1,250 1:1,250	Small extension to the works in 1979.	There is no significant change compared to the previous map.
1985-1990 1986-1991	1:1,250 1:1,250	All buildings on the site have been demolished, leaving a large open area.	The Mill Pond (reservoir) 80m to the northeast has now been filled in. Works remain along the northern boundary of the site ~1990.
2001 2003	1:10,000 1:1,250	There is no significant change compared to the previous map.	An electrical substation was built 5m to the east of the site.
2010 2015 2025	1:10,000 1:10,000 1:10,000	There is no significant change compared to the previous map.	There is no significant change compared to the previous map.

Table 3: Summary of Site History from Aerial Photographs

Date	On-Site History	Surrounding Land Use History
1999	The site is undeveloped, with some areas of hard standing, low vegetation and scattered waste.	Industrial works border the site to the north, with waste and a tank present. To the east, a warehouse runs along the edge of the site. To the west and south, there are residential terraced houses with some industrial works to the southwest.
2012	The site has been cleared and a horseshoe-shaped area of hard standing with 3no. Drains occupy the centre of the site	The warehouse to the east has been demolished and replaced with residential housing. Some residential houses have been demolished to the southeast.
2018	The site is now being used as a car wash with 3 containers, and 2 small, covered areas present on site.	There is no significant change compared to the previous photograph.
2021	There is no significant change compared to the previous photograph.	A care home has been developed to the southeast on land that was previously residential housing.

By 1890, the site was part of a developed industrial area with a building and yard present. The site formed part of a wider industrial area. Early mapping shows industrial buildings and yards associated with the South Holme Works. The wider area was a mix of residential and industrial buildings. By 1972, the site had become incorporated within an oil and soap works, with extensions added to the industrial buildings.

The surrounding area was historically mixed industrial and residential land uses. Adjacent and nearby features included chemical works, steel works, leather works, iron works, railway infrastructure, electrical substations, and dense terraced housing. A mill pond/reservoir was also present to the northeast of the site until 1985-1990, when it appears to have been infilled.

The site remained in industrial use until the mid-1980's, when all on-site buildings were demolished, leaving it largely vacant. Recent mapping and photos show the site has been used as a car valeting business since 2010 to the present day.

Figure 5 OS Map Extract 1890

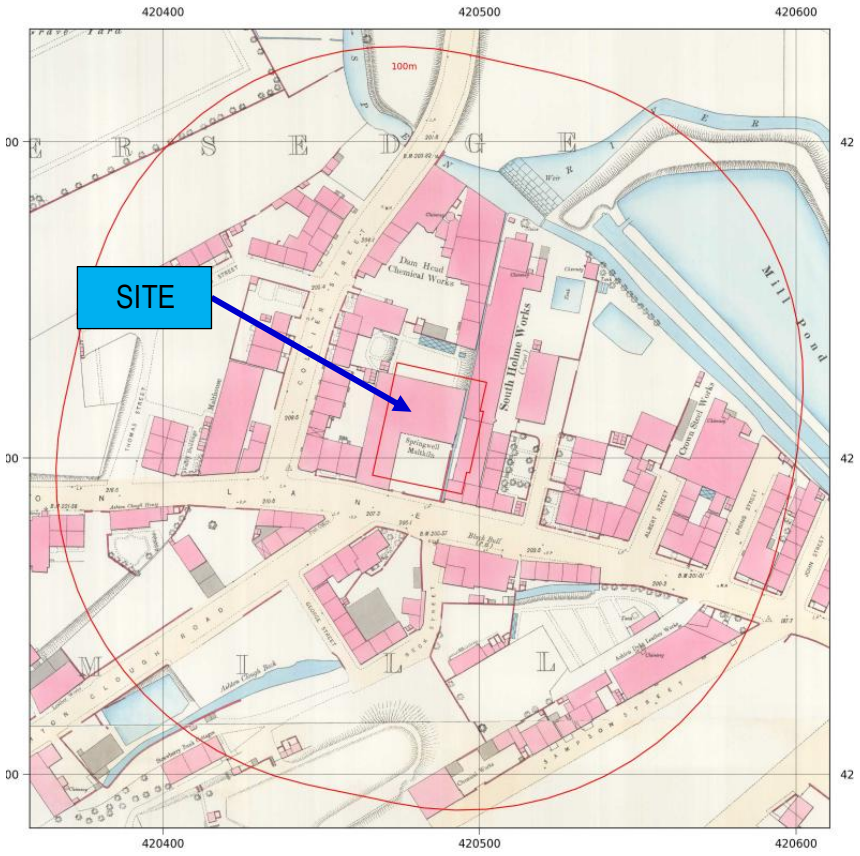


Figure 6 OS Map Extract 1970-1972



Figure 7 OS Map Extract 2003

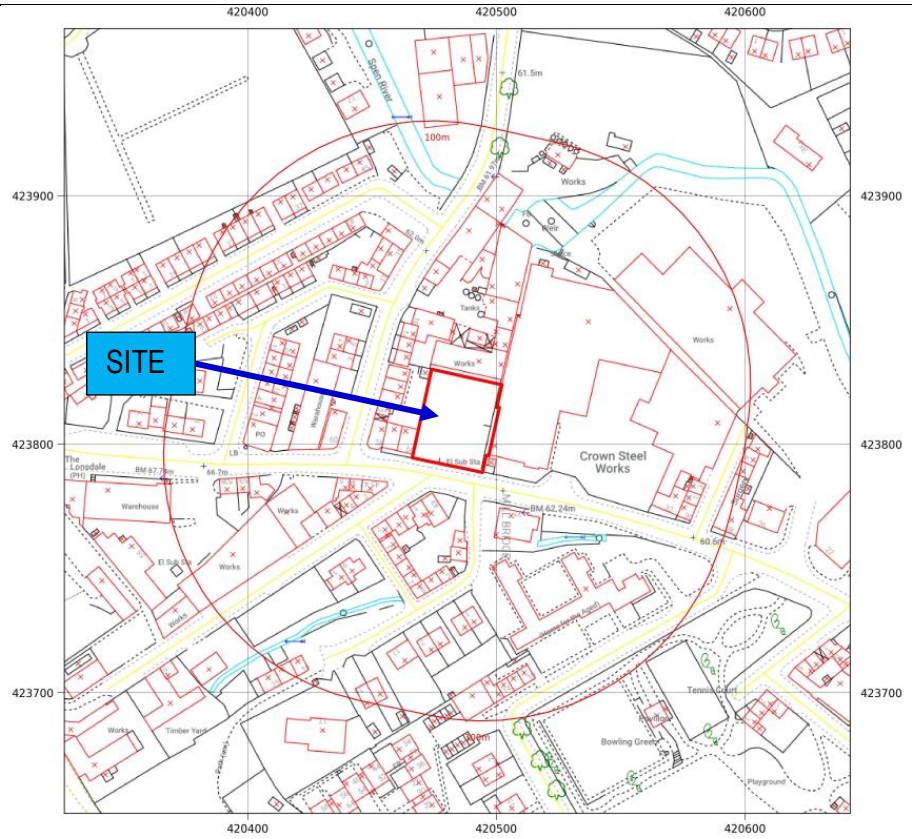
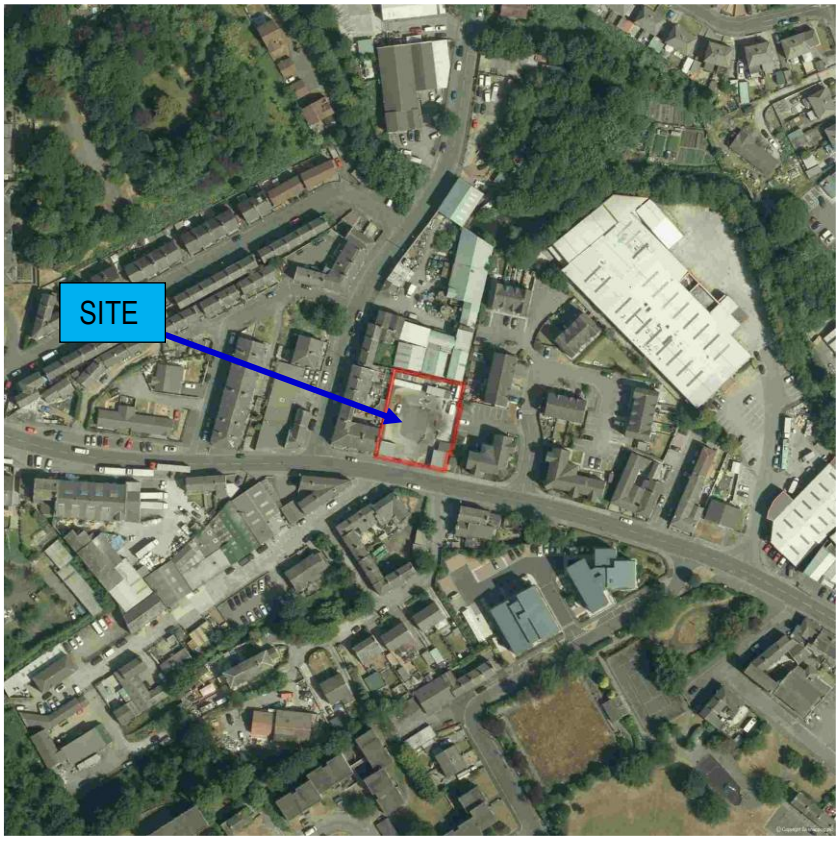


Figure 8 Aerial Photograph 2018



5.0 SITE WALKOVER SURVEY

5.1 A walkover survey was completed on 8th May 2026.

5.2 The photographs and notes from this survey are appended to this report as Appendix 2 and Appendix 3, respectively. The site is understood to comprise the area of the proposed development, which is located within a large field. A plan of key features is shown in Figure 9.

5.3 The surface topography of the site is generally level. The surrounding area is also generally level, although it slopes towards the east.

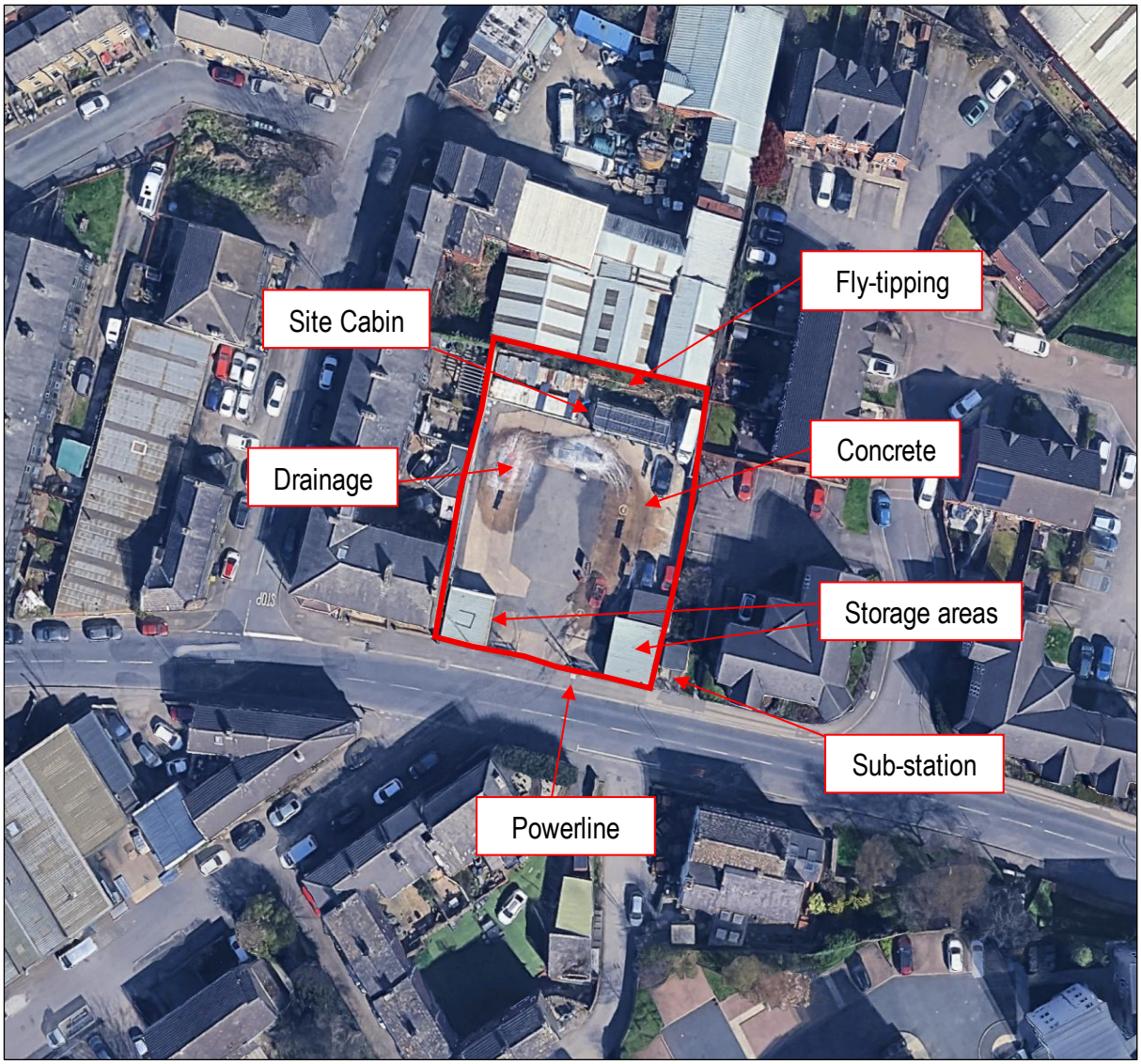
5.4 The site is covered by Made Ground, comprising concrete hardstanding. The site is predominantly used for commercial car washing. Several areas contain sorted materials, including tyres and consumables associated with the car washing operations. Drainage systems are present in the western part of the site. Mature bushes and trees are not present within the site boundary but are located immediately to the north-west, beyond the wooden fence and in close proximity to the residential area. Site cabins are located in the northern part of the site. Fly-tipped materials, largely comprising broken brick, rebar, metal sheeting, burnt materials and piping, are located to the north of the cabins. Broken-down trees and bushes are present to the north-east of the site boundary.

5.5 Access to the site is gained via an entrance off Halifax Road on the southern boundary. A power line and associated sub-station are present parallel to Halifax Road, to the south of the site, approximately 3m east of the site entrance.

5.6 The site is bounded by a steel gate at the southern entrance. Wooden fencing is present along the western and eastern boundaries, beyond which lie residential areas. An industrial building is located immediately beyond the northern site boundary.

5.7 The surrounding area generally comprises mixed industrial, commercial and residential land uses, with Halifax Road located immediately adjacent to the southern boundary. The site is bordered by Halifax Road to the south and an electrical sub-station to the immediate south-east. The wider field extends to the north and east beyond the site boundaries. Residential areas lie immediately to the east and west, with associated car parking areas. Valley Road lies further to the east. Land to the north is predominantly industrial.

Figure 9 Site Features Plan



6.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Introduction

6.1 The following paragraphs outline a Preliminary Risk Assessment (PRA) for the site based on the above desk study information as defined by the Land Contamination Risk Management Environment Agency, July 2023.

6.2 Table 6 provides a Preliminary Conceptual Model (PCM) which considers the source-pathway-receptor linkages present alongside the likelihood, severity, and risk level as defined within Table 4 and Table 5 below. The assessment of probability, a modified risk table, and specific consequence definitions are based on CIRIA C552 and Land Contamination Risk Management Environment Agency, July 2023.

6.3 Table 6 considers whether a pollution linkage is potentially present and provides a preliminary qualitative assessment of risk based on the information currently available. Where a possible linkage is identified, it does not necessarily mean that a significant risk exists, but indicates that further information is required through appropriate site investigation to substantiate the conceptual model.

6.4 The PCM/PRA is based on a commercial end use.

Table 4: Consequence, Probability and Risk

Probability	Consequence,	Risk
High Likelihood- There is a pollution linkage, and an event either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution	Very High – acute risk to the human health likely to result in significant harm. Risk of severe or irreversible effects on ground/surface water quality. Catastrophic damage to buildings/property.	Very High – there is a high potential that the source-pathway-receptor scenarios may give rise to harm to human health, or the environment, and remedial action is likely to be required.
Likely – there is a pollution linkage, and all the elements are present, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.	High – Severe or irreversible effect on human health. Temporary severe or irreversible effect on ground/surface water quality. Reduction of water quality rendering groundwater or surface water unfit to drink and/or a substantial adverse impact on groundwater-dependent environmental receptors.	High – it is likely that the source-pathway-receptor scenarios may give rise to an impact on human health or the environment, which may require remediation and/or control measures to mitigate risks.
Low likelihood– there is a pollutant linkage, and circumstances are possible for an event could occur. However, it is by no means certain that even over a longer period such an event would take place, and it is less likely in the shorter term.	Moderate – Long-term or short-term moderate effect on human health. Moderate effect on ground/surface water quality, reversible with time. Reduced reliability of a supply at a groundwater or surface water abstraction source	Moderate – it is possible that the source-pathway-receptor scenarios may give rise to an impact on human health or the environment; however, it is either relatively unlikely that such would be severe, or if any harm were to occur, it is more likely that harm would be mild.
Unlikely – there is a pollution linkage, but circumstances are such that it is doubtful that an event would occur even in the very long term.	Low – non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc.) Slight effect on ground/surface water quality, reversible with time. Marginal reduced reliability of a supply at a groundwater or surface water abstraction source.	Low – it is possible that harm could arise at the source; however, likely, this would at worst be mild.
		Very Low – It is unlikely that the source-pathway-receptor scenarios will have an impact on human health or the environment.

Table 5: Estimation of the Level of Risk by Comparison of Consequence and Probability

		Consequence			
		High	**Moderate**	**Low**	**Very low**
Probability	**High Likelihood**	Very High	High risk	Moderate risk	Moderate to low risk
	Likely	High risk	Moderate risk	Moderate to low risk	Low risk
	Low Likelihood	Moderate risk	Moderate to low risk	Low risk	Very low risk
	Unlikely	Moderate to low risk	Low risk	Very low risk	Very low risk

Potential Sources

6.5 The potential sources of contamination on the site are:

- Made ground from former industrial site uses.
- Asbestos from the construction and demolition of historical buildings.
- Ground gas from the infilled mill pond during the circa 1990 and potentially deep made ground due to historical demolition on the site.
- Coal mining gas risk from bedrock of the Pennine Lower Coal Measures
- The substation located adjacent to the site is not considered to be a source of PCBs, due to its construction after the ban on the use of PCBs in new electrical equipment.
- Volatiles may be present due to the historical site usage as an oil and soap works.

Potential Receptors

6.6 The following receptors have been considered for the construction and operational stages of the proposed redevelopment.

- Current site users;
- Adjacent land users;
- Future land users;
- Construction workers during site development works;
- Surface water features (Tanhouse Beck, Spen River)
- Ground Water (Secondary A Aquifer)

Potential Pathways

6.7 The following pathways have been considered for the construction and operational stages of the proposed redevelopment.

- Dermal contact, ingestion, and inhalation pathways of potentially contaminated soils.
- Downward vertical migration of leachate to shallow groundwater.
- Lateral Migration to nearby surface water features
- Vertical or lateral migration of ground gas.

Table 6: Preliminary Conceptual Model

Source	Pathway	Receptor	Probability	Consequence	Risk	Comment
Made Ground (Heavy Metals, PAH, TPH, BTEX)	Dermal contact, ingestion, and inhalation of soil dust	Current Site Users	Unlikely	Moderate	Low	The site is currently occupied by a car valeting service with hardcover across the site. Therefore, there is limited potential for direct contact between contaminated soils and receptors. The risk is thus considered to be **LOW.**
		Adjacent land users	Unlikely	Low	Low	The potential for lateral migration of significant contamination is considered to be unlikely. The risk to off-site land users is considered low**.** Usual dust control measures should be implemented as part of good site working practices during construction to reduce dust generation.
		Future land users	Unlikely	Low	Low	There are no significant pathways for contamination, given that the current and proposed development involves no soft landscaping. Therefore, contact with soil will be limited. The future end use will be commercial, an MOT garage, representing a lower-risk site usage. The risk to future site users via direct exposure is considered to be **LOW.**
		Construction Workers	Likely	Low	Moderate to Low	Construction workers are unlikely to be exposed to potentially contaminated materials during construction works; however, the exposure duration will be short-term only. Assuming appropriate health and safety measures are adopted (in line with CDM and other relevant health and safety guidance), a **LOW** risk to construction workers is anticipated.
	Downward vertical migration of leachate to shallow groundwater	Groundwater within the Underlying Aquifer	Low Likelihood	Moderate	Moderate to Low	A potential historical source of mobile contaminants has been identified on site. The superficial groundwater vulnerability is low, and the bedrock groundwater vulnerability is medium. There are no nearby groundwater abstraction licenses. The risk to groundwater is therefore considered **MODERATE to LOW.**
	Lateral migration in surface waters	Nearby Surface water features	Low Likelihood	Moderate	Moderate to Low	There are 2no. surface water features nearby and potential for mobile sources of contaminants on the site. Lateral surface migration may occur below the site, and granular superficial deposits are likely to be present. Therefore, the risk to surface waters is considered **MODERATE to LOW.**
	Vertical or lateral migration of ground gas	Current Site Users	Unlikely	Moderate	Low	The site is currently occupied by a car valeting service with hardcover across the site. The risk to current site users (commercial) from ground gas is therefore considered to be **LOW.**
		Adjacent land users	Low Likelihood	Moderate	Moderate to Low	Due to the potential for deep-made ground at the site. There is a potential source of ground gas to adjacent land users.

Source	Pathway	Receptor	Probability	Consequence	Risk	Comment
						Therefore, the risk to adjacent site users from ground gas is considered **MODERATE to LOW.**
		Future land users	Low Likelihood	Moderate	Moderate to Low	The largest source risk for ground gas is the infilled Mill Pond, 60m northeast of the site and the underground coal measures. Therefore, there is a risk of the ground gas to future site users; however, given the age of the infilling, the risk is reduced. Thus, the risk is considered **MODERATE to LOW.**
		Construction Workers	Low Likelihood	Moderate	Moderate to Low	Given the site's history, deep-made ground is likely to be anticipated. Construction workers may be exposed to ground gas / depleted oxygen conditions in excavations; however, the exposure will be short-term. The risk to construction workers from ground gas is considered **MODERATE to LOW.**
Asbestos Containing Material (ACM)		Current Site Users	Unlikely	Moderate	Low	Given the site history, there is potential for asbestos to be present within the soils on the site. Asbestos is only harmful when disturbed, and the site is currently covered with hardstanding. The risk to current site users is considered to be **LOW**.
		Adjacent land users	Low Likelihood	Moderate	Moderate to Low	No ACM was observed during the site walkover. Disturbance of soil during the construction phase may allow fibres to become airborne if they are present. The risk is considered to be **MODERATE to LOW.**
		Future land users	Unlikely	Moderate	Low	Given the commercial end use and the proposed covering of hardstanding across the site (breaking the pollutant linkage), the risk is considered **LOW.**
		Construction Workers	Low Likelihood	Moderate	Moderate to Low	Given the site history, there is potential for asbestos to be present within the soils on the site. Therefore, there is potential that construction workers could be exposed to asbestos in soils during the construction phase. Following good building practices will help mitigate risks. The risk is considered **MODERATE to LOW.**

7.0 GEOTECHNICAL HAZARDS ASSOCIATED WITH THE DEVELOPMENT

7.1 In addition to the environmental hazards, there are also geotechnical hazards associated with the stability of the ground, including load-bearing capacity, slope stability and effects of ground mining activities. Local Authorities follow NPPF (2021), which requires that a site be suitable for its new use, taking into account ground conditions and land instability, including from natural hazards to former activities such as mining. A summary of the geotechnical hazards and geotechnical considerations is provided below in Tables 7 and 8, respectively.

Table 7: Summary of Geotechnical Hazards

Geohazards:	
Highly Compressible Ground	Moderate
Collapsible Soils	Very Low
Swelling Clay	Very Low
Running Sand	Low
Ground Dissolution	Negligible
Landslip	Very low
Mining & Quarrying	No mining or quarrying is recorded as taking place on site. The site does not lie within a Coal Authority Development High Risk Area; however, there are recorded mining and high-risk zones surrounding the site.

Table 8: Summary of Geotechnical Considerations

Geotechnical Design Considerations	
Site Clearance	Existing containers will need to be removed from the site, as well as a small covered area in the southeast corner.
Trees	There are trees on the adjacent land to the site on the west.
Existing Buildings/Obstructions	There are 4 temporary buildings within the development area. Historical structures may cause obstructions during excavation work, if below ground features have been left in-situ.
Foundations	The depth and type of proposed foundations would depend on the ground conditions present on site. There are no artificial deposit records underlying the proposed development area. The proposed development is underlain by Alluvium-Clay, Sand and Gravel and the Pennine Lower Coal Measures Formation. Shallow foundations may be possible, although a piled foundation may also be necessary, due to the potential for deep made ground.
Floor Slabs	A ground-bearing floor slab is not anticipated to be suitable on the prepared formation level, due to the likely made ground below the site.
Groundwater	Groundwater conditions are not known at this stage. For more detailed knowledge of the groundwater regime, an intrusive geotechnical investigation would be needed. However, it is recorded that the site is underlain by [Secondary A aquifer]. The highest risk of groundwater flooding on the site is recorded as low.
Soakaways	Soakaways are not considered to be feasible on the site, based on the underlying geology and potential for deep made ground.
Earthworks	Significant earthworks are considered unlikely at this site.
Slopes	The site has been observed to be generally flat.
Retaining Walls	It is unlikely that retaining walls will be required.
Chemically aggressive ground conditions	An intrusive geotechnical investigation would be necessary to confirm this at the specified development location.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 By 1890, the site was part of a developed industrial area with a building and yard present. The site formed part of a wider industrial area. Early mapping shows industrial buildings and yards associated with the South Holme Works. By 1972 the site had become incorporated within an oil and soap works, with extensions added to the industrial buildings. The site remained in industrial use until the mid-1980's, when all buildings were demolished. The site has been used as a car valeting business since 2010 to the present day.

8.2 The overall risk from soil contamination to commercial end users is concluded to be **LOW.** The risk to construction workers is also concluded to be **MODERATE to LOW**.

8.3 Due to the heavy industrial nature of the area, there are 202no. records of potentially contaminative historical land uses identified within 500m of the site.

8.4 There are 3no. onsite records for an unspecified works/industrial in 1892-1931, 1948 and 1974-1988.

8.5 There was a historical Mill Pond/reservoir 60m northeast, which has now been drained.

8.6 There are 2no. surface water features identified. Tanhouse Beck 32m to the south and the Spen River 62m to the north.

8.7 Both superficial and bedrock aquifers are classified as Secondary A with a low groundwater vulnerability recorded within the superficial deposits and medium in the bedrock.

8.8 No mining or quarrying is recorded as taking place on site. The site does not lie within a Coal Authority Development High Risk Area; however, there is recorded mining activity and high-risk zones in the surrounding area.

8.9 The risk to controlled waters is concluded to be **MODERATE to LOW,** due to potentially mobile contaminants below the site.

8.10 Due to the historically infilled Mill Pond/reservoirs approximately 60m to the northeast of the site, and potential coal mine gas below the site. The overall risk from ground gas to end users is considered to be **MODERATE to LOW.**

8.11 The site does not lie within a radon-affected area, and therefore radon protection measures are not required for any new structures.

8.12 The site lies within an area of **LOW RISK** of flooding.

8.13 The site lies within an area of **LOW RISK** of UXOs.

8.14 Foundation loadings on shallow foundations may be suitable, but further investigation will be required to confirm site conditions. Due to the site history, variable made ground deposits may be present on site.

8.15 Ground bearing slabs are unlikely to be feasible due to the likely presence of made ground, but further investigation will be required to confirm site conditions.

8.16 Soakaways are unlikely to be feasible on the site.

Recommendations

8.17 A further intrusive investigation should be undertaken to establish geotechnical parameters for the design of foundations, floor slabs for the proposed new structures and the surrounding area.

8.18 As part of the geotechnical investigation, it is recommended that samples of soil be recovered for contamination testing to assess the condition of the soils on the site, with a focus on the area of the proposed structures. This will allow for a more detailed assessment of the risk to future site users, construction workers, adjacent site users, and allow for an assessment of potential waste soil for off-site disposal.

8.19 Ground gas and water monitoring wells should be installed, with ground gas monitoring and groundwater sampling undertaken. Thus, allowing a more detailed assessment of the ground gas risk at the site and risk to nearby surface water features.

APPENDIX 1

GROUNDSURE REPORTS

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

52, HALIFAX ROAD, MILLBRIDGE, LIVERSEDGE, KIRKLEES, WF15 6JL

Order Details

Date: 08/05/2026

Your ref: A7322/NM/01

Our Ref: GS-DMP-9NJ-DWF-5HD

Site Details

Location: 420484 423809

Area: 0.11 ha

Authority: Kirklees Council ↗

Site plan



Quick Links

Summary of findings p. 2 >

OS MasterMap site plan p.13 >

Aerial image p. 9 >

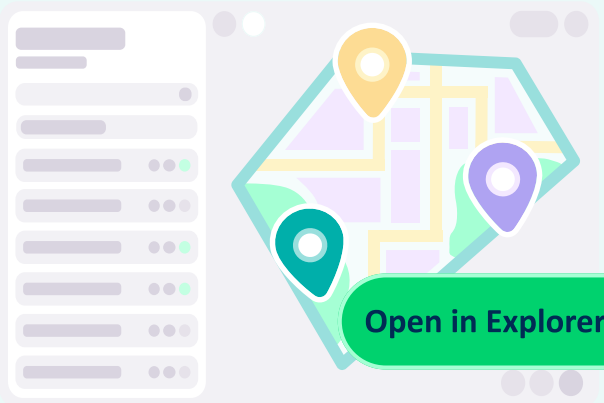
Insight User Guide ↗

Open this site in Explorer!

Access the data now in our interactive workspace.

- Map and interpret 130+ datasets across 170 years
- Generate insights and visuals quickly
- Revisit and collaborate with your team

Access to Groundsure Explorer requires an Insights account.
12 months access begins at purchase.



Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	3	0	43	156	-
22 >	1.2 >	Historical tanks >	0	22	19	31	-
25 >	1.3 >	Historical energy features >	0	5	3	27	-
26	1.4	Historical petrol stations	0	0	0	0	-
27 >	1.5 >	Historical garages >	0	0	4	16	-
28	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
29 >	2.1 >	Historical industrial land uses >	7	0	63	231	-
40 >	2.2 >	Historical tanks >	0	37	36	45	-
45 >	2.3 >	Historical energy features >	0	5	17	62	-
48	2.4	Historical petrol stations	0	0	0	0	-
48 >	2.5 >	Historical garages >	0	0	4	21	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
50	3.1	Active or recent landfill	0	0	0	0	-
50 >	3.2 >	Historical landfill (BGS records) >	0	0	0	1	-
51 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	1	-
51 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
52 >	3.5 >	Historical waste sites >	1	0	2	10	-
54 >	3.6 >	Licensed waste sites >	0	0	0	5	-
55 >	3.7 >	Waste exemptions >	0	28	2	26	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
61 >	4.1 >	Recent industrial land uses >	2	2	25	-	-
63 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	0	1	0	-	-
64 >	4.3 >	Current or recent petrol stations >	0	0	1	0	-
64	4.4	Electricity cables	0	0	0	0	-
64	4.5	Gas pipelines	0	0	0	0	-

64	4.6	Sites determined as Contaminated Land	0	0	0	0	-
65	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
65	4.8	Regulated explosive sites	0	0	0	0	-
65	4.9	Hazardous substance storage/usage	0	0	0	0	-
65	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
65	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
66 >	**4.12 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	1	5	-
67	4.13	Radioactive Substance Authorisations	0	0	0	0	-
67 >	**4.14 >**	**Licensed Discharges to controlled waters >**	0	0	0	1	-
67	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
67 >	**4.16 >**	**Pollutant release to public sewer >**	0	0	1	0	-
68	4.17	List 1 Dangerous Substances	0	0	0	0	-
68	4.18	List 2 Dangerous Substances	0	0	0	0	-
68 >	**4.19 >**	**Pollution Incidents (EA/NRW) >**	0	1	2	16	-
70	4.20	Pollution inventory substances	0	0	0	0	-
71	4.21	Pollution inventory waste transfers	0	0	0	0	-
71	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
72 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
73 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
75 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
76	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
76	5.5	Groundwater vulnerability- local information	None (within 0m)				
77	5.6	Groundwater abstractions	0	0	0	0	0
77	5.7	Surface water abstractions	0	0	0	0	0
77	5.8	Potable abstractions	0	0	0	0	0
77	5.9	Source Protection Zones	0	0	0	0	-
78	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m

79 >	6.1 >	Water Network (OS NGD) >	0	2	4	-	-
80 >	6.2 >	Surface water features >	0	0	2	-	-
80 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
81 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
81 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
82 >	7.1 >	Risk of flooding from rivers and the sea >	Medium (within 50m)				
83 >	7.2 >	Historical Flood Events >	0	0	5	-	-
83 >	7.3 >	Flood Defences >	0	0	1	-	-
84	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
84	7.5	Flood Storage Areas	0	0	0	-	-
85 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
86 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
87 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
89 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
90	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
91	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
91	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
91	10.4	Special Protection Areas (SPA)	0	0	0	0	0
91	10.5	National Nature Reserves (NNR)	0	0	0	0	0
92	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
92	10.7	Designated Ancient Woodland	0	0	0	0	0
92	10.8	Biosphere Reserves	0	0	0	0	0
92	10.9	Forest Parks	0	0	0	0	0
93	10.10	Marine Conservation Zones	0	0	0	0	0
93 >	10.11 >	Green Belt >	0	0	0	1	0

93	10.12	Proposed Ramsar sites	0	0	0	0	0
93	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
94	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
94	10.15	Nitrate Sensitive Areas	0	0	0	0	0
94 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	0	0
95 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
96	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
97	11.1	World Heritage Sites	0	0	0	-	-
98	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
98	11.3	National Parks	0	0	0	-	-
98 >	11.4 >	Listed Buildings >	0	0	1	-	-
99	11.5	Conservation Areas	0	0	0	-	-
99	11.6	Scheduled Ancient Monuments	0	0	0	-	-
99	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
100 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
101	12.2	Open Access Land	0	0	0	-	-
101	12.3	Tree Felling Licences	0	0	0	-	-
101	12.4	Environmental Stewardship Schemes	0	0	0	-	-
101	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	13.1 >	Priority Habitat Inventory >	0	0	3	-	-
103	13.2	Habitat Networks	0	0	0	-	-
103	13.3	Open Mosaic Habitat	0	0	0	-	-
103	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
104 >	14.1 >	10k Availability >	Identified (within 500m)				
105 >	14.2 >	Artificial and made ground (10k) >	0	0	5	8	-

107 >	14.3 >	Superficial geology (10k) >	1	0	0	0	-
108	14.4	Landslip (10k)	0	0	0	0	-
109 >	14.5 >	Bedrock geology (10k) >	1	1	1	20	-
111 >	14.6 >	Bedrock faults and other linear features (10k) >	0	1	2	11	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
112 >	15.1 >	50k Availability >	Identified (within 500m)				
113 >	15.2 >	Artificial and made ground (50k) >	0	0	1	0	-
114	15.3	Artificial ground permeability (50k)	0	0	-	-	-
115 >	15.4 >	Superficial geology (50k) >	1	0	0	0	-
116 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
116	15.6	Landslip (50k)	0	0	0	0	-
116	15.7	Landslip permeability (50k)	None (within 50m)				
117 >	15.8 >	Bedrock geology (50k) >	2	0	2	16	-
119 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
119 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	2	11	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
121	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
122 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
123 >	17.2 >	Running sands >	Low (within 50m)				
125 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
127 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
129 >	17.5 >	Landslides >	Very low (within 50m)				
130 >	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
132 >	18.1 >	BritPits >	0	0	0	6	-
134 >	18.2 >	Surface ground workings >	0	0	31	-	-
136 >	18.3 >	Underground workings >	0	0	0	8	18
137	18.4	Underground mining extents	0	0	0	0	-

137	18.5	Historical Mineral Planning Areas	0	0	0	0	-
137 >	**18.6 >**	**Non-coal mining >**	1	0	0	3	4
139	18.7	JPB mining areas	None (within 0m)				
139	18.8	The Coal Authority non-coal mining	0	0	0	0	-
139	18.9	Researched mining	0	0	0	0	-
139	18.10	Mining record office plans	0	0	0	0	-
140	18.11	BGS mine plans	0	0	0	0	-
140 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
140	18.13	Brine areas	None (within 0m)				
140	18.14	Gypsum areas	None (within 0m)				
140	18.15	Tin mining	None (within 0m)				
141	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
142	19.1	Natural cavities	0	0	0	0	-
142	19.2	Mining cavities	0	0	0	0	0
142	19.3	Reported recent incidents	0	0	0	0	-
142	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon >**					
144 >	**20.1 >**	**Radon >**	Between 1% and 3% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
146 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	3	4	-	-	-
146	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
147	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
148	22.1	Underground railways (London)	0	0	0	-	-
148	22.2	Underground railways (Non-London)	0	0	0	-	-
149	22.3	Railway tunnels	0	0	0	-	-
149 >	**22.4 >**	**Historical railway and tunnel features >**	0	0	42	-	-
151	22.5	Royal Mail tunnels	0	0	0	-	-

151 >	22.6 >	Historical railways >	0	0	4	-	-
151	22.7	Railways	0	0	0	-	-
151	22.8	Crossrail 2	0	0	0	0	-
152	22.9	HS2	0	0	0	0	-

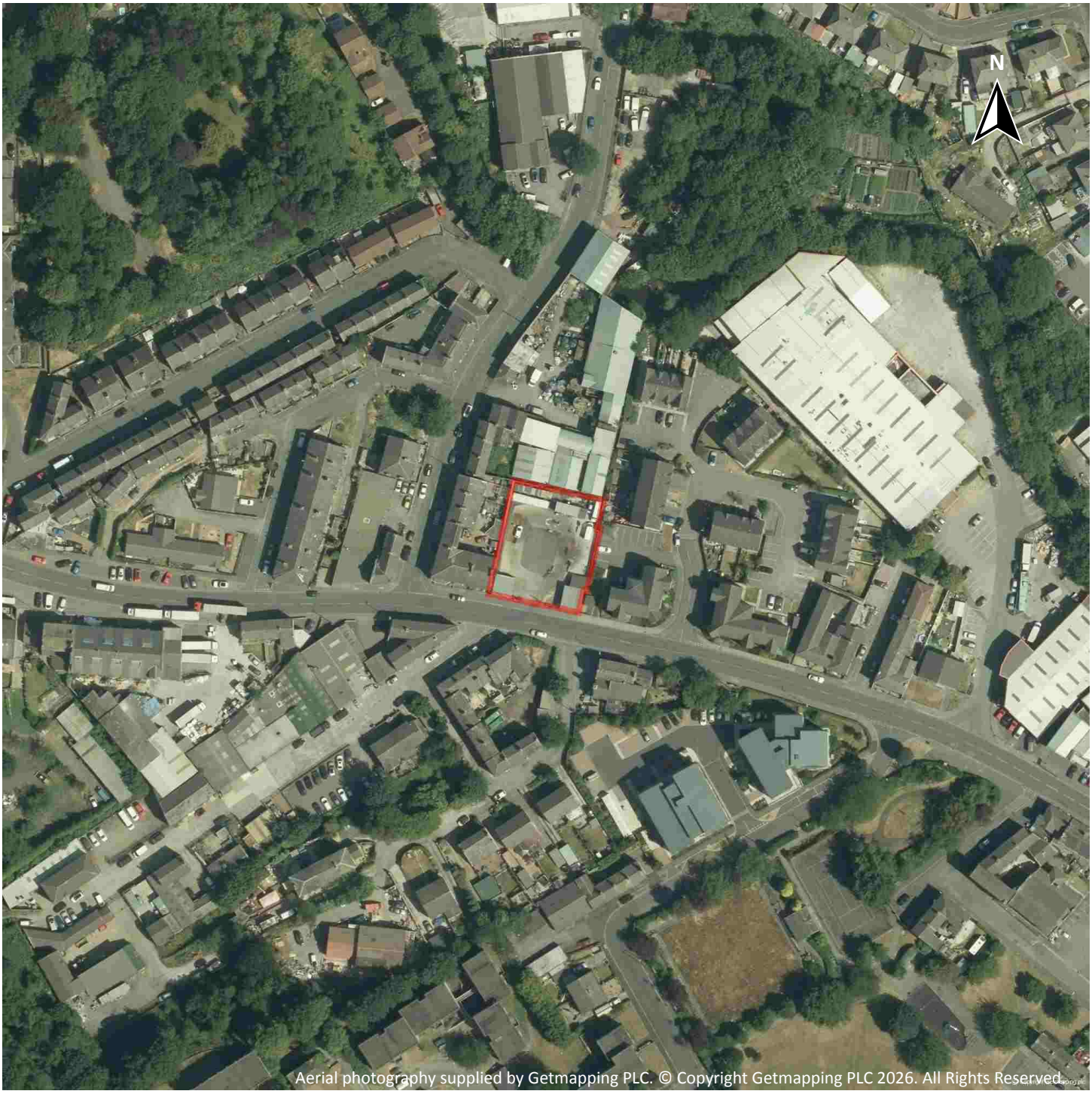
Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.11ha

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.11ha

Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.11ha

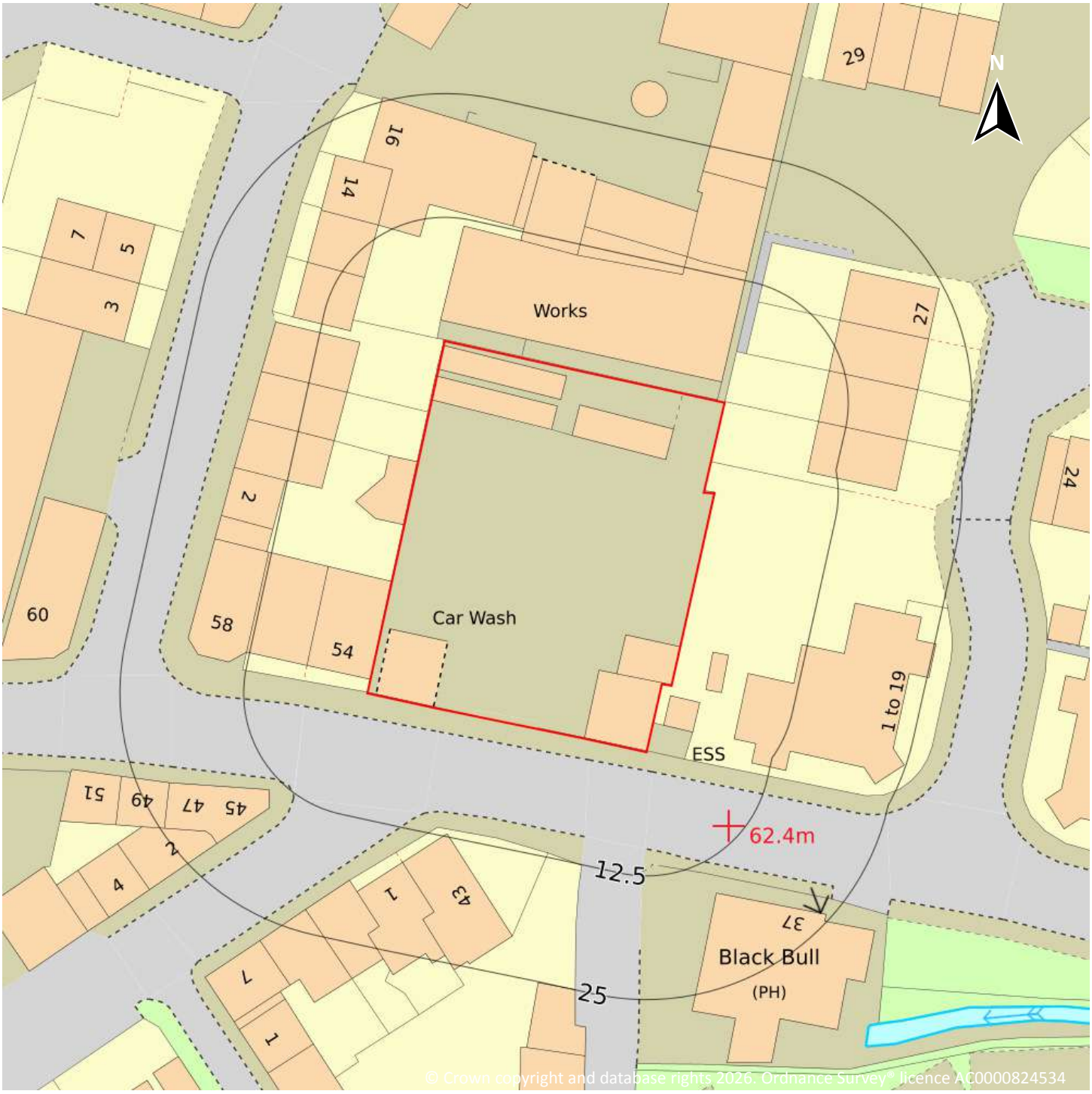
Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

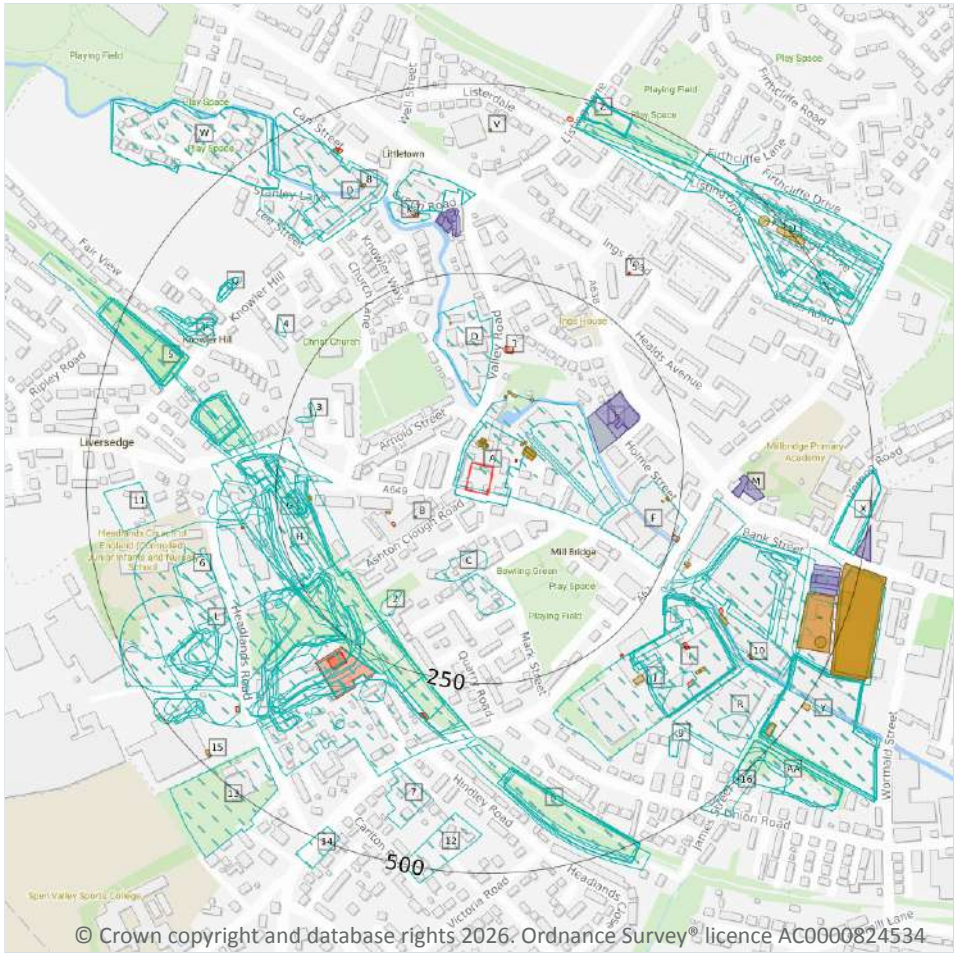
Site Area: 0.11ha

OS MasterMap site plan



Site Area: 0.11ha

1 Past land use



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1.1 Historical industrial land uses

Records within 500m	202

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

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

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Commercial/Industrial**	**1948**	**1492764**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Commercial/Industrial**	**1892 - 1931**	**1494730**
A	**On site**	**Unspecified Works**	**1974 - 1988**	**1504282**
A	60m NE	Mill Pond	1892 - 1905	1515674
C	75m S	Unspecified Ground Workings	1892	1440218
D	77m N	Unspecified Works	1988	1460416
C	106m S	Unspecified Pit	1892	1449606
F	156m E	Unspecified Works	1974 - 1988	1572516
2	159m SW	Unspecified Heap	1892	1466242
G	175m SW	Railway Sidings	1967	1503592
H	177m W	Railway Sidings	1955	1521725
H	188m SW	Railway Sidings	1948	1505846
H	188m SW	Railway Sidings	1892 - 1905	1522222
H	190m SW	Railway Sidings	1931	1485789
G	196m W	Railway Sidings	1931	1544313
G	200m SW	Railway Sidings	1938	1535166
H	201m SW	Cuttings	1974 - 1988	1546023
G	205m W	Railway Building	1981 - 1988	1510213
H	208m SW	Cuttings	1967 - 1988	1501177
G	210m W	Railway Building	1955 - 1967	1496400
G	210m W	Railway Building	1931	1528461
H	213m SW	Railway Sidings	1931	1506138
H	213m SW	Railway Sidings	1931	1540680
G	214m SW	Unspecified Commercial/Industrial	1931	1503939
H	214m SW	Unspecified Ground Workings	1931	1554642
3	215m W	Refuse Heap	1892	1434942
G	215m W	Railway Building	1948	1492630
G	215m W	Railway Building	1931	1582968
H	217m SW	Unspecified Pit	1892	1451868

ID	Location	Land use	Dates present	Group ID
H	218m SW	Railway Sidings	1938	1572828
H	221m SW	Unspecified Ground Workings and Heap	1938	1470373
G	223m SW	Railway Sidings	1931	1574496
G	228m SW	Railway Sidings	1938	1576999
G	229m SW	Railway Building	1948	1566330
G	229m SW	Railway Building	1931	1576490
H	230m S	Cuttings	1967	1578692
G	239m W	Railway Building	1974 - 1981	1544485
H	240m SW	Refuse Heap	1955	1563206
G	240m W	Railway Building	1988	1499192
G	245m W	Railway Station	1905 - 1931	1496707
G	245m W	Railway Station	1948 - 1955	1573141
G	245m W	Railway Station	1931	1556600
G	247m W	Railway Station	1967	1525746
G	248m W	Railway Station	1938	1526747
H	249m SW	Refuse Heap	1931	1533730
H	249m SW	Refuse Heap	1931	1556887
H	251m SW	Refuse Heaps	1948	1526519
H	252m S	Cuttings	1892	1508527
H	253m SW	Refuse Heap	1892	1542945
G	255m W	Cuttings	1892	1540269
H	255m SW	Refuse Heaps	1931	1570498
H	256m SW	Refuse Heap	1905	1507652
G	258m SW	Abattoir	1981 - 1988	1552184
G	260m W	Unspecified Ground Workings	1892	1440161
G	260m W	Railway Building	1955	1476156
F	261m SE	Unspecified Mills	1938	1445930
H	265m SW	Electric Substation	1981 - 1988	1552034

ID	Location	Land use	Dates present	Group ID
H	266m SW	Electric Substation	1974	1565481
F	269m SE	Unspecified Covered Tank	1892 - 1905	1541022
I	269m SE	Unspecified Mills	1948	1495944
I	269m SE	Unspecified Mills	1931	1561754
G	269m W	Railway Building	1955	1476195
F	270m SE	Unspecified Commercial/Industrial	1892 - 1905	1498836
J	270m SE	Unspecified Mills	1955 - 1988	1556866
I	270m SE	Unspecified Mills	1938	1505376
G	271m W	Railway Station	1892	1581458
I	271m SE	Unspecified Mills	1931	1565534
H	273m SW	Unspecified Heap	1892	1467784
H	273m SW	Colliery	1892 - 1905	1575004
I	274m SE	Unspecified Mills	1905	1536646
G	276m W	Unspecified Works	1988	1460443
G	283m W	Cuttings	1967	1490526
I	288m SE	Unspecified Commercial/Industrial	1892	1431553
G	292m W	Cuttings	1974 - 1988	1519709
4	297m NW	Unspecified Quarry and Clay Pit	1905	1432739
F	297m E	Unspecified Works	1974 - 1988	1500359
L	303m W	Refuse Destructor	1905	1549990
F	304m E	Unspecified Commercial/Industrial	1931	1498142
F	304m E	Unspecified Commercial/Industrial	1948	1578801
H	304m SW	Refuse Heap	1948	1520755
F	308m E	Carpet Works	1967	1447176
G	308m W	Cuttings	1948	1508879
G	308m W	Cuttings	1905 - 1931	1532436
G	310m W	Cuttings	1955	1572200
G	310m W	Cuttings	1931	1542064

ID	Location	Land use	Dates present	Group ID
G	310m W	Cuttings	1938	1563061
H	321m SW	Cuttings	1967 - 1988	1536715
N	321m S	Cuttings	1967 - 1988	1546266
K	325m N	Refuse Heap	1905 - 1931	1582595
N	331m S	Cuttings	1892	1564116
K	334m N	Unspecified Commercial/Industrial	1948	1534293
K	334m N	Unspecified Commercial/Industrial	1892 - 1931	1537735
G	344m W	Tunnel	1892	1479249
H	345m SW	Unspecified Disused Shafts	1967	1459472
H	347m SW	Unspecified Disused Shafts	1967	1459471
L	350m W	Refuse Destructor	1955	1492003
6	351m W	Unspecified Quarry	1892	1464769
O	351m NW	Unspecified Mills	1892 - 1931	1535284
O	351m NW	Unspecified Mills	1948	1571558
H	355m SW	Unspecified Old Shafts	1955	1549061
H	356m SW	Unspecified Old Shafts	1948	1506814
L	356m SW	Refuse Heaps	1905	1432553
O	360m NW	Unspecified Commercial/Industrial	1931	1552556
H	360m SW	Unspecified Old Shafts	1948 - 1955	1510702
N	362m S	Cuttings	1905 - 1931	1514219
N	362m S	Cuttings	1948	1529638
N	365m S	Cuttings	1955	1566358
N	365m S	Cuttings	1931	1581999
N	367m S	Cuttings	1938	1541894
H	371m SW	Refuse Heap	1931	1526537
H	372m SW	Refuse Heap	1938	1515418
L	375m SW	Refuse Destructor	1931	1535339
L	376m SW	Refuse Destructor	1948	1566735

ID	Location	Land use	Dates present	Group ID
L	376m SW	Refuse Destructor	1931	1575362
7	377m S	Nursery	1955	1453480
P	378m NW	Refuse Heap	1892	1434946
L	382m SW	Refuse Heap	1974 - 1988	1561714
P	382m NW	Unspecified Quarry	1905	1464758
P	384m NW	Unspecified Ground Workings	1938	1531868
P	385m NW	Unspecified Ground Workings	1931	1492724
P	385m NW	Unspecified Ground Workings	1931	1529427
P	385m NW	Unspecified Ground Workings	1948	1541060
L	387m SW	Chimney	1967	1475283
Q	387m NW	Unspecified Quarry	1955	1557897
R	387m SE	Unspecified Depot	1974 - 1988	1509059
Q	390m NW	Unspecified Quarry	1938	1549637
L	390m SW	Refuse Heap	1938	1539590
Q	391m NW	Unspecified Quarry	1931	1508381
L	391m SW	Refuse Heap	1948	1493104
L	391m SW	Refuse Heap	1931	1572659
Q	393m NW	Unspecified Quarry	1931	1567907
Q	393m NW	Unspecified Quarry	1948	1582084
S	397m W	Cuttings	1974 - 1988	1581114
S	398m W	Cuttings	1955 - 1967	1536505
9	400m SE	Unspecified Ground Workings	1967	1438749
S	402m W	Cuttings	1938	1532387
L	403m SW	Unspecified Heap	1967	1467743
S	405m W	Cuttings	1931	1580143
S	405m W	Cuttings	1905 - 1931	1492605
S	405m W	Cuttings	1948	1562846
S	407m W	Cuttings	1892	1549783

ID	Location	Land use	Dates present	Group ID
L	408m SW	Unspecified Ground Workings	1905	1507184
11	411m W	Leather Works	1931	1515675
12	422m S	Nursery	1948	1453481
R	426m SE	Unspecified Heap	1967	1466241
T	431m E	Unspecified Commercial/Industrial	1938	1581368
U	435m NE	Cuttings	1955	1433517
U	435m NE	Railway Sidings	1955	1490316
U	435m NE	Railway Sidings	1967	1500719
U	435m NE	Unspecified Depot	1974 - 1988	1517802
13	436m SW	Unspecified Works	1974 - 1988	1531917
L	439m SW	Unspecified Old Shaft	1931	1446641
T	441m E	Unspecified Commercial/Industrial	1892 - 1931	1559405
W	443m NW	Unspecified Mills	1988	1499890
W	443m NW	Unspecified Mills	1955	1525910
W	443m NW	Unspecified Mills	1981	1541367
W	443m NW	Unspecified Mills	1967 - 1974	1558083
L	445m SW	Unspecified Ground Workings	1948	1495243
L	446m SW	Refuse Heap	1955	1559887
L	447m SW	Refuse Heap	1892	1506161
U	448m NE	Goods Station	1931	1521205
U	449m NE	Railway Building	1955 - 1967	1560607
U	451m NE	Railway Sidings	1948	1498559
U	451m NE	Railway Sidings	1905 - 1931	1523191
X	452m E	Tramway Depot	1938	1536654
X	453m E	Omnibus Depot	1955	1479261
U	453m NE	Railway Sidings	1938	1538968
Y	456m SE	Unspecified Commercial/Industrial	1967	1570400
Y	456m SE	Unspecified Mills	1955	1572751

ID	Location	Land use	Dates present	Group ID
Y	456m SE	Unspecified Mills	1938	1499015
Y	456m SE	Unspecified Mills	1948	1504530
Y	456m SE	Unspecified Mills	1931	1518278
X	457m E	Tramway Terminus	1905	1445099
X	457m E	Tramway Depot	1948	1540214
X	457m E	Tramway Depot	1905 - 1931	1579768
Y	458m SE	Unspecified Mills	1931	1563170
Y	460m SE	Unspecified Commercial/Industrial	1905	1565925
Y	462m SE	Unspecified Commercial/Industrial	1974 - 1988	1577568
Z	469m N	Railway Station	1938	1578779
Z	469m N	Railway Station	1905 - 1931	1564743
Z	469m N	Railway Station	1948	1575918
Z	471m N	Railway Station	1931	1581881
Z	472m N	Railway Station	1955	1581472
U	475m NE	Unspecified Tanks	1974 - 1988	1552783
L	478m SW	Refuse Heap	1948	1522088
U	478m NE	Railway Sidings	1974 - 1988	1530764
R	479m SE	Unspecified Tank	1955	1546688
AA	479m SE	Unspecified Heap	1967 - 1988	1554195
AA	479m SE	Refuse Heap	1955	1556573
R	480m SE	Unspecified Tank	1938	1526426
AA	480m SE	Refuse Heap	1938	1548049
14	480m S	Cuttings	1892	1433544
R	480m SE	Unspecified Tank	1931	1534295
AA	483m SE	Refuse Heap	1931	1536856
AA	483m SE	Refuse Heap	1948	1577588
16	484m SE	Unspecified Ground Workings	1892	1438747
T	484m E	Unspecified Commercial/Industrial	1967 - 1988	1532166

ID	Location	Land use	Dates present	Group ID
U	493m NE	Goods Station	1938	1494543
U	493m NE	Goods Station	1955	1505585
U	495m NE	Goods Station	1948	1497271
U	495m NE	Goods Station	1905 - 1931	1503683
U	500m NE	Goods Station	1967	1492141

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	**72**

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

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

ID	Location	Land use	Dates present	Group ID
A	22m N	Tanks	1933 - 1938	251229
A	24m N	Unspecified Tank	1994 - 1996	251484
A	24m N	Tanks	1958	257500
A	25m N	Tanks	1972	254191
A	25m N	Tanks	1956	260903
A	25m N	Unspecified Tank	1990	248254
A	25m N	Unspecified Tank	1990	251941
A	25m N	Unspecified Tank	1972	254490
A	25m N	Unspecified Tank	1990	257470
A	25m N	Unspecified Tank	1990	259800
A	25m N	Unspecified Tank	1990	262201
A	28m N	Tanks	1907	249163
A	30m N	Tanks	1994 - 1996	249877

ID	Location	Land use	Dates present	Group ID
A	31m N	Tanks	1956 - 1990	261219
A	43m NE	Unspecified Tank	1933 - 1938	248549
A	43m NE	Unspecified Tank	1922	245668
A	46m NE	Unspecified Tank	1922 - 1938	247266
A	48m NE	Unspecified Tank	1958	248762
A	48m NE	Unspecified Tank	1985 - 1991	248276
A	48m NE	Unspecified Tank	1970	250617
A	48m NE	Unspecified Tank	1956	261843
A	48m N	Unspecified Tank	1907	238329
A	52m NE	Unspecified Tank	1956 - 1958	262099
B	74m SW	Unspecified Tank	1956	254629
B	74m SW	Unspecified Tank	1958	253252
A	93m N	Tanks	1996	248639
A	93m N	Tanks	1956	246333
A	93m N	Tanks	1970	256567
A	93m N	Tanks	1985	244374
A	93m N	Tanks	1991	259751
A	94m N	Tanks	1958	254678
A	97m N	Tanks	1956 - 1996	252822
A	100m NE	Unspecified Tank	1956 - 1991	256180
B	104m W	Unspecified Tank	1922 - 1938	246466
D	184m N	Unspecified Tank	1907	238328
G	203m W	Unspecified Tank	1972 - 1990	248765
F	225m E	Unspecified Tank	1985 - 1991	261248
F	231m E	Unspecified Tank	1956	246109
F	231m E	Unspecified Tank	1958	248487
F	231m E	Unspecified Tank	1996	246158
F	232m E	Unspecified Tank	1970	250051

ID	Location	Land use	Dates present	Group ID
F	276m E	Tanks	1970 - 1996	254144
F	279m E	Unspecified Tank	1956 - 1958	252332
G	296m W	Unspecified Tank	1994 - 1996	248862
G	297m W	Unspecified Tank	1972	250625
G	297m W	Unspecified Tank	1990	248975
G	297m W	Unspecified Tank	1990	249723
G	297m W	Unspecified Tank	1990	249730
G	297m W	Unspecified Tank	1990	253735
G	297m W	Unspecified Tank	1972	257529
G	297m W	Unspecified Tank	1990	257806
J	312m SE	Tanks	1991 - 1996	256477
F	345m SE	Tanks	1933 - 1938	254307
I	361m SE	Unspecified Tank	1938	239662
I	363m SE	Tanks	1956 - 1958	246602
8	391m N	Tanks	1907	234066
10	404m SE	Unspecified Tank	1970 - 1996	247164
V	437m N	Unspecified Tank	1971	244295
V	438m N	Unspecified Tank	1986	244299
V	438m N	Unspecified Tank	1989	244300
T	442m E	Gas Works	1894	236970
T	464m E	Unspecified Tank	1938	239661
T	474m SE	Gasometer	1894	237238
U	476m NE	Unspecified Tank	1970	238324
T	478m E	Gas Works	1894	251973
R	481m SE	Unspecified Tank	1933 - 1938	252821
T	481m E	Gas Works	1907 - 1922	247874
T	482m E	Gasholder Station	1955 - 1958	257282
15	483m SW	Tanks	1993	234627

ID	Location	Land use	Dates present	Group ID
U	487m NE	Tanks	1970	234065
U	490m NE	Unspecified Tank	1970	238325
Y	500m SE	Tanks	1907	234626

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	**35**

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

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

ID	Location	Land use	Dates present	Group ID
A	30m E	Electricity Substation	1985	145625
A	30m E	Electricity Substation	1991	145786
A	30m E	Electricity Substation	1956	156637
A	30m E	Electricity Substation	1970	162207
A	30m E	Electricity Substation	1958	160177
B	103m SW	Electricity Substation	1972 - 1996	157027
1	152m N	Electricity Substation	1956 - 1996	151801
F	250m E	Electricity Substation	1956 - 1996	152086
H	264m SW	Electricity Substation	1994 - 1996	146664
H	270m SW	Electricity Substation	1972	147779
H	270m SW	Electricity Substation	1972 - 1990	159723
J	276m SE	Electricity Substation	1991 - 1996	148349
H	299m S	Electricity Substation	1979	160111
H	299m S	Electricity Substation	1970	150065
H	302m S	Electricity Substation	1956 - 1958	159514

ID	Location	Land use	Dates present	Group ID
F	303m SE	Electricity Substation	1991 - 1996	147060
H	303m S	Electricity Substation	1993	158208
5	310m NE	Electricity Substation	1970 - 1995	153326
I	324m SE	Electricity Substation	1970 - 1991	146430
I	325m SE	Electricity Substation	1996	152757
K	333m N	Electricity Substation	1985 - 1989	160959
K	334m N	Electricity Substation	1991 - 1995	157156
K	334m N	Electricity Substation	1971	153768
F	341m SE	Electricity Substation	1970 - 1996	147536
I	363m SE	Electricity Substation	1956 - 1958	161538
L	414m SW	Electricity Substation	1994 - 1996	145647
T	442m E	Gas Works	1894	144902
O	443m NW	Electricity Substation	1971 - 1991	146016
O	445m NW	Electricity Substation	1956	148580
O	445m NW	Electricity Substation	1995	149754
Z	467m N	Electricity Substation	1970 - 1995	160483
T	474m SE	Gasometer	1894	141933
T	478m E	Gas Works	1894	152170
T	481m E	Gas Works	1907 - 1922	159269
T	482m E	Gasholder Station	1955 - 1958	149689

This data is sourced from Ordnance Survey® / Groundsure.

1.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m	20

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

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

ID	Location	Land use	Dates present	Group ID
E	139m E	Garage	1970	51584
E	152m NE	Garage	1996	47799
E	160m E	Garage	1991	51303
E	170m E	Garage	1985	46915
K	299m N	Garage	1985 - 1989	51912
K	301m N	Garage	1971	47379
K	306m N	Garage	1991	47296
K	315m N	Garage	1958	48761
M	317m E	Garage	1970	46783
M	317m E	Garage	1956	48223
M	317m E	Garage	1958	51029
K	317m N	Garage	1995	48532
K	319m N	Garage	1956	47482
T	441m E	Garage	1985 - 1991	51077
T	441m E	Garage	1956	47450
T	441m E	Garage	1970	49720
T	441m E	Garage	1996	48861
T	447m E	Garage	1958	50830
X	490m E	Garage	1985 - 1991	51326
X	490m E	Garage	1970	49733

This data is sourced from Ordnance Survey® / Groundsure.

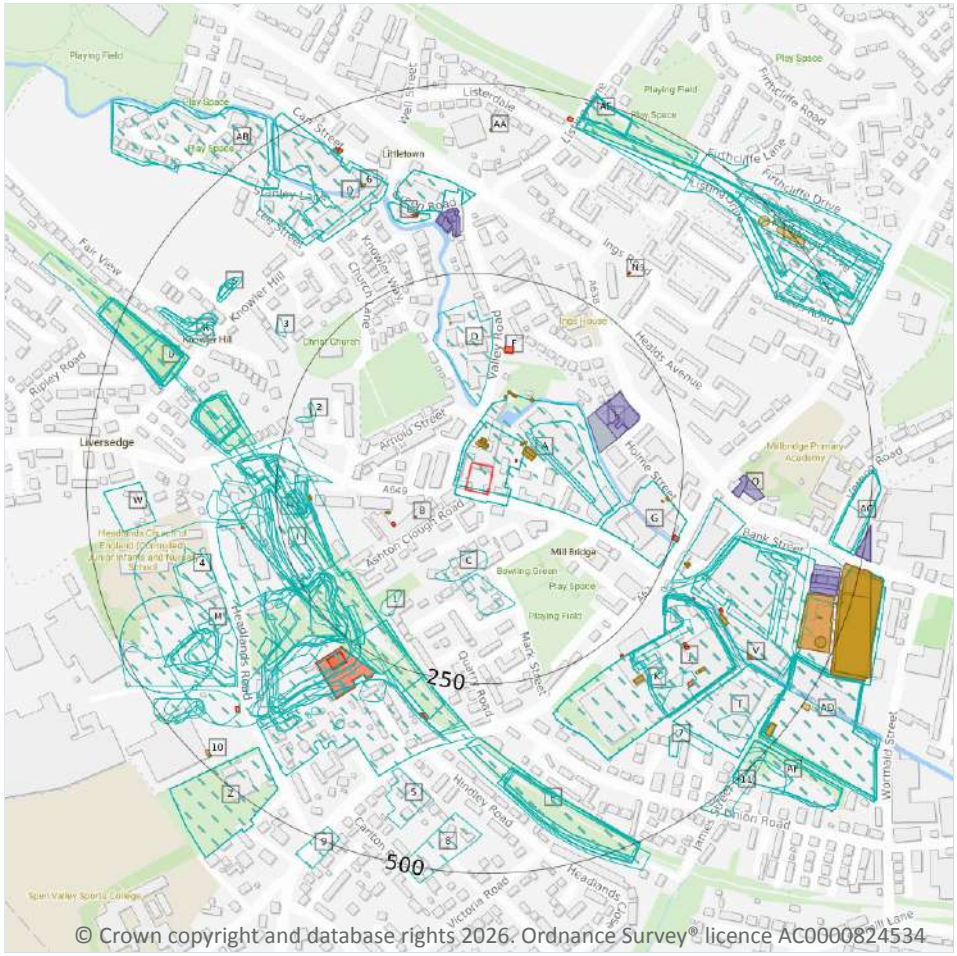
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	301

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 29 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Works**	**1988**	**1504282**
A	**On site**	**Unspecified Works**	**1981**	**1504282**
A	**On site**	**Unspecified Works**	**1974**	**1504282**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Commercial/Industrial**	**1948**	**1492764**
A	**On site**	**Unspecified Commercial/Industrial**	**1931**	**1494730**
A	**On site**	**Unspecified Commercial/Industrial**	**1905**	**1494730**
A	**On site**	**Unspecified Commercial/Industrial**	**1892**	**1494730**
A	60m NE	Mill Pond	1905	1515674
A	60m NE	Mill Pond	1892	1515674
C	75m S	Unspecified Ground Workings	1892	1440218
D	77m N	Unspecified Works	1988	1460416
C	106m S	Unspecified Pit	1892	1449606
G	156m E	Unspecified Works	1988	1572516
G	156m E	Unspecified Works	1981	1572516
G	156m E	Unspecified Works	1974	1572516
1	159m SW	Unspecified Heap	1892	1466242
H	175m SW	Railway Sidings	1967	1503592
I	177m W	Railway Sidings	1955	1521725
I	188m SW	Railway Sidings	1948	1505846
I	188m SW	Railway Sidings	1905	1522222
I	188m SW	Railway Sidings	1892	1522222
I	190m SW	Railway Sidings	1931	1485789
H	196m W	Railway Sidings	1931	1544313
H	196m W	Railway Sidings	1931	1544313
H	200m SW	Railway Sidings	1938	1535166
I	201m SW	Cuttings	1988	1546023
I	201m SW	Cuttings	1981	1546023
I	201m SW	Cuttings	1974	1546023
H	205m W	Railway Building	1988	1510213
H	205m W	Railway Building	1981	1510213
I	208m SW	Cuttings	1988	1501177

ID	Location	Land Use	Date	Group ID
I	208m SW	Cuttings	1981	1501177
H	210m W	Railway Building	1967	1496400
H	210m W	Railway Building	1931	1528461
H	210m W	Railway Building	1931	1528461
I	211m SW	Cuttings	1974	1501177
I	211m SW	Cuttings	1967	1501177
H	212m W	Railway Building	1955	1496400
I	213m SW	Railway Sidings	1931	1540680
I	213m SW	Railway Sidings	1931	1506138
H	214m SW	Unspecified Commercial/Industrial	1931	1503939
H	214m SW	Unspecified Commercial/Industrial	1931	1503939
I	214m SW	Unspecified Ground Workings	1931	1554642
I	214m SW	Unspecified Ground Workings	1931	1554642
2	215m W	Refuse Heap	1892	1434942
H	215m W	Railway Building	1948	1492630
H	215m W	Railway Building	1931	1582968
I	217m SW	Unspecified Pit	1892	1451868
I	218m SW	Railway Sidings	1938	1572828
I	221m SW	Unspecified Ground Workings and Heap	1938	1470373
H	223m SW	Railway Sidings	1931	1574496
H	223m SW	Railway Sidings	1931	1574496
H	228m SW	Railway Sidings	1938	1576999
H	229m SW	Railway Building	1948	1566330
H	229m SW	Railway Building	1931	1576490
I	230m S	Cuttings	1967	1578692
H	239m W	Railway Building	1981	1544485
H	239m W	Railway Building	1974	1544485
I	240m SW	Refuse Heap	1955	1563206

ID	Location	Land Use	Date	Group ID
H	240m W	Railway Building	1988	1499192
H	245m W	Railway Station	1948	1573141
H	245m W	Railway Station	1931	1496707
H	245m W	Railway Station	1905	1496707
H	245m W	Railway Station	1931	1556600
H	245m W	Railway Station	1931	1556600
H	247m W	Railway Station	1967	1525746
H	247m W	Railway Station	1955	1573141
H	248m W	Railway Station	1938	1526747
I	249m SW	Refuse Heap	1931	1533730
I	249m SW	Refuse Heap	1931	1556887
I	251m SW	Refuse Heaps	1948	1526519
I	252m S	Cuttings	1892	1508527
I	253m SW	Refuse Heap	1892	1542945
H	255m W	Cuttings	1892	1540269
I	255m SW	Refuse Heaps	1931	1570498
I	256m SW	Refuse Heap	1905	1507652
H	258m SW	Abattoir	1988	1552184
H	258m SW	Abattoir	1981	1552184
H	260m W	Unspecified Ground Workings	1892	1440161
H	260m W	Railway Building	1955	1476156
G	261m SE	Unspecified Mills	1938	1445930
I	265m SW	Electric Substation	1988	1552034
I	265m SW	Electric Substation	1981	1552034
I	266m SW	Electric Substation	1974	1565481
G	269m SE	Unspecified Covered Tank	1905	1541022
G	269m SE	Unspecified Covered Tank	1892	1541022
J	269m SE	Unspecified Mills	1948	1495944

ID	Location	Land Use	Date	Group ID
J	269m SE	Unspecified Mills	1931	1561754
H	269m W	Railway Building	1955	1476195
G	270m SE	Unspecified Commercial/Industrial	1905	1498836
G	270m SE	Unspecified Commercial/Industrial	1892	1498836
K	270m SE	Unspecified Mills	1988	1556866
K	270m SE	Unspecified Mills	1981	1556866
K	270m SE	Unspecified Mills	1974	1556866
K	270m SE	Unspecified Mills	1967	1556866
K	270m SE	Unspecified Mills	1955	1556866
J	270m SE	Unspecified Mills	1938	1505376
H	271m W	Railway Station	1892	1581458
J	271m SE	Unspecified Mills	1931	1565534
J	271m SE	Unspecified Mills	1931	1565534
I	273m SW	Colliery	1905	1575004
I	273m SW	Unspecified Heap	1892	1467784
I	273m SW	Colliery	1892	1575004
J	274m SE	Unspecified Mills	1905	1536646
H	276m W	Unspecified Works	1988	1460443
H	283m W	Cuttings	1967	1490526
J	288m SE	Unspecified Commercial/Industrial	1892	1431553
H	292m W	Cuttings	1988	1519709
H	292m W	Cuttings	1981	1519709
H	292m W	Cuttings	1974	1519709
3	297m NW	Unspecified Quarry and Clay Pit	1905	1432739
G	297m E	Unspecified Works	1988	1500359
G	297m E	Unspecified Works	1981	1500359
G	297m E	Unspecified Works	1974	1500359
M	303m W	Refuse Destructor	1905	1549990

ID	Location	Land Use	Date	Group ID
G	304m E	Unspecified Commercial/Industrial	1948	1578801
G	304m E	Unspecified Commercial/Industrial	1931	1498142
I	304m SW	Refuse Heap	1948	1520755
G	308m E	Carpet Works	1967	1447176
H	308m W	Cuttings	1948	1508879
H	308m W	Cuttings	1931	1532436
H	308m W	Cuttings	1905	1532436
H	310m W	Cuttings	1955	1572200
H	310m W	Cuttings	1931	1542064
H	310m W	Cuttings	1931	1542064
H	310m W	Cuttings	1938	1563061
I	321m SW	Cuttings	1988	1536715
I	321m SW	Cuttings	1981	1536715
I	321m SW	Cuttings	1974	1536715
I	321m SW	Cuttings	1967	1536715
P	321m S	Cuttings	1988	1546266
P	321m S	Cuttings	1981	1546266
P	321m S	Cuttings	1974	1546266
P	321m S	Cuttings	1967	1546266
L	325m N	Refuse Heap	1931	1582595
L	325m N	Refuse Heap	1905	1582595
P	331m S	Cuttings	1892	1564116
L	334m N	Unspecified Commercial/Industrial	1948	1534293
L	334m N	Unspecified Commercial/Industrial	1931	1537735
L	334m N	Unspecified Commercial/Industrial	1905	1537735
L	334m N	Unspecified Commercial/Industrial	1892	1537735
H	344m W	Tunnel	1892	1479249
I	345m SW	Unspecified Disused Shafts	1967	1459472

ID	Location	Land Use	Date	Group ID
I	347m SW	Unspecified Disused Shafts	1967	1459471
M	350m W	Refuse Destructor	1955	1492003
4	351m W	Unspecified Quarry	1892	1464769
Q	351m NW	Unspecified Mills	1948	1571558
Q	351m NW	Unspecified Mills	1931	1535284
Q	351m NW	Unspecified Mills	1905	1535284
Q	351m NW	Unspecified Mills	1892	1535284
I	355m SW	Unspecified Old Shafts	1955	1549061
I	356m SW	Unspecified Old Shafts	1948	1506814
M	356m SW	Refuse Heaps	1905	1432553
Q	360m NW	Unspecified Commercial/Industrial	1931	1552556
Q	360m NW	Unspecified Commercial/Industrial	1931	1552556
I	360m SW	Unspecified Old Shafts	1955	1510702
I	360m SW	Unspecified Old Shafts	1948	1510702
P	362m S	Cuttings	1948	1529638
P	362m S	Cuttings	1931	1514219
P	362m S	Cuttings	1905	1514219
P	365m S	Cuttings	1955	1566358
P	365m S	Cuttings	1931	1581999
P	365m S	Cuttings	1931	1581999
P	367m S	Cuttings	1938	1541894
I	371m SW	Refuse Heap	1931	1526537
I	372m SW	Refuse Heap	1938	1515418
M	375m SW	Refuse Destructor	1931	1535339
M	375m SW	Refuse Destructor	1931	1535339
M	376m SW	Refuse Destructor	1948	1566735
M	376m SW	Refuse Destructor	1931	1575362
5	377m S	Nursery	1955	1453480

ID	Location	Land Use	Date	Group ID
R	378m NW	Refuse Heap	1892	1434946
M	382m SW	Refuse Heap	1988	1561714
M	382m SW	Refuse Heap	1981	1561714
M	382m SW	Refuse Heap	1974	1561714
R	382m NW	Unspecified Quarry	1905	1464758
R	384m NW	Unspecified Ground Workings	1938	1531868
R	385m NW	Unspecified Ground Workings	1931	1492724
R	385m NW	Unspecified Ground Workings	1931	1492724
R	385m NW	Unspecified Ground Workings	1948	1541060
R	385m NW	Unspecified Ground Workings	1931	1529427
M	387m SW	Chimney	1967	1475283
S	387m NW	Unspecified Quarry	1955	1557897
T	387m SE	Unspecified Depot	1988	1509059
T	387m SE	Unspecified Depot	1981	1509059
T	387m SE	Unspecified Depot	1974	1509059
S	390m NW	Unspecified Quarry	1938	1549637
M	390m SW	Refuse Heap	1938	1539590
S	391m NW	Unspecified Quarry	1931	1508381
S	391m NW	Unspecified Quarry	1931	1508381
M	391m SW	Refuse Heap	1948	1493104
M	391m SW	Refuse Heap	1931	1572659
S	393m NW	Unspecified Quarry	1948	1582084
S	393m NW	Unspecified Quarry	1931	1567907
U	397m W	Cuttings	1988	1581114
U	397m W	Cuttings	1981	1581114
U	397m W	Cuttings	1974	1581114
U	398m W	Cuttings	1967	1536505
7	400m SE	Unspecified Ground Workings	1967	1438749

ID	Location	Land Use	Date	Group ID
U	402m W	Cuttings	1938	1532387
M	403m SW	Unspecified Heap	1967	1467743
U	405m W	Cuttings	1955	1536505
U	405m W	Cuttings	1931	1580143
U	405m W	Cuttings	1931	1580143
U	405m W	Cuttings	1948	1562846
U	405m W	Cuttings	1931	1492605
U	405m W	Cuttings	1905	1492605
U	407m W	Cuttings	1892	1549783
M	408m SW	Unspecified Ground Workings	1905	1507184
W	411m W	Leather Works	1931	1515675
W	411m W	Leather Works	1931	1515675
8	422m S	Nursery	1948	1453481
T	426m SE	Unspecified Heap	1967	1466241
X	431m E	Unspecified Commercial/Industrial	1938	1581368
Y	435m NE	Cuttings	1955	1433517
Y	435m NE	Railway Sidings	1967	1500719
Y	435m NE	Railway Sidings	1955	1490316
Y	435m NE	Unspecified Depot	1988	1517802
Y	435m NE	Unspecified Depot	1981	1517802
Y	435m NE	Unspecified Depot	1974	1517802
Z	436m SW	Unspecified Works	1988	1531917
Z	436m SW	Unspecified Works	1981	1531917
Z	436m SW	Unspecified Works	1974	1531917
M	439m SW	Unspecified Old Shaft	1931	1446641
X	441m E	Unspecified Commercial/Industrial	1931	1559405
X	441m E	Unspecified Commercial/Industrial	1931	1559405
AB	443m NW	Unspecified Mills	1981	1541367

ID	Location	Land Use	Date	Group ID
AB	443m NW	Unspecified Mills	1974	1558083
AB	443m NW	Unspecified Mills	1967	1558083
AB	443m NW	Unspecified Mills	1955	1525910
M	445m SW	Unspecified Ground Workings	1948	1495243
M	446m SW	Refuse Heap	1955	1559887
M	447m SW	Refuse Heap	1892	1506161
Y	448m NE	Goods Station	1931	1521205
Y	448m NE	Goods Station	1931	1521205
Y	449m NE	Railway Building	1955	1560607
Y	451m NE	Railway Sidings	1948	1498559
Y	451m NE	Railway Sidings	1931	1523191
Y	451m NE	Railway Sidings	1905	1523191
AC	452m E	Tramway Depot	1938	1536654
AC	453m E	Omnibus Depot	1955	1479261
Y	453m NE	Railway Sidings	1938	1538968
Y	454m NE	Railway Building	1967	1560607
AB	455m NW	Unspecified Mills	1988	1499890
AD	456m SE	Unspecified Commercial/Industrial	1967	1570400
AD	456m SE	Unspecified Mills	1955	1572751
AD	456m SE	Unspecified Mills	1938	1499015
AD	456m SE	Unspecified Mills	1948	1504530
AD	456m SE	Unspecified Mills	1931	1518278
Y	457m NE	Railway Sidings	1931	1523191
Y	457m NE	Railway Sidings	1931	1523191
AC	457m E	Tramway Depot	1948	1540214
AC	457m E	Tramway Depot	1931	1579768
AC	457m E	Tramway Depot	1905	1579768
AC	457m E	Tramway Terminus	1905	1445099

ID	Location	Land Use	Date	Group ID
AD	458m SE	Unspecified Mills	1931	1563170
AD	458m SE	Unspecified Mills	1931	1563170
AD	460m SE	Unspecified Commercial/Industrial	1905	1565925
AD	462m SE	Unspecified Commercial/Industrial	1988	1577568
AD	462m SE	Unspecified Commercial/Industrial	1981	1577568
AD	462m SE	Unspecified Commercial/Industrial	1974	1577568
AE	469m N	Railway Station	1938	1578779
AE	469m N	Railway Station	1948	1575918
AE	469m N	Railway Station	1931	1564743
AE	469m N	Railway Station	1905	1564743
AE	471m N	Railway Station	1931	1581881
AE	471m N	Railway Station	1931	1581881
AE	472m N	Railway Station	1955	1581472
Y	475m NE	Unspecified Tanks	1988	1552783
Y	475m NE	Unspecified Tanks	1981	1552783
Y	475m NE	Unspecified Tanks	1974	1552783
M	478m SW	Refuse Heap	1948	1522088
Y	478m NE	Railway Sidings	1988	1530764
Y	478m NE	Railway Sidings	1981	1530764
Y	478m NE	Railway Sidings	1974	1530764
T	479m SE	Unspecified Tank	1955	1546688
AF	479m SE	Unspecified Heap	1988	1554195
AF	479m SE	Unspecified Heap	1981	1554195
AF	479m SE	Unspecified Heap	1974	1554195
AF	479m SE	Unspecified Heap	1967	1554195
AF	479m SE	Refuse Heap	1955	1556573
T	480m SE	Unspecified Tank	1938	1526426
AF	480m SE	Refuse Heap	1938	1548049

ID	Location	Land Use	Date	Group ID
9	480m S	Cuttings	1892	1433544
T	480m SE	Unspecified Tank	1931	1534295
T	480m SE	Unspecified Tank	1931	1534295
AF	483m SE	Refuse Heap	1948	1577588
AF	483m SE	Refuse Heap	1931	1536856
11	484m SE	Unspecified Ground Workings	1892	1438747
X	484m E	Unspecified Commercial/Industrial	1988	1532166
X	484m E	Unspecified Commercial/Industrial	1981	1532166
X	484m E	Unspecified Commercial/Industrial	1974	1532166
X	484m E	Unspecified Commercial/Industrial	1967	1532166
X	484m E	Unspecified Commercial/Industrial	1905	1559405
X	484m E	Unspecified Commercial/Industrial	1892	1559405
Y	493m NE	Goods Station	1938	1494543
Y	493m NE	Goods Station	1955	1505585
Y	495m NE	Goods Station	1948	1497271
Y	495m NE	Goods Station	1931	1503683
Y	495m NE	Goods Station	1905	1503683
Y	500m NE	Goods Station	1967	1492141

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	**118**

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 29 >**

ID	Location	Land Use	Date	Group ID
A	22m N	Tanks	1933	251229
A	22m N	Tanks	1938	251229

ID	Location	Land Use	Date	Group ID
A	24m N	Unspecified Tank	1994	251484
A	24m N	Unspecified Tank	1996	251484
A	24m N	Tanks	1958	257500
A	25m N	Tanks	1972	254191
A	25m N	Tanks	1956	260903
A	25m N	Unspecified Tank	1972	254490
A	25m N	Unspecified Tank	1990	257470
A	25m N	Unspecified Tank	1990	251941
A	25m N	Unspecified Tank	1990	248254
A	25m N	Unspecified Tank	1990	259800
A	25m N	Unspecified Tank	1990	262201
A	28m N	Tanks	1907	249163
A	30m N	Tanks	1994	249877
A	30m N	Tanks	1996	249877
A	31m N	Tanks	1958	261219
A	31m N	Tanks	1972	261219
A	31m N	Tanks	1990	261219
A	31m N	Tanks	1990	261219
A	31m N	Tanks	1990	261219
A	31m N	Tanks	1990	261219
A	31m N	Tanks	1990	261219
A	32m N	Tanks	1972	261219
A	32m N	Tanks	1956	261219
A	43m NE	Unspecified Tank	1933	248549
A	43m NE	Unspecified Tank	1938	248549
A	43m NE	Unspecified Tank	1922	245668
A	46m NE	Unspecified Tank	1933	247266
A	46m NE	Unspecified Tank	1938	247266

ID	Location	Land Use	Date	Group ID
A	47m NE	Unspecified Tank	1922	247266
A	48m NE	Unspecified Tank	1958	248762
A	48m NE	Unspecified Tank	1985	248276
A	48m NE	Unspecified Tank	1991	248276
A	48m NE	Unspecified Tank	1970	250617
A	48m NE	Unspecified Tank	1956	261843
A	48m N	Unspecified Tank	1907	238329
A	52m NE	Unspecified Tank	1956	262099
A	52m NE	Unspecified Tank	1958	262099
B	74m SW	Unspecified Tank	1956	254629
B	74m SW	Unspecified Tank	1958	253252
A	93m N	Tanks	1996	248639
A	93m N	Tanks	1970	256567
A	93m N	Tanks	1956	246333
A	93m N	Tanks	1985	244374
A	93m N	Tanks	1991	259751
A	94m N	Tanks	1958	254678
A	97m N	Tanks	1996	252822
A	97m N	Tanks	1970	252822
A	97m N	Tanks	1956	252822
A	98m N	Tanks	1985	252822
A	98m N	Tanks	1991	252822
A	98m N	Tanks	1958	252822
A	100m NE	Unspecified Tank	1970	256180
A	100m NE	Unspecified Tank	1956	256180
A	100m NE	Unspecified Tank	1958	256180
A	101m NE	Unspecified Tank	1985	256180
A	101m NE	Unspecified Tank	1991	256180

ID	Location	Land Use	Date	Group ID
B	104m W	Unspecified Tank	1922	246466
B	105m W	Unspecified Tank	1933	246466
B	105m W	Unspecified Tank	1938	246466
D	184m N	Unspecified Tank	1907	238328
H	203m W	Unspecified Tank	1972	248765
H	203m W	Unspecified Tank	1972	248765
H	204m W	Unspecified Tank	1990	248765
H	204m W	Unspecified Tank	1990	248765
H	204m W	Unspecified Tank	1990	248765
G	225m E	Unspecified Tank	1985	261248
G	225m E	Unspecified Tank	1991	261248
G	231m E	Unspecified Tank	1956	246109
G	231m E	Unspecified Tank	1958	248487
G	231m E	Unspecified Tank	1996	246158
G	232m E	Unspecified Tank	1970	250051
G	276m E	Tanks	1985	254144
G	276m E	Tanks	1991	254144
G	277m E	Tanks	1996	254144
G	277m E	Tanks	1970	254144
G	279m E	Unspecified Tank	1956	252332
G	280m E	Unspecified Tank	1958	252332
H	296m W	Unspecified Tank	1994	248862
H	296m W	Unspecified Tank	1996	248862
H	297m W	Unspecified Tank	1972	250625
H	297m W	Unspecified Tank	1972	257529
H	297m W	Unspecified Tank	1990	253735
H	297m W	Unspecified Tank	1990	249730
H	297m W	Unspecified Tank	1990	257806

ID	Location	Land Use	Date	Group ID
H	297m W	Unspecified Tank	1990	248975
H	297m W	Unspecified Tank	1990	249723
K	312m SE	Tanks	1991	256477
K	313m SE	Tanks	1996	256477
G	345m SE	Tanks	1933	254307
G	345m SE	Tanks	1938	254307
J	361m SE	Unspecified Tank	1938	239662
J	363m SE	Tanks	1958	246602
J	364m SE	Tanks	1956	246602
6	391m N	Tanks	1907	234066
V	404m SE	Unspecified Tank	1985	247164
V	404m SE	Unspecified Tank	1991	247164
V	405m SE	Unspecified Tank	1996	247164
V	405m SE	Unspecified Tank	1970	247164
AA	437m N	Unspecified Tank	1971	244295
AA	438m N	Unspecified Tank	1986	244299
AA	438m N	Unspecified Tank	1989	244300
X	442m E	Gas Works	1894	236970
X	464m E	Unspecified Tank	1938	239661
X	474m SE	Gasometer	1894	237238
Y	476m NE	Unspecified Tank	1970	238324
X	478m E	Gas Works	1894	251973
T	481m SE	Unspecified Tank	1933	252821
T	481m SE	Unspecified Tank	1938	252821
X	481m E	Gas Works	1907	247874
X	481m E	Gas Works	1922	247874
X	482m E	Gasholder Station	1956	257282
10	483m SW	Tanks	1993	234627

ID	Location	Land Use	Date	Group ID
X	486m E	Gasholder Station	1958	257282
Y	487m NE	Tanks	1970	234065
Y	490m NE	Unspecified Tank	1970	238325
AD	500m SE	Tanks	1907	234626

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	**84**

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 29 >**

ID	Location	Land Use	Date	Group ID
A	30m E	Electricity Substation	1985	145625
A	30m E	Electricity Substation	1991	145786
A	30m E	Electricity Substation	1970	162207
A	30m E	Electricity Substation	1956	156637
A	30m E	Electricity Substation	1958	160177
B	103m SW	Electricity Substation	1972	157027
B	103m SW	Electricity Substation	1994	157027
B	103m SW	Electricity Substation	1996	157027
B	104m SW	Electricity Substation	1972	157027
B	104m SW	Electricity Substation	1990	157027
B	104m SW	Electricity Substation	1990	157027
B	104m SW	Electricity Substation	1990	157027
B	104m SW	Electricity Substation	1990	157027
B	104m SW	Electricity Substation	1990	157027
F	152m N	Electricity Substation	1996	151801
F	152m N	Electricity Substation	1985	151801

ID	Location	Land Use	Date	Group ID
F	152m N	Electricity Substation	1991	151801
F	152m N	Electricity Substation	1970	151801
F	152m N	Electricity Substation	1956	151801
F	152m N	Electricity Substation	1958	151801
G	250m E	Electricity Substation	1985	152086
G	250m E	Electricity Substation	1991	152086
G	251m E	Electricity Substation	1996	152086
G	251m E	Electricity Substation	1958	152086
G	251m E	Electricity Substation	1970	152086
G	251m E	Electricity Substation	1956	152086
I	264m SW	Electricity Substation	1994	146664
I	264m SW	Electricity Substation	1996	146664
I	270m SW	Electricity Substation	1972	147779
I	270m SW	Electricity Substation	1972	159723
I	270m SW	Electricity Substation	1990	159723
I	270m SW	Electricity Substation	1990	159723
I	270m SW	Electricity Substation	1990	159723
I	270m SW	Electricity Substation	1990	159723
I	270m SW	Electricity Substation	1990	159723
K	276m SE	Electricity Substation	1991	148349
K	276m SE	Electricity Substation	1996	148349
I	299m S	Electricity Substation	1979	160111
I	299m S	Electricity Substation	1970	150065
I	302m S	Electricity Substation	1956	159514
I	303m S	Electricity Substation	1958	159514
G	303m SE	Electricity Substation	1991	147060
I	303m S	Electricity Substation	1993	158208
G	304m SE	Electricity Substation	1996	147060

ID	Location	Land Use	Date	Group ID
N	310m NE	Electricity Substation	1970	153326
N	311m NE	Electricity Substation	1994	153326
N	311m NE	Electricity Substation	1995	153326
J	324m SE	Electricity Substation	1985	146430
J	324m SE	Electricity Substation	1991	146430
J	325m SE	Electricity Substation	1970	146430
J	325m SE	Electricity Substation	1996	152757
L	333m N	Electricity Substation	1985	160959
L	333m N	Electricity Substation	1986	160959
L	333m N	Electricity Substation	1989	160959
L	334m N	Electricity Substation	1995	157156
L	334m N	Electricity Substation	1995	157156
L	334m N	Electricity Substation	1971	153768
L	334m N	Electricity Substation	1991	157156
G	341m SE	Electricity Substation	1985	147536
G	341m SE	Electricity Substation	1991	147536
G	341m SE	Electricity Substation	1996	147536
G	342m SE	Electricity Substation	1970	147536
J	363m SE	Electricity Substation	1956	161538
J	363m SE	Electricity Substation	1958	161538
M	414m SW	Electricity Substation	1994	145647
M	414m SW	Electricity Substation	1996	145647
X	442m E	Gas Works	1894	144902
Q	443m NW	Electricity Substation	1985	146016
Q	443m NW	Electricity Substation	1986	146016
Q	443m NW	Electricity Substation	1989	146016
Q	445m NW	Electricity Substation	1956	148580
Q	445m NW	Electricity Substation	1971	146016

ID	Location	Land Use	Date	Group ID
Q	445m NW	Electricity Substation	1991	146016
Q	445m NW	Electricity Substation	1995	149754
Q	445m NW	Electricity Substation	1995	149754
AE	467m N	Electricity Substation	1970	160483
AE	467m N	Electricity Substation	1994	160483
AE	467m N	Electricity Substation	1995	160483
X	474m SE	Gasometer	1894	141933
X	478m E	Gas Works	1894	152170
X	481m E	Gas Works	1907	159269
X	481m E	Gas Works	1922	159269
X	482m E	Gasholder Station	1956	149689
X	486m E	Gasholder Station	1958	149689

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	25

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'.

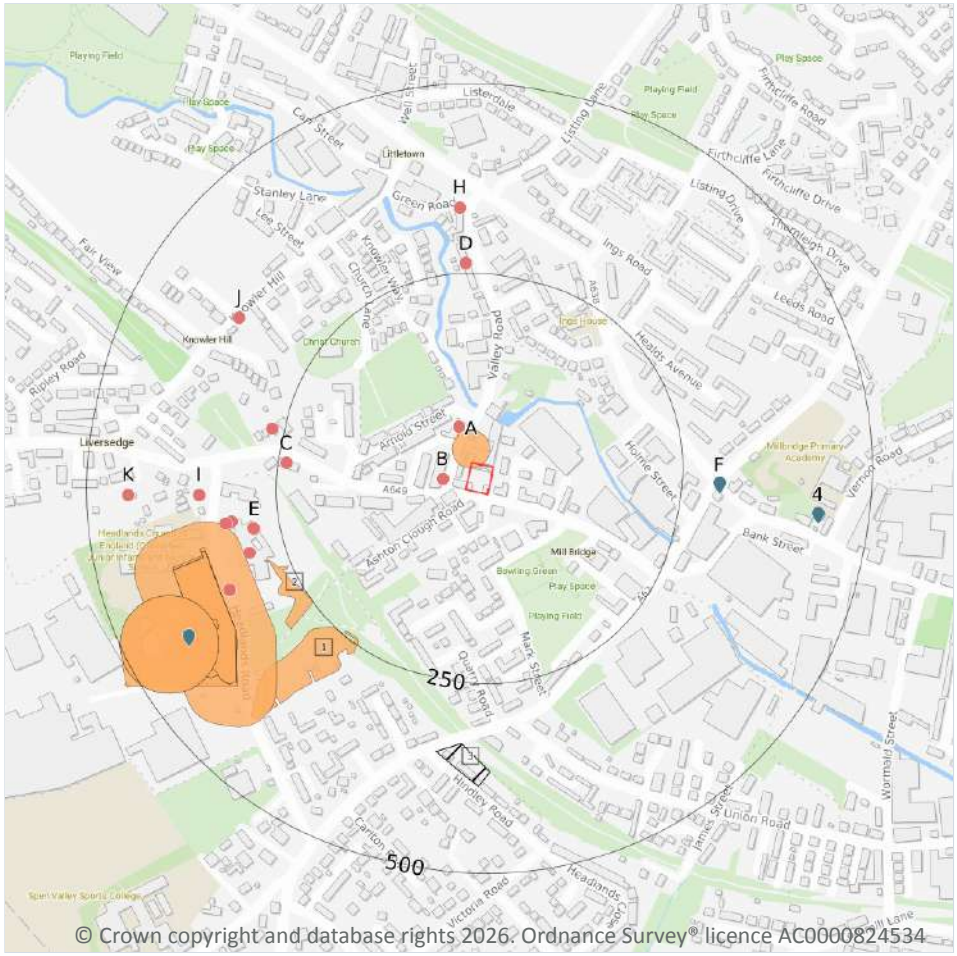
Features are displayed on the Past land use - un-grouped map on **page 29 >**

ID	Location	Land Use	Date	Group ID
E	139m E	Garage	1970	51584

ID	Location	Land Use	Date	Group ID
E	152m NE	Garage	1996	47799
E	160m E	Garage	1991	51303
E	170m E	Garage	1985	46915
L	299m N	Garage	1985	51912
L	299m N	Garage	1986	51912
L	299m N	Garage	1989	51912
L	301m N	Garage	1971	47379
L	306m N	Garage	1991	47296
L	315m N	Garage	1958	48761
O	317m E	Garage	1970	46783
O	317m E	Garage	1956	48223
O	317m E	Garage	1958	51029
L	317m N	Garage	1995	48532
L	317m N	Garage	1995	48532
L	319m N	Garage	1956	47482
X	441m E	Garage	1985	51077
X	441m E	Garage	1991	51077
X	441m E	Garage	1956	47450
X	441m E	Garage	1970	49720
X	441m E	Garage	1996	48861
X	447m E	Garage	1958	50830
AC	490m E	Garage	1985	51326
AC	490m E	Garage	1991	51326
AC	490m E	Garage	1970	49733

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical landfill (LA/OS)
- Historical waste sites
- 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	1

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.

Features are displayed on the Waste and landfill map on **page 50 >**

ID	Location	Address	BGS Number	Risk	Waste Type
G	415m SW	Headlands Rd, Liversedge, Yorkshire	1096	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**1**

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

Features are displayed on the Waste and landfill map on **page 50 >**

ID	Location	Site address	Source	Data type
G	347m SW	Refuse Tip	1971 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	**2**

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

Features are displayed on the Waste and landfill map on **page 50 >**

ID	Location	Details		
3	331m S	Site Address: Hindley Road, Liversedge Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
G	378m SW	Site Address: Headlands Road, Liversedge, Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Spenborough Borough council Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	13

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

Features are displayed on the Waste and landfill map on **page 50 >**

ID	Location	Address	Further Details	Date
A	**On site**	**Site Address: Site At, Valley Road, Liversedge, West Yorkshire, WF15 6**	**Type of Site: Taxi Office & Car Breakers Yard Planning application reference: 2013/62/93681/E Description: Scheme comprises construction of taxi office, car breakers and parking and construction of portable building. The associated works include sewer systems, landscaping, infrastructure, enabling works and access roads. Data source: Historic Planning Application Data Type: Point**	**04/06/2014**
1	242m SW	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1894
2	249m SW	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1958
G	303m W	Site Address: N/A	Type of Site: Refuse Destructor (B) Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1905
G	350m W	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
G	350m W	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1907

ID	Location	Address	Further Details	Date
G	350m W	Site Address: N/A	Type of Site: U.D.C. Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
G	350m W	Site Address: N/A	Type of Site: Disused U.D.C. Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1938
G	351m W	Site Address: N/A	Type of Site: U.D.C. Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922
G	371m SW	Site Address: N/A	Type of Site: Old Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
G	371m SW	Site Address: N/A	Type of Site: Old Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1958
G	376m SW	Site Address: N/A	Type of Site: Refuse Destructor (B) Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
G	376m SW	Site Address: N/A	Type of Site: Refuse Destructor (B) Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1931

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

3.6 Licensed waste sites

Records within 500m	5

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

Features are displayed on the Waste and landfill map on **page 50 >**

ID	Location	Details		
F	299m E	Site Name: Rawsons Scrapyard Site Address: Liversedge Goods Yard, Halifax Road, Liversedge, West Yorkshire, WF15 6PS Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MRH001 EPR reference: EA/EPR/HP3094ZX/A001 Operator: Mr Harold Rawson Waste Management licence No: 65019 Annual Tonnage: 4999	Issue Date: 14/10/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	299m E	Site Name: Rawsons Scrapyard Site Address: Liversedge Goods Yard, Halifax Road, Liversedge, West Yorkshire, WF15 6PS Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 646224 EPR reference: EA/EPR/HP3094ZX Operator: Robert Robinson Waste Management licence No: 65019 Annual Tonnage: 4999	Issue Date: 14/10/1998 Effective Date: 14/10/1998 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Suspended
G	415m SW	Site Name: Headlands Road Depot Site Address: Headlands Road Depot, Headlands Road, Liversedge, West Yorkshire, WF15 6PR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KMC001 EPR reference: BP3996ZJ/A001 Operator: Kirklees Metropolitan Council Waste Management licence No: 65526 Annual Tonnage: 24999	Issue Date: 12/01/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
G	415m SW	Site Name: Headlands Road Depot Site Address: Headlands Road Depot, Headlands Road, Liversedge, West Yorkshire, WF15 6PR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 642583 EPR reference: EA/EPR/BP3996ZJ Operator: Kirklees Council Waste Management licence No: 65526 Annual Tonnage: 24999	Issue Date: 12/01/2006 Effective Date: 12/01/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
4	432m E	Site Name: R C C Autos Ltd Site Address: 7, Vernon Road, Liversedge, West Yorkshire, WF15 6HU Correspondence Address: -	Type of Site: Vehicle Depollution Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 655229 EPR reference: EA/EPR/DB3709TG Operator: Rcc Autos Limited Waste Management licence No: 403026 Annual Tonnage: 4999	Issue Date: 14/03/2016 Effective Date: 14/03/2016 Modified: - Surrendered Date: 29/01/2025 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	**56**

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 50 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Using waste exemption	Not on a farm	Use of mulch
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods

ID	Location	Site	Reference	Category	Sub-Category	Description
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Using waste exemption	Not on a farm	Use of waste for a specified purpose
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX307876	Using waste exemption	Not on a farm	Use of waste in construction
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX312148	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX312148	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX312148	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX312148	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX312148	Using waste exemption	Not on a farm	Use of mulch
B	33m W	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX312148	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176542	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176542	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176542	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Using waste exemption	Not on a farm	Use of waste for a specified purpose
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Using waste exemption	Not on a farm	Use of waste in construction
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176542	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176542	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176542	Using waste exemption	Not on a farm	Use of mulch
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Using waste exemption	Not on a farm	Use of mulch
A	50m N	The Log Yard, The Log Yard, Valley Road, Liversedge, Wf15 6jy	WEX176548	Disposing of waste exemption	Not on a farm	Burning waste in the open
C	240m W	Freedom Group, Station Yard, Halifax Road, Liversedge, Wf15 6ps	WEX049047	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

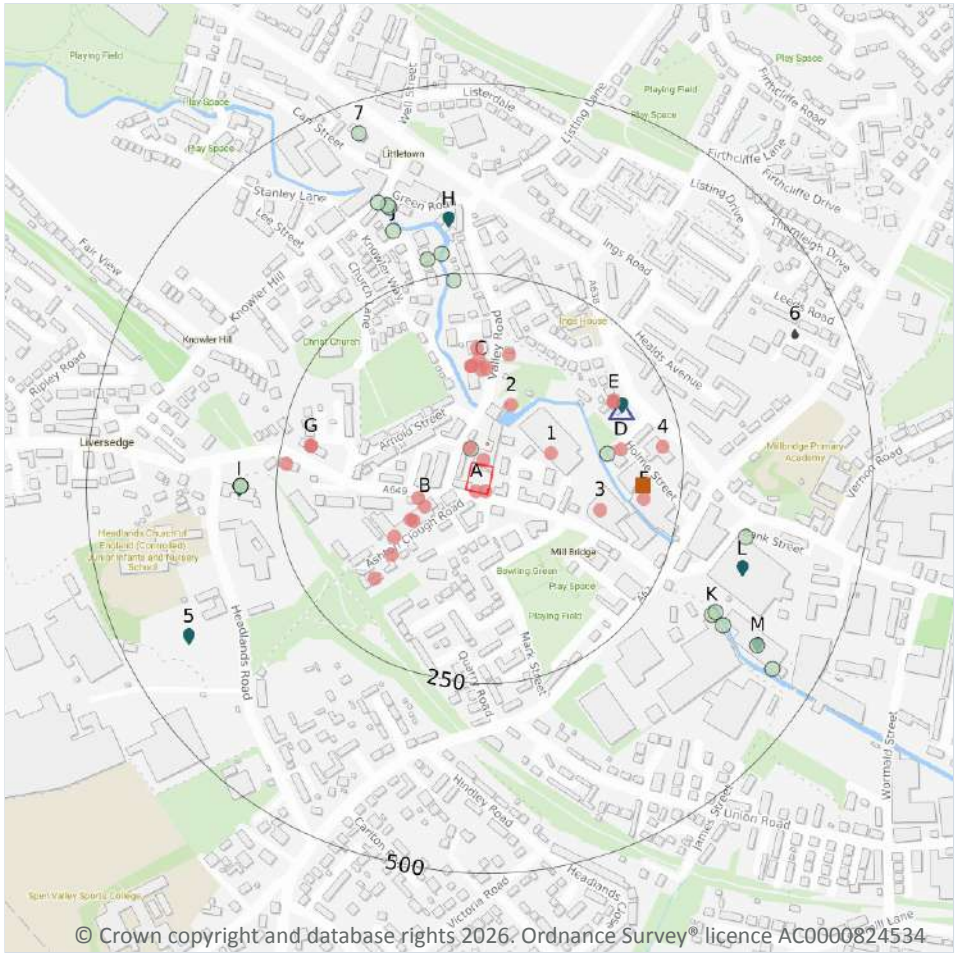
ID	Location	Site	Reference	Category	Sub-Category	Description
C	240m W	Freedom Group, Station Yard, Halifax Road, Liversedge, Wf15 6ps	WEX049047	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	262m N	69, Valley Road, Liversedge, Wf15 6dl	WEX423363	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	263m N	69 Valley Road Liversedge West Yorkshire Wf15 6dl	EPR/KF0031NH/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
C	267m W	Station Yard, Halifax Road, Liversedge, Wf15 6ps	WEX220071	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	267m W	Station Yard, Halifax Road, Liversedge, Wf15 6ps	WEX220071	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	284m W	-	WEX141302	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	284m W	Kirklees Highways, Operations Depot, Headlands Road, Liversedge, Wf15 6pr	WEX161444	Using waste exemption	Not on a farm	Use of waste in construction
E	284m W	Kirklees Highways, Operations Depot, Headlands Road, Liversedge, Wf15 6pr	WEX161444	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	285m W	Kirklees Council Headlands Road Liversedge West Yorkshire Wf15 6pr	EPR/KE5551VT/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
E	285m W	Kirklees Council Headlands Road Liversedge West Yorkshire Wf15 6pr	EPR/KE5551VT/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
E	297m W	-	WEX267234	Using waste exemption	Not on a farm	Use of waste in construction
E	312m W	Kirklees Council, Headlands Road, Liversedge, Wf15 6pr	WEX001680	Using waste exemption	Not on a farm	Use of waste in construction
E	312m W	Kirklees Council, Headlands Road, Liversedge, Wf15 6pr	WEX001680	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
E	320m W	Kirklees Highways, Operations Depot, Headlands Road, Liversedge, Wf15 6pr	WEX426008	Using waste exemption	Not on a farm	Use of waste in construction
E	320m W	Kirklees Highways, Operations Depot, Headlands Road, Liversedge, Wf15 6pr	WEX426008	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	336m N	69, Valley Road, Liversedge, Wf15 6dl	WEX224752	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	336m N	69, Valley Road, Liversedge, Wf15 6dl	WEX078659	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	336m N	69, Valley Road, Liversedge, Wf15 6dl	WEX351680	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	336m N	69, Valley Road, Liversedge, Wf15 6dl	WEX365027	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	339m SW	Kirklees Council Headlands Road Liversedge West Yorkshire Wf15 6pr	EPR/LE5252WG/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
G	339m SW	Kirklees Council Headlands Road Liversedge West Yorkshire Wf15 6pr	EPR/LE5252WG/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
I	352m W	Kirklees Highways, Operations Depot, Headlands Road, Liversedge, Wf15 6pr	WEX296518	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	352m W	Kirklees Highways, Operations Depot, Headlands Road, Liversedge, Wf15 6pr	WEX296518	Using waste exemption	Not on a farm	Use of waste in construction
J	362m NW	Land Off Coulpons Lane Se2016724021 Luddendenfoot	EPR/JE5443PL/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in secure containers
J	362m NW	Land Off Coulpons Lane Se2016724021 Luddendenfoot	EPR/JE5443PL/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
K	445m W	24, Prospect Terrace, Liversedge, Wf15 6pw	WEX358277	Using waste exemption	Not on a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
K	445m W	24, Prospect Terrace, Liversedge, Wf15 6pw	WEX358277	Disposing of waste exemption	Not on a farm	Burning waste in the open

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
- NGD current or recent tanks
- Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollutant release to public sewer
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	29

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 61 >**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Electricity Sub Station**	**West Yorkshire, WF15**	**Electrical Features**	**Infrastructure and Facilities**
A	**On site**	**Supashine**	**Supatyres, 52, Halifax Road, Liversedge, West Yorkshire, WF15 6JX**	**Vehicle Cleaning Services**	**Personal, Consumer and Other Services**

ID	Location	Company	Address	Activity	Category
A	7m N	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
A	20m N	Paintbox Textiles	16, Valley Road, Millbridge, Liversedge, West Yorkshire, WF15 6JY	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
B	58m W	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
B	64m W	Beauty Sleep	53, Halifax Road, Millbridge, Liversedge, West Yorkshire, WF15 6LF	Beds and Bedding	Consumer Products
1	79m E	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
B	80m SW	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
B	82m SW	Kirkgate Engineering Ltd	Ashton Clough Road, Millbridge, Liversedge, West Yorkshire, WF15 6JX	Metalworkers Including Blacksmiths	Construction Services
2	86m N	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
B	113m SW	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
C	125m N	Suspended Ceilings Ltd	Unit 2 Valley Road Business Park, Valley Road, Millbridge, Liversedge, West Yorkshire, WF15 6JY	Building and Component Suppliers	Construction Services
C	126m N	Supreme Labelling	Unit 6, Valley Road Business Park, Valley Road, Millbridge, Liversedge, West Yorkshire, WF15 6JY	Stationery, Stamps, Tags and Labels	Industrial Products
C	127m N	D T B Panther Trikes	Unit 4 Valley Road Business Park, Valley Road, Millbridge, Liversedge, West Yorkshire, WF15 6JY	Vehicle Components	Industrial Products
C	127m N	D T B Panther Trikes	Unit 4 Valley Road Business Park, Valley Road, Millbridge, Liversedge, West Yorkshire, WF15 6JY	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	130m SW	Ashton Clough Autos	19, Ashton Clough Road, Millbridge, Liversedge, West Yorkshire, WF15 6JX	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	137m N	Valley Road Business Park	West Yorkshire, WF15	Business Parks and Industrial Estates	Industrial Features

ID	Location	Company	Address	Activity	Category
3	149m E	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
C	149m N	Electricity Sub Station	West Yorkshire, WF15	Electrical Features	Infrastructure and Facilities
C	151m N	B L S Asbestos Ltd	Unit 7 Valley Road Business Park, Valley Road, Millbridge, Liversedge, West Yorkshire, WF15 6JY	Recycling, Reclamation and Disposal	Recycling Services
B	168m SW	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
D	170m E	Cross Lane Business Park	West Yorkshire, WF15	Business Parks and Industrial Estates	Industrial Features
E	181m NE	Asda Stores	Bradford Road, Liversedge, West Yorkshire, WF15 6JE	Petrol and Fuel Stations	Road and Rail
E	181m NE	Asda Express Liversedge	364, Bradford Road, Liversedge, West Yorkshire, WF15 6JE	Vehicle Cleaning Services	Personal, Consumer and Other Services
F	203m E	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
G	212m W	Vehicle Dismantlers	Halifax Road, Millbridge, Liversedge, West Yorkshire, WF15 6PS	Scrap Metal Merchants	Recycling Services
G	212m W	H Rawson Vehicle Dismantlers	Halifax Road, Millbridge, Liversedge, West Yorkshire, WF15 6PS	Scrap Metal Merchants	Recycling Services
4	225m E	Works	West Yorkshire, WF15	Unspecified Works Or Factories	Industrial Features
G	239m W	Mike Ives Classic Motorcycles	Unit 2, Station Yard, Halifax Road, Millbridge, Liversedge, West Yorkshire, WF15 6PS	New Vehicles	Motoring

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	**1**

Current or recent tanks identified from the Ordnance Survey® NGD.

Features are displayed on the Current industrial land use map on **page 61 >**

ID	Location	Tank description	Activity	Date first identified
A	27m N	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/04/2017

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 61 >**

ID	Location	Company	Address	LPG	Status
E	185m NE	ASDA EXPRESS	Bradford Road, Liversedge, West Yorkshire, WF15 6JE	No	Open

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 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.

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

Records within 500m	6

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 61 >**

ID	Location	Address	Details	
E	188m NE	Millbridge Filling Station, Bradford Road, Liversedge, WF15 6JE	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	299m W	Springwell Motors, Unit 1 Headlands Industrial Estate, Headlands Road, Liversedge, WF15 6PR	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
H	322m N	Syd Colman Tyre & Motor, Green Road, Littletown, Liversedge, WF15 6DN	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
L	349m E	CV Refinishers Ltd, 114 BMK Industrial Estate, Heckmondwike, WF15 6BS	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
M	408m SE	Yorkshire Spin Galvanizing Ltd, Unit 152, Bmk Industrial Estate, Off Wakefield Rd, Liversidge, Heckmondwike, WF15 6BS	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
5	413m SW	Dymond Trading Co Ltd, Dymond Works, Headlands Rd, Liversedge, WF15 6PR	Process: Pet Food Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.14 Licensed Discharges to controlled waters

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 61 >**

ID	Location	Address	Details	
6	435m NE	HARGREAVES FUEL OIL LEEDS ROAD LIVE, RSEDGE-TANKER WASHING EFFLUENT (, CEASED)	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: 2162 Permit Version: 1 Receiving Water: SPEN BECK	Status: REVOKED - UNSPECIFIED Issue date: 07/11/1966 Effective Date: 07/11/1966 Revocation Date: 17/08/1992

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

4.15 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.

4.16 Pollutant release to public sewer

Records within 500m	1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 61 >**

ID	Location	Address	Details	
F	199m E	SPEN VALLEY ELECTROPLATING CO LTD, FROST HILL, FROST HILL, LIVERSEDGE, WEST YORKSHIRE, WF15 6BH	Permission reference: AF4046 Local Authority: KIRKLEES METROPOLITAN BOROUGH COUNCIL First received date: 01/06/2001	Last received date: 01/01/2018 Status: RECEIVED

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

4.17 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.

4.18 List 2 Dangerous Substances

Records within 500m	0

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

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

4.19 Pollution Incidents (EA/NRW)

Records within 500m	19

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

Features are displayed on the Current industrial land use map on **page 61 >**

ID	Location	Details	
A	18m N	Incident Date: 04/10/2002 Incident Identification: 112720 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	152m E	Incident Date: 14/07/2003 Incident Identification: 173442 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	242m N	Incident Date: 15/07/2002 Incident Identification: 91724 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	274m N	Incident Date: 16/05/2002 Incident Identification: 79007 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
H	278m N	Incident Date: 29/07/2008 Incident Identification: 608998 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	297m W	Incident Date: 06/12/2002 Incident Identification: 124977 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
I	297m W	Incident Date: 06/12/2002 Incident Identification: 124977 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
I	297m W	Incident Date: 06/12/2002 Incident Identification: 124977 Pollutant: Atmospheric Pollutants and Effects:Contaminated Water Pollutant Description: Smoke:Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
J	322m N	Incident Date: 06/11/2002 Incident Identification: 119220 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	336m SE	Incident Date: 04/04/2007 Incident Identification: 482462 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	339m SE	Incident Date: 04/06/2013 Incident Identification: 1118624 Pollutant: Organic Chemicals/Products Pollutant Description: Adhesives	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	344m E	Incident Date: 04/09/2003 Incident Identification: 187373 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	354m N	Incident Date: 08/12/2009 Incident Identification: 738968 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	356m SE	Incident Date: 09/06/2005 Incident Identification: 318874 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
J	357m N	Incident Date: 25/04/2002 Incident Identification: 74518 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	364m N	Incident Date: 08/01/2002 Incident Identification: 51241 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
M	409m SE	Incident Date: 21/01/2002 Incident Identification: 53521 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
M	442m SE	Incident Date: 13/09/2003 Incident Identification: 189582 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	459m N	Incident Date: 13/06/2003 Incident Identification: 165715 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.20 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.

4.21 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.

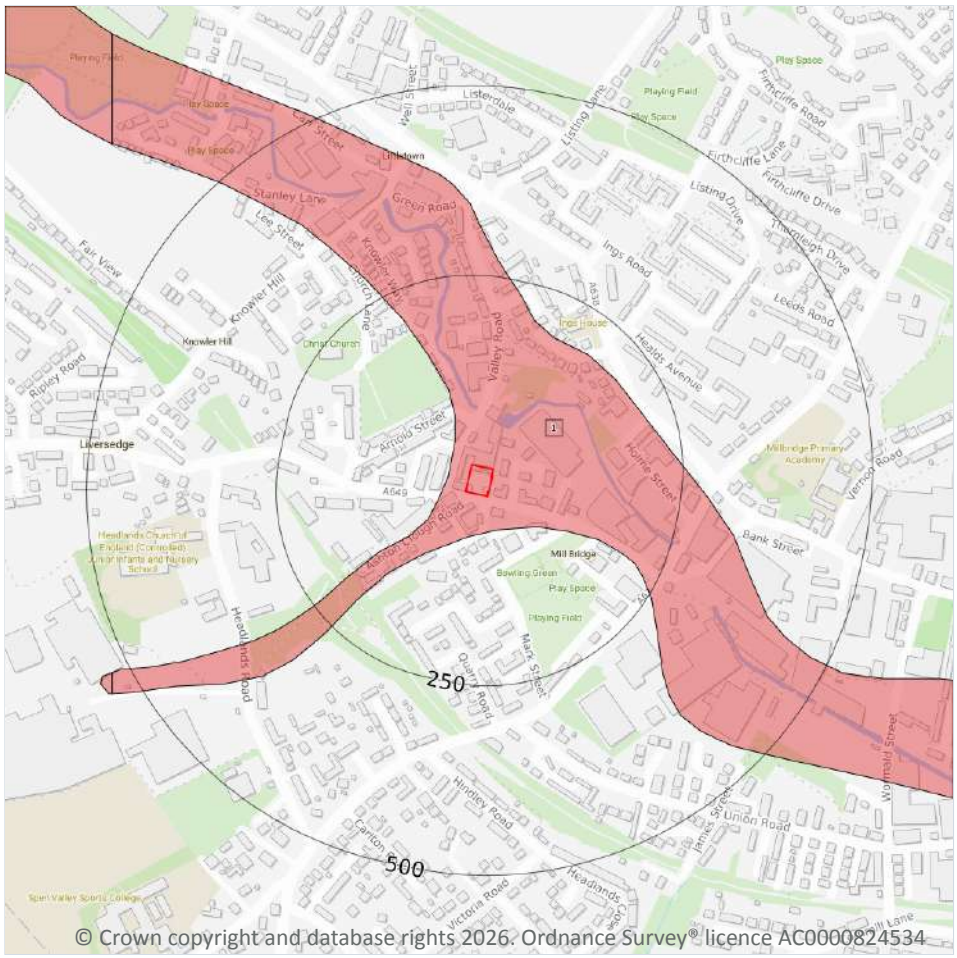
4.22 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



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Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	1

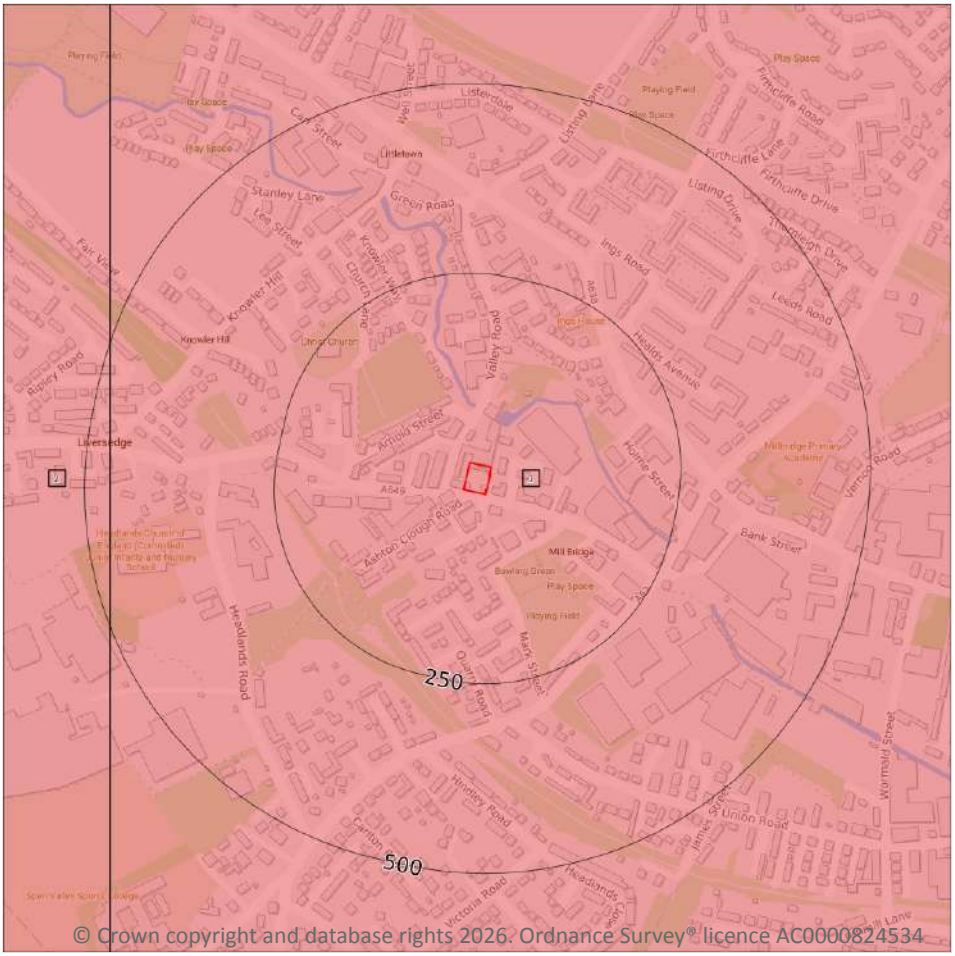
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 72 >**

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.

Bedrock aquifer



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5.2 Bedrock aquifer

Records within 500m	2

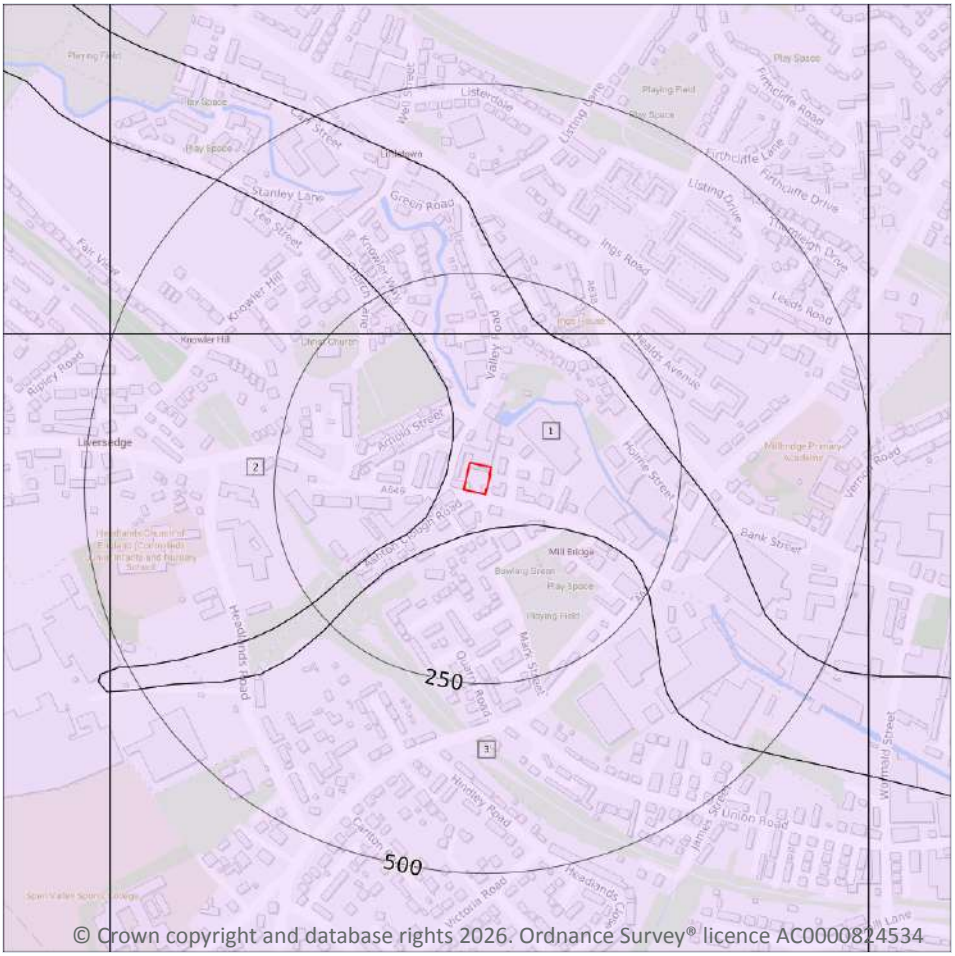
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 73 >**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	466m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	3

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 75 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures**
2	27m W	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	47m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones

5.6 Groundwater abstractions

Records within 2000m	0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

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

5.7 Surface water abstractions

Records within 2000m	0

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.

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.

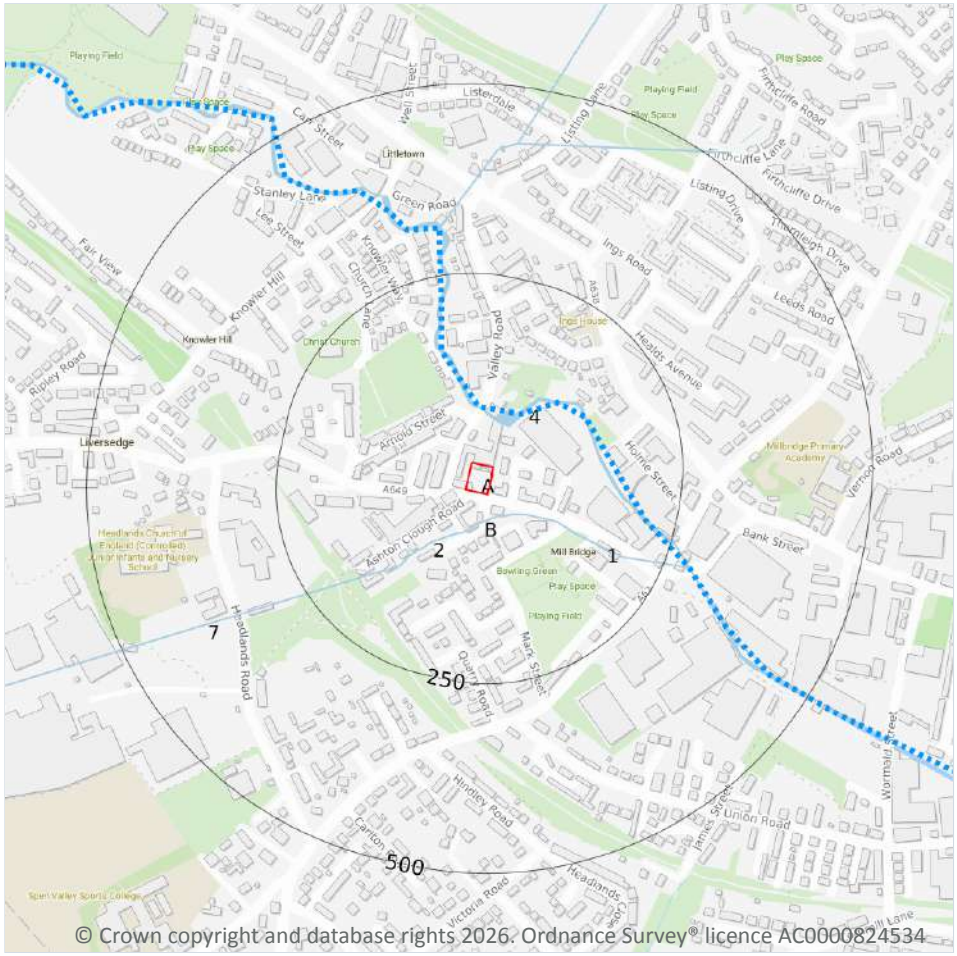
5.10 Source Protection Zones (confined aquifer)

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



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6.1 Water Network (OS NGD)

Records within 250m	6

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

Features are displayed on the Hydrology map on **page 79 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	32m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tanhouse Beck

ID	Location	Type of water feature	Ground level	Permanence	Name
B	37m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tanhouse Beck
1	56m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tanhouse Beck
2	56m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tanhouse Beck
4	64m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Spen River
7	124m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tanhouse Beck

This data is sourced from the Ordnance Survey®.

6.2 Surface water features

Records within 250m	2

Covering rivers, streams and lakes (some overlap with OS NGD 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 79 >**

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 79 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Spen Beck from Source to River Calder**	**GB104027062710**	**Calder Lower**	**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 79 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	75m N	River	Spen Beck from Source to River Calder	GB104027062710 ↗	No longer applicable	Does not require assessment	Moderate	2022

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

6.5 WFD Groundwater bodies

Records on site	**1**

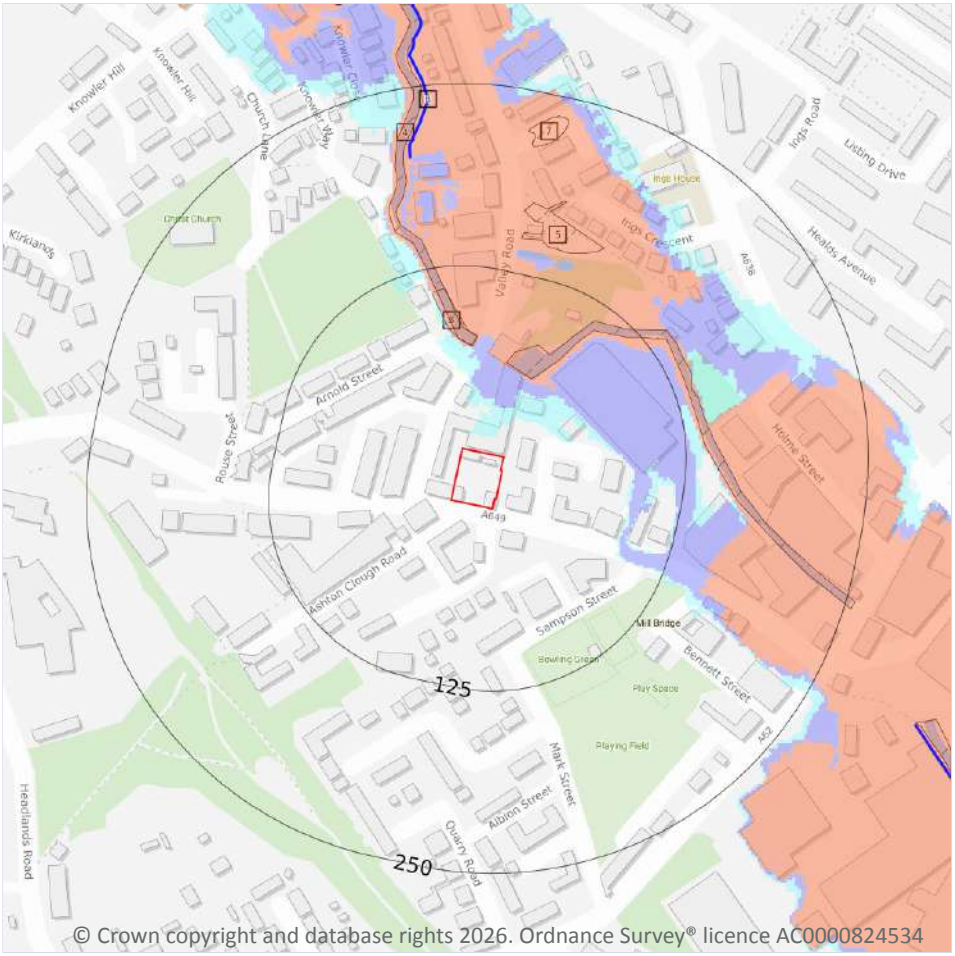
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 79 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**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



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	3

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).

Features are displayed on the River and coastal flooding map on **page 82 >**

Distance	Flood risk category
On site	**N/A**
0 - 50m	Medium

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

7.2 Historical Flood Events

Records within 250m	**5**

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

Features are displayed on the River and coastal flooding map on **page 82 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	57m N	2020 February Flood Incident - Storm Ciara/dennis	2020-02-08 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
3	71m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
4	71m N	2020 February Flood Incident - Storm Ciara/dennis	2020-02-08 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
5	147m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
7	212m N	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Drainage	Local drainage/surface water	No data

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

7.3 Flood Defences

Records within 250m	**1**

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.

Features are displayed on the River and coastal flooding map on **page 82 >**

ID	Location	Update
B	202m N	08/11/2022

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 82 >**

Location	Type
10m N	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m	1

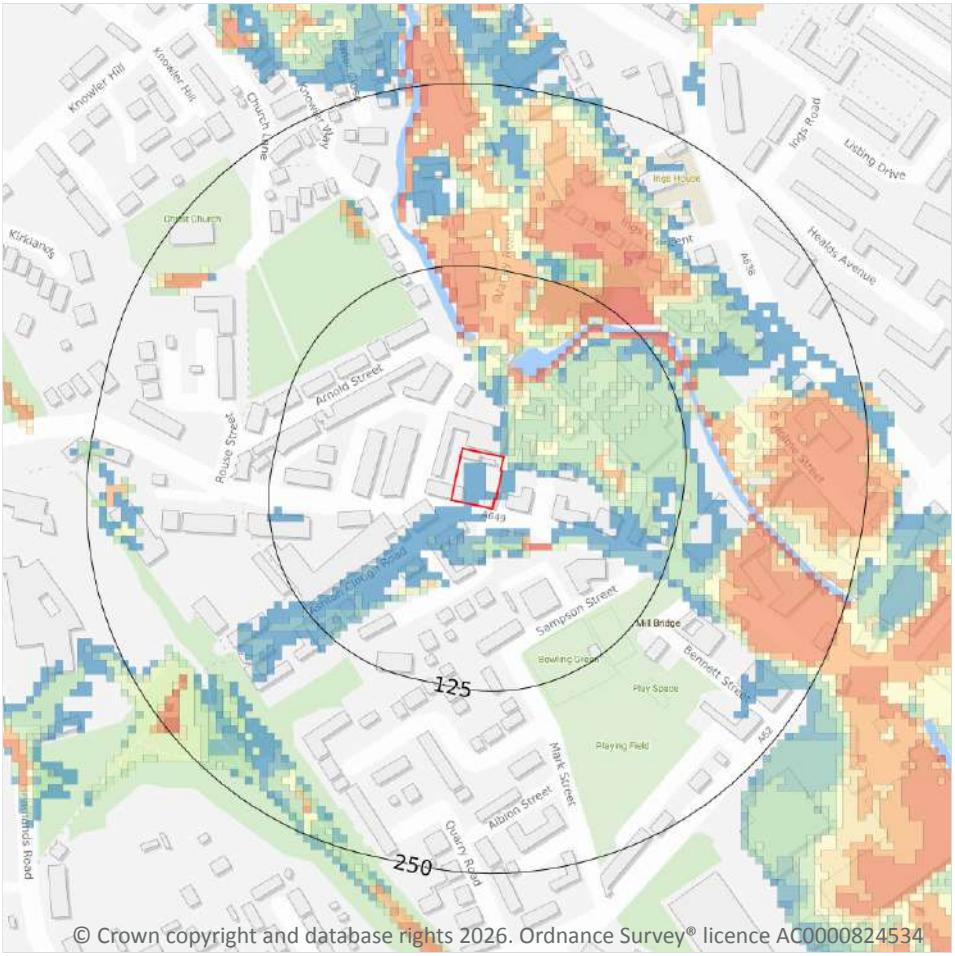
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 82 >**

Location	Type
14m SE	Zone 3 - (Fluvial /Tidal Models)

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

Highest risk on site	**1 in 1000 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 87 >**

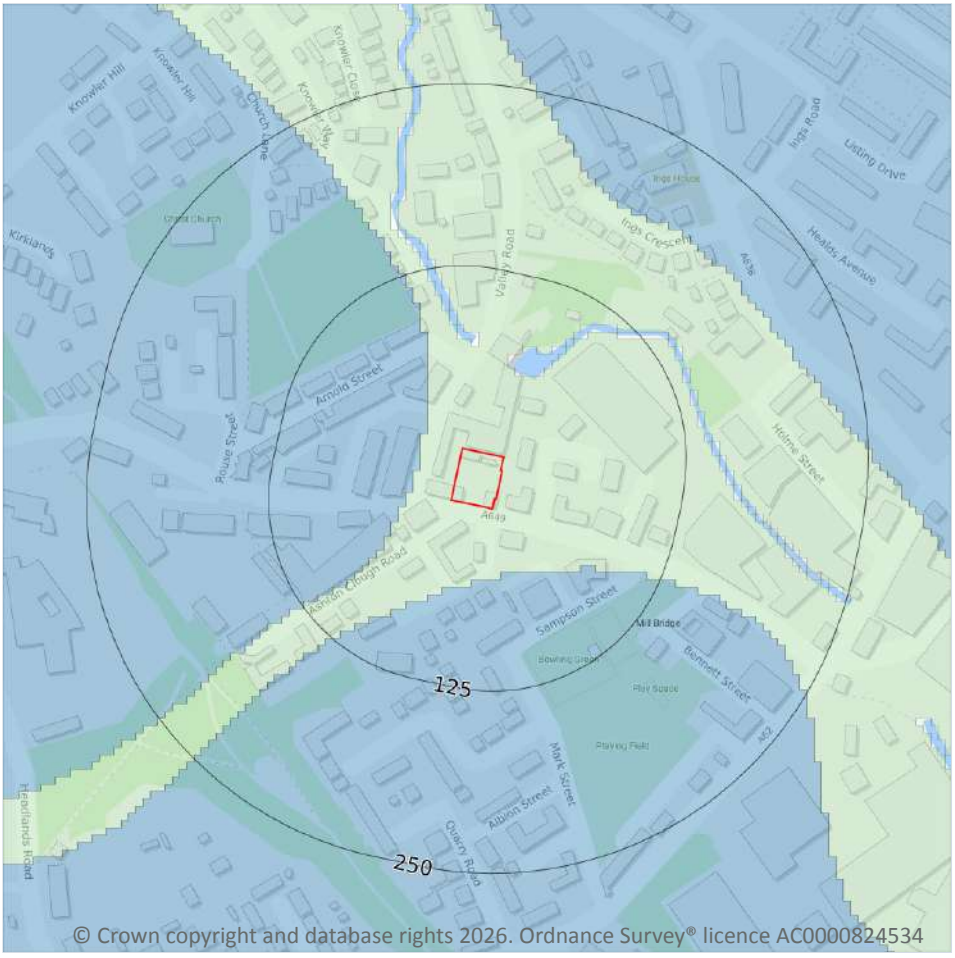
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Between 0.1m and 0.3m
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



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9.1 Groundwater flooding

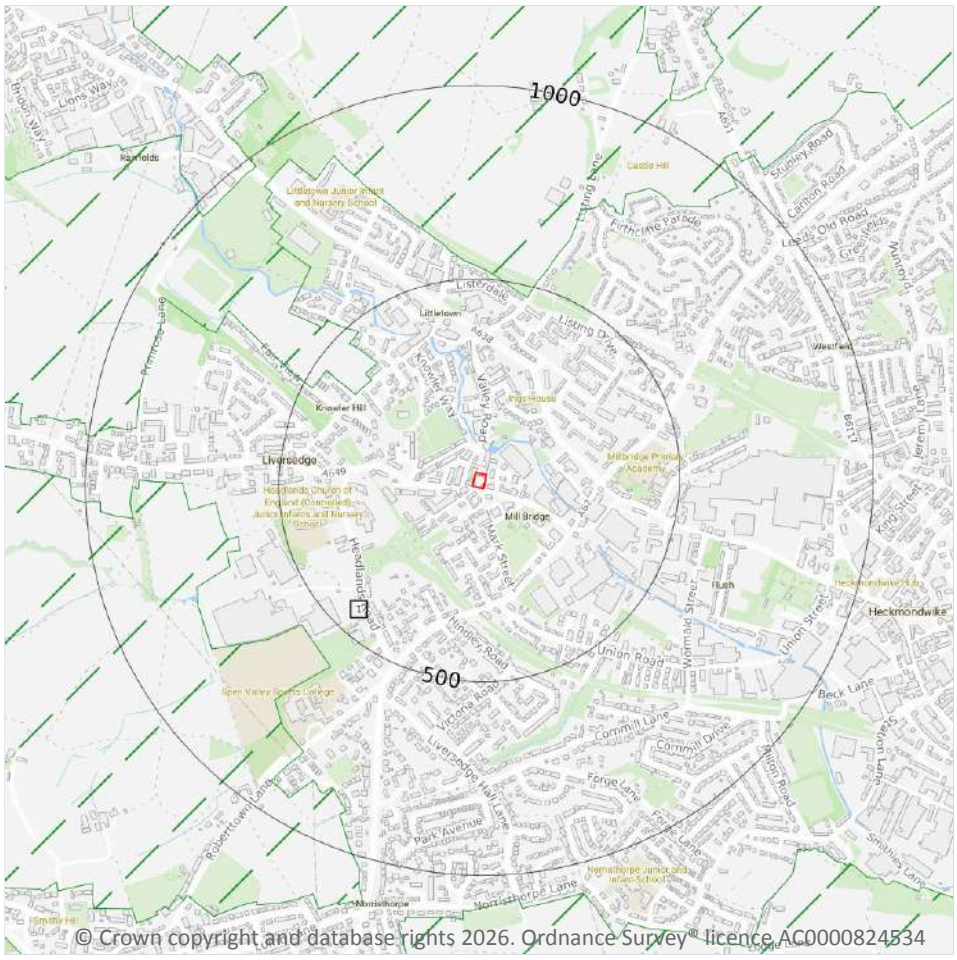
Highest risk on site	**Low**
Highest risk within 50m	**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 89 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 90 >**

ID	Location	Name	Local Authority name
1	359m NW	South and West Yorkshire Green Belt	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.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

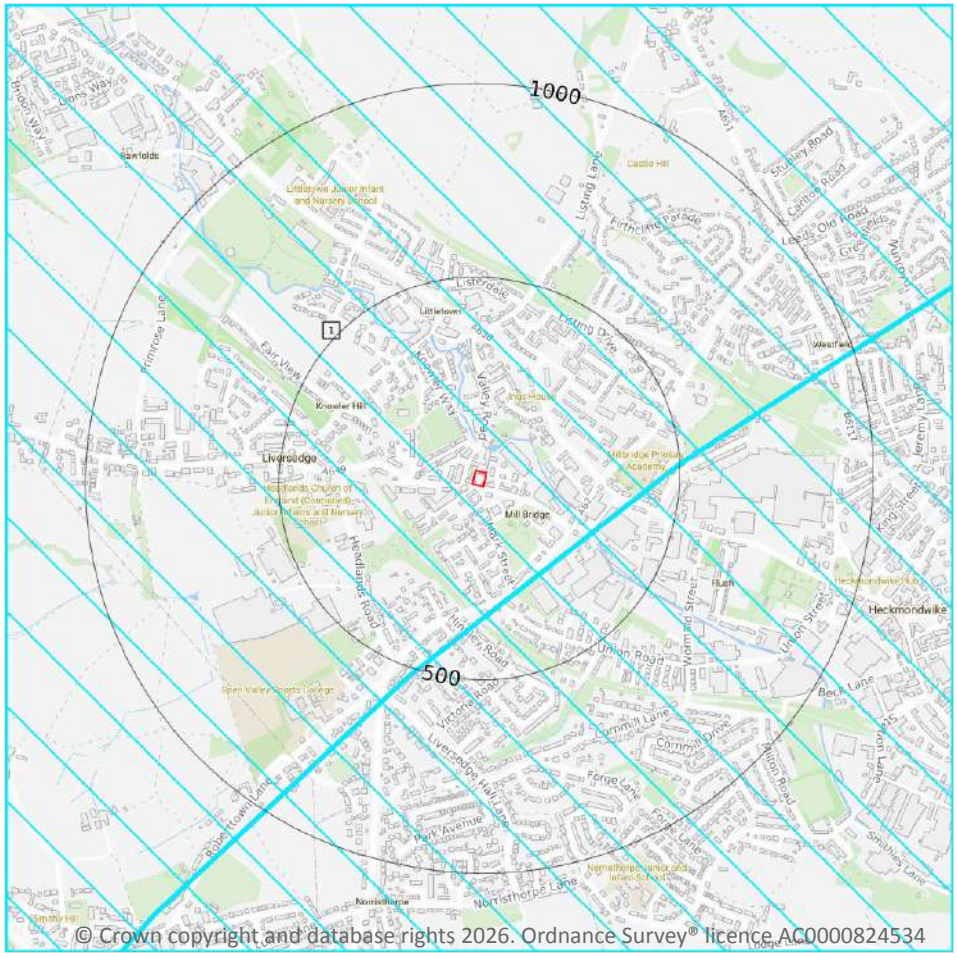
Records within 2000m	1

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

Location	Name	Type	NVZ ID	Status
On site	**Spen Beck from Source to River Calder NVZ**	**Surface Water**	**271**	**Existing**

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

SSSI Impact Zones and Units



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10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 95 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0000000000000&notes=&location=417554,424273%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations



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Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	1

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

Features are displayed on the Visual and cultural designations map on **page 97 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	237m NW	Christ Church	II	1313710	12/01/1967

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

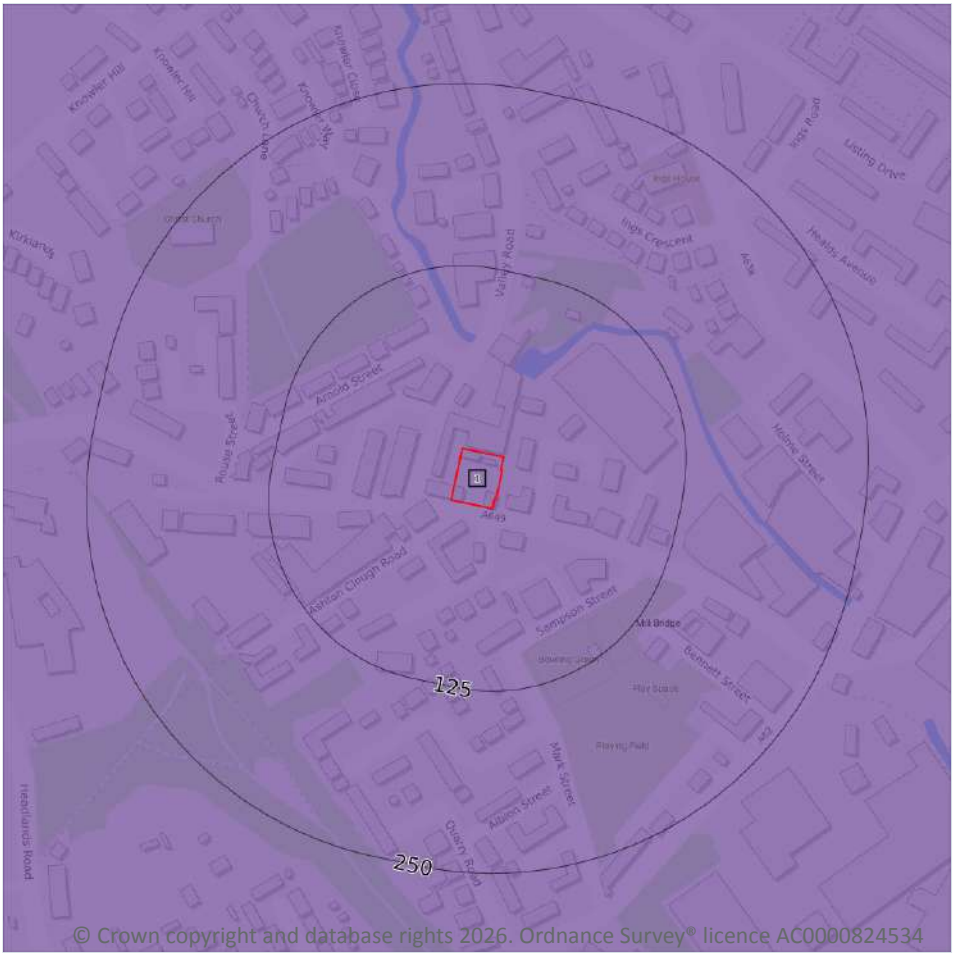
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 100 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**Non-agricultural/no quality assigned**

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

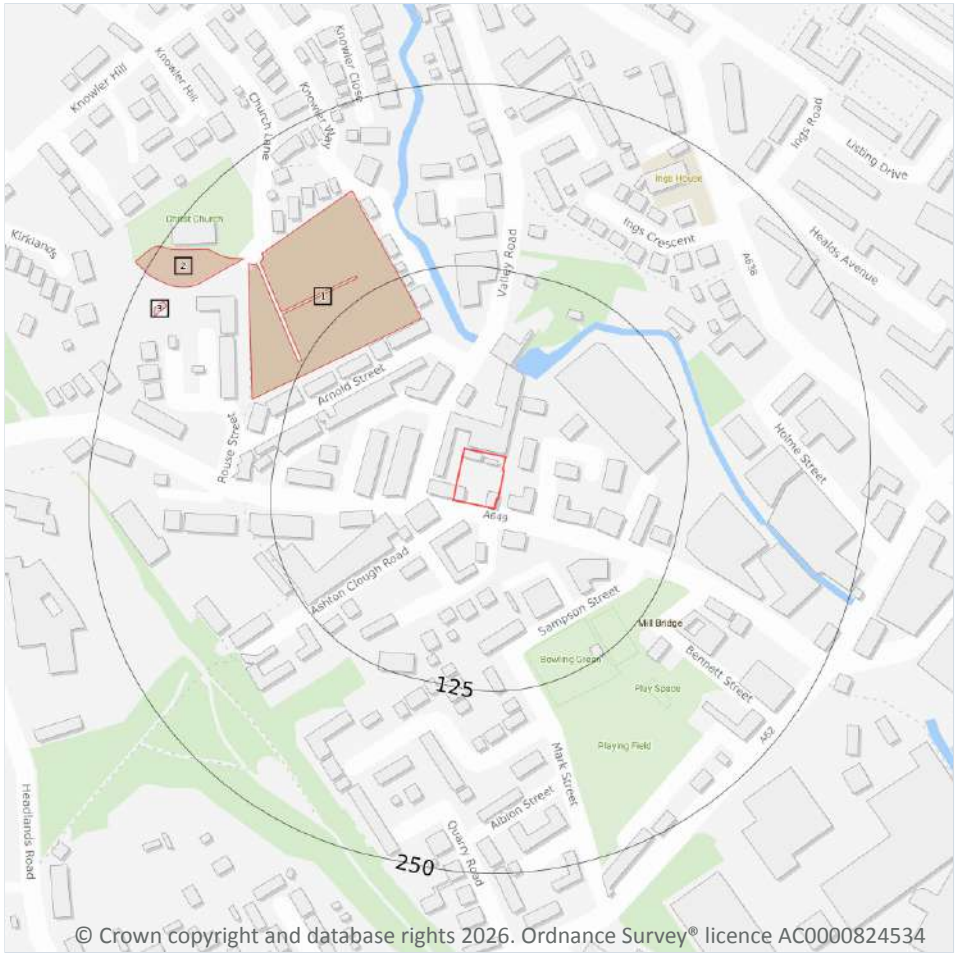
12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

13.1 Priority Habitat Inventory

Records within 250m	3

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

Features are displayed on the Habitat designations map on **page 102 >**

ID	Location	Main Habitat	Other habitats
1	93m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	200m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	226m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

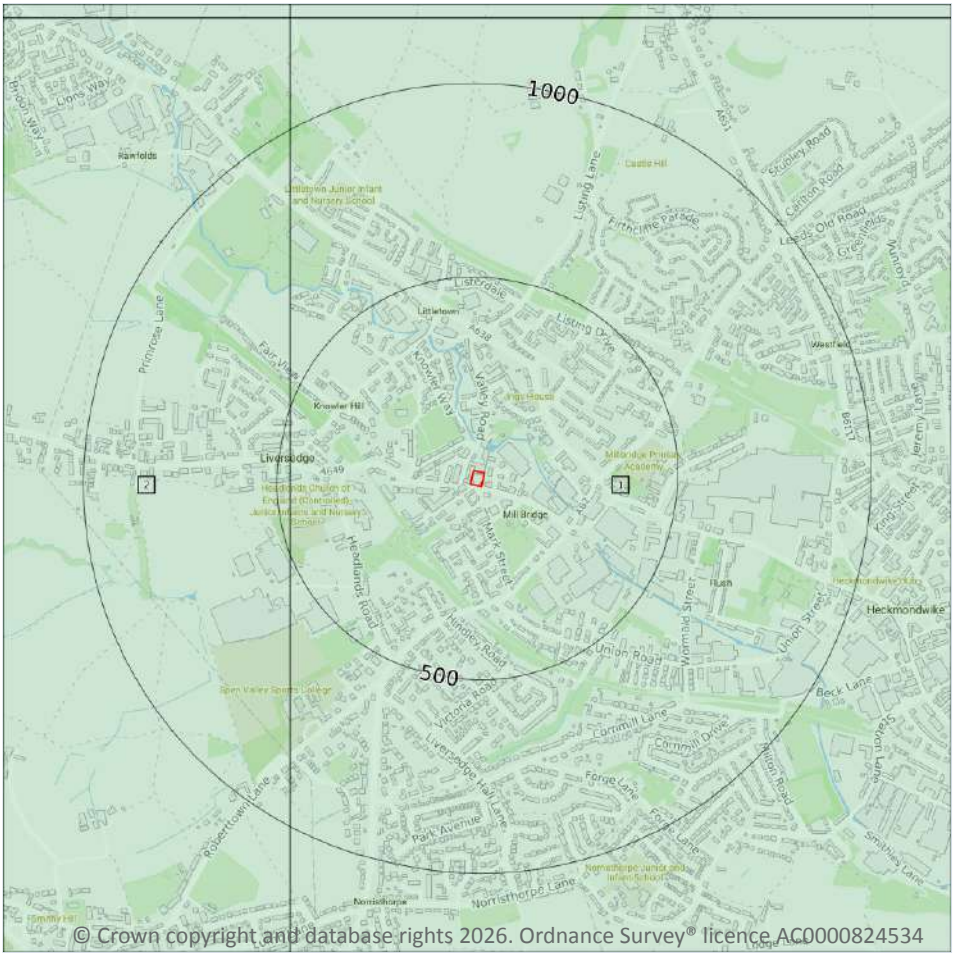
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	2

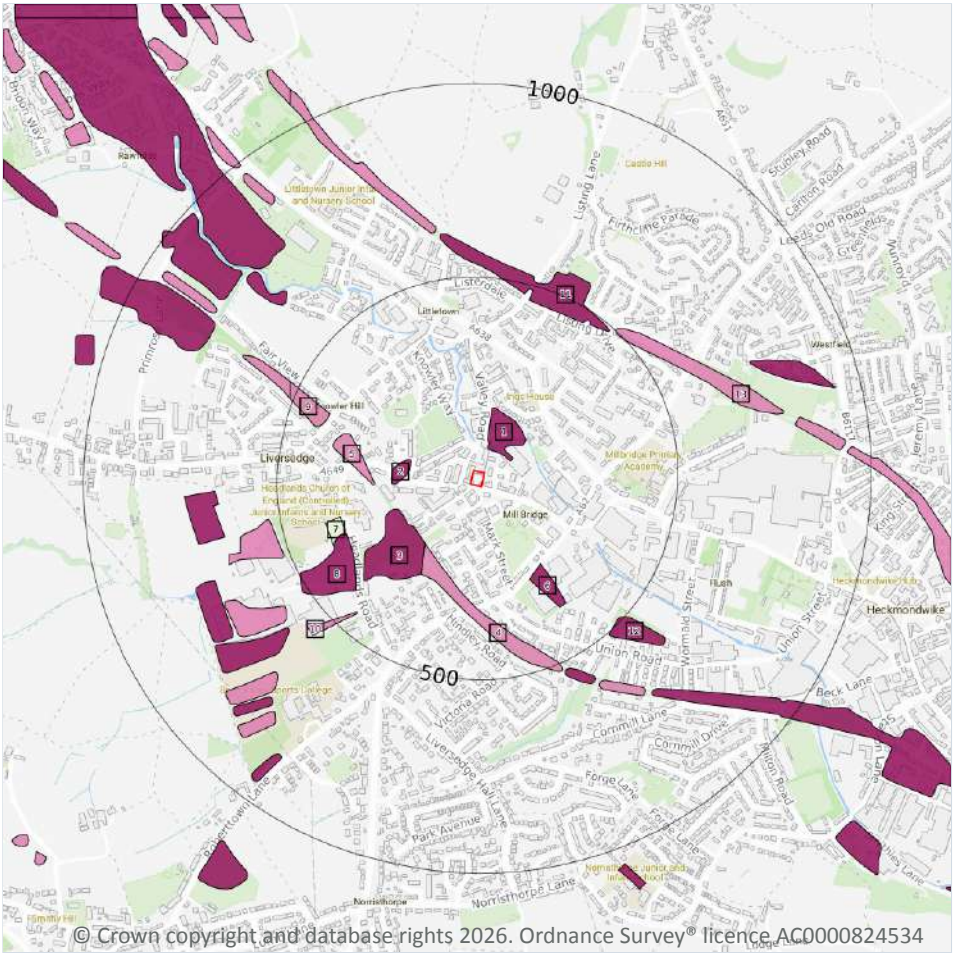
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 104 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE22SW**
2	466m W	Full	Full	Full	Full	SE12SE

This data is sourced from the British Geological Survey.

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



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14.2 Artificial and made ground (10k)

Records within 500m **13**

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

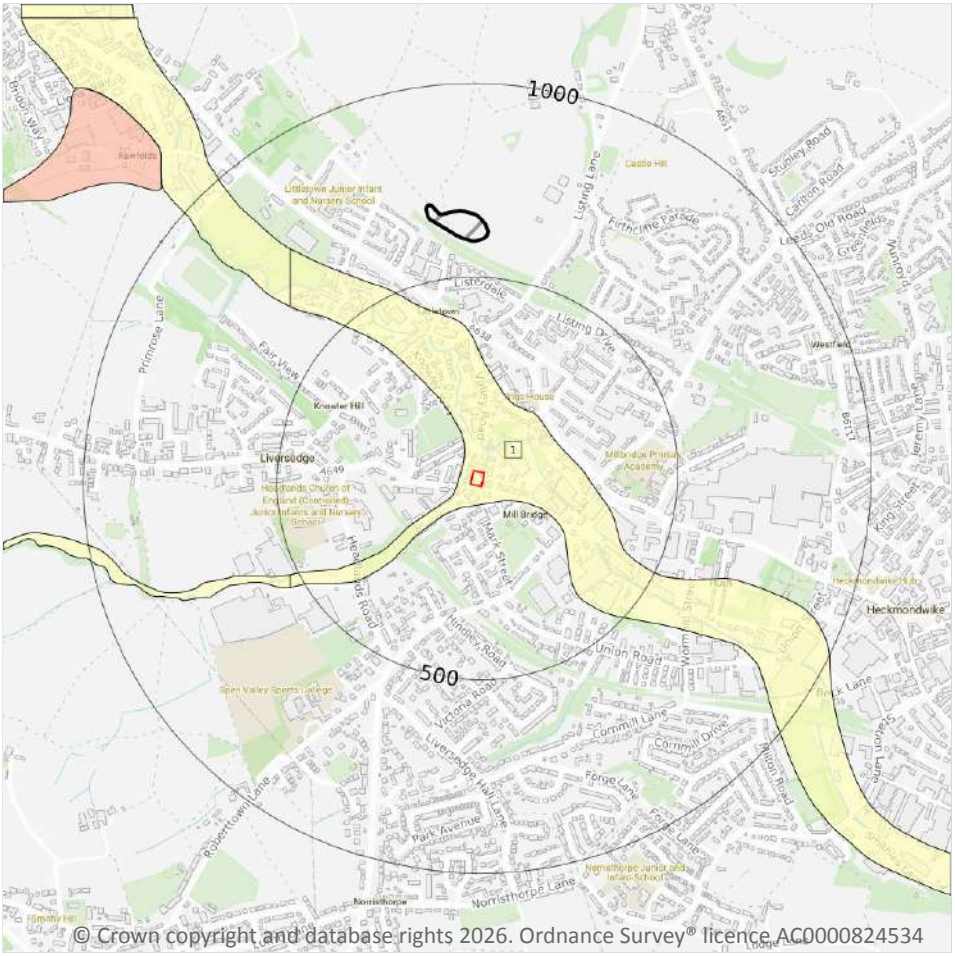
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 105 >**

ID	Location	LEX Code	Description	Rock description
1	61m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
2	161m W	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
3	183m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
4	193m SW	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
5	248m W	WGR-VOID	Worked Ground (Undivided)	Void
6	251m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
7	345m W	WMGR-ARTDP	Infilled Ground	Artificial deposit
8	345m W	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
9	399m W	WGR-VOID	Worked Ground (Undivided)	Void
10	442m SW	WGR-VOID	Worked Ground (Undivided)	Void
11	456m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
12	491m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
13	496m NE	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 107 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCSV**	**Alluvium-Clay, Sand And Gravel**	**Clay, sand and gravel**

This data is sourced from the British Geological Survey.

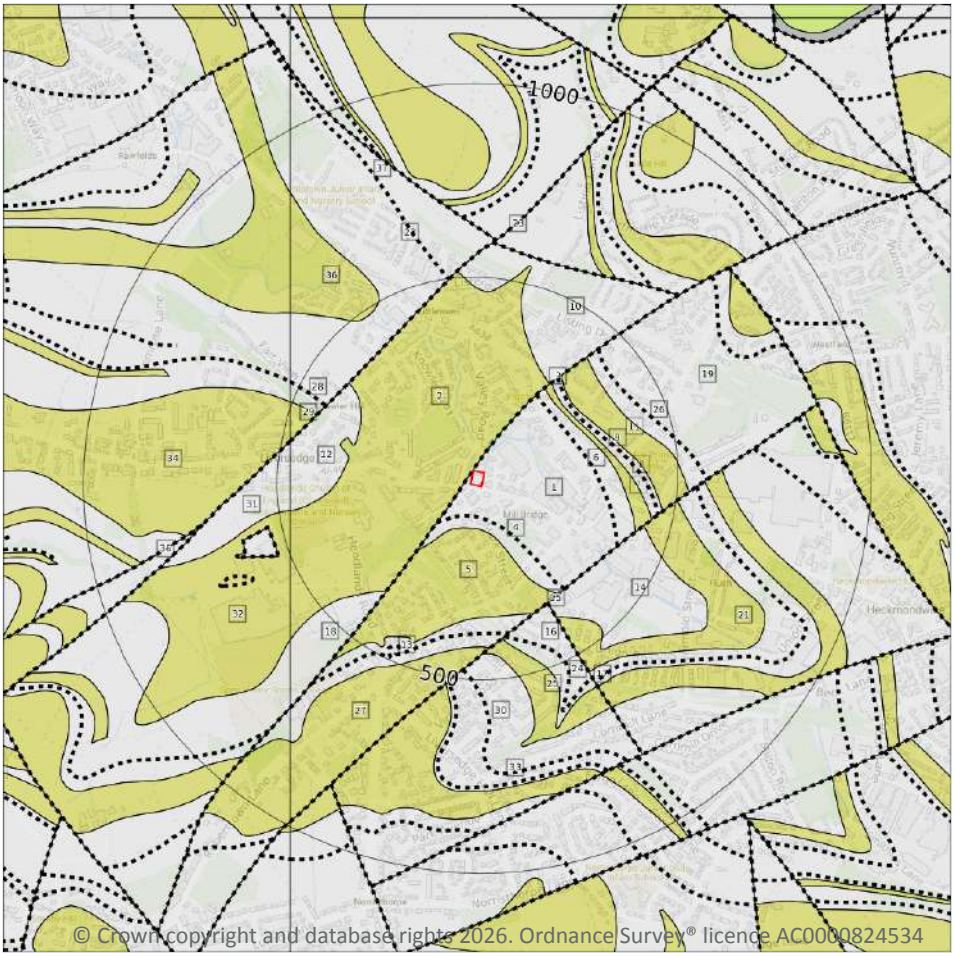
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m **23**

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 109 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone**	**Westphalian**
2	1m NW	FHR-SDST	Falhouse Rock-Sandstone	Westphalian
5	110m S	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
7	255m NE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
8	267m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
10	284m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
11	290m NE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
12	312m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
13	338m S	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
14	341m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
16	346m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
18	350m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
19	378m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
21	386m SE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
22	388m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
25	396m S	FHR-SDST	Falhouse Rock-Sandstone	Westphalian
27	415m S	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
29	430m W	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
30	433m S	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
31	466m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
32	471m W	FHR-SDST	Falhouse Rock-Sandstone	Westphalian
34	479m W	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
36	483m NW	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**14**

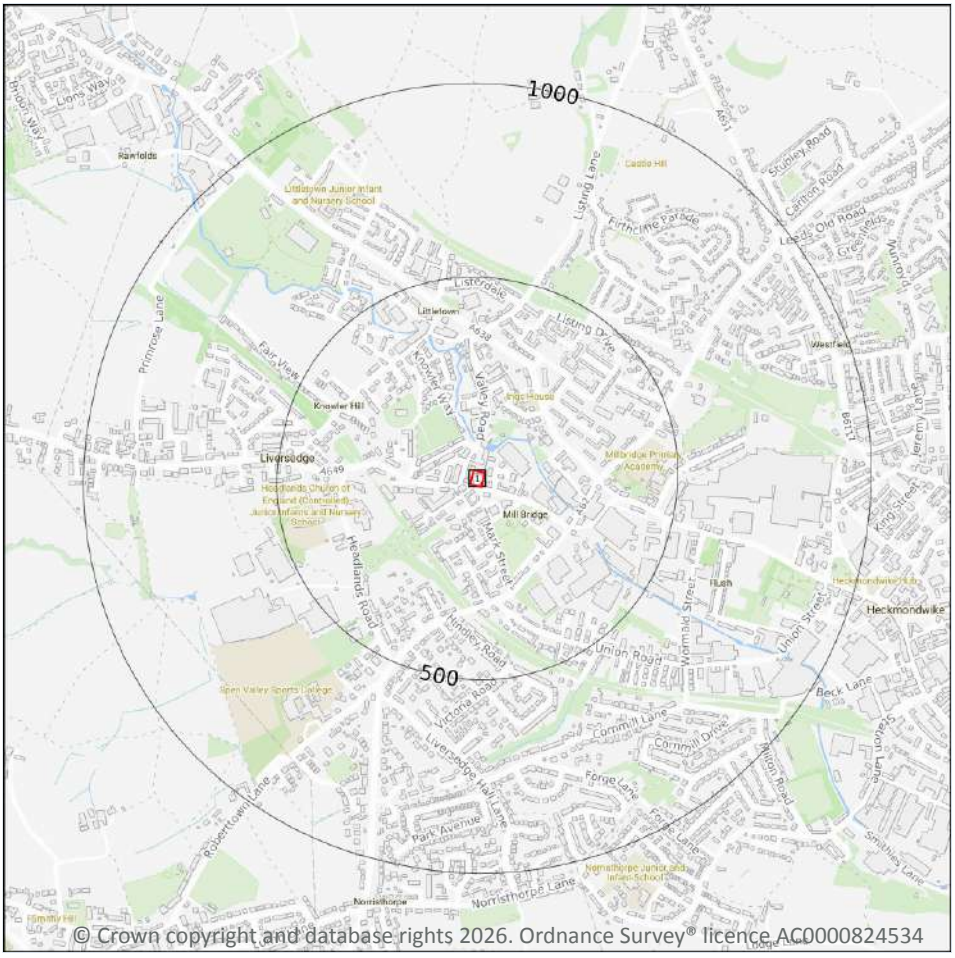
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 109 >**

ID	Location	Category	Description
3	1m NW	FAULT	Fault, inferred, displacement unknown
4	79m S	ROCK	Coal seam, inferred
6	230m NE	ROCK	Coal seam, inferred
9	281m NE	ROCK	Coal seam, inferred
15	341m SE	FAULT	Fault, inferred, displacement unknown
17	346m SE	FAULT	Fault, inferred, displacement unknown
20	381m S	ROCK	Coal seam, inferred
23	388m NW	FAULT	Fault, inferred, displacement unknown
24	392m S	ROCK	Coal seam, inferred
26	412m NE	ROCK	Coal seam, inferred
28	416m NW	ROCK	Coal seam, inferred
33	476m S	ROCK	Coal seam, inferred
35	479m W	FAULT	Fault, inferred, displacement unknown
37	498m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

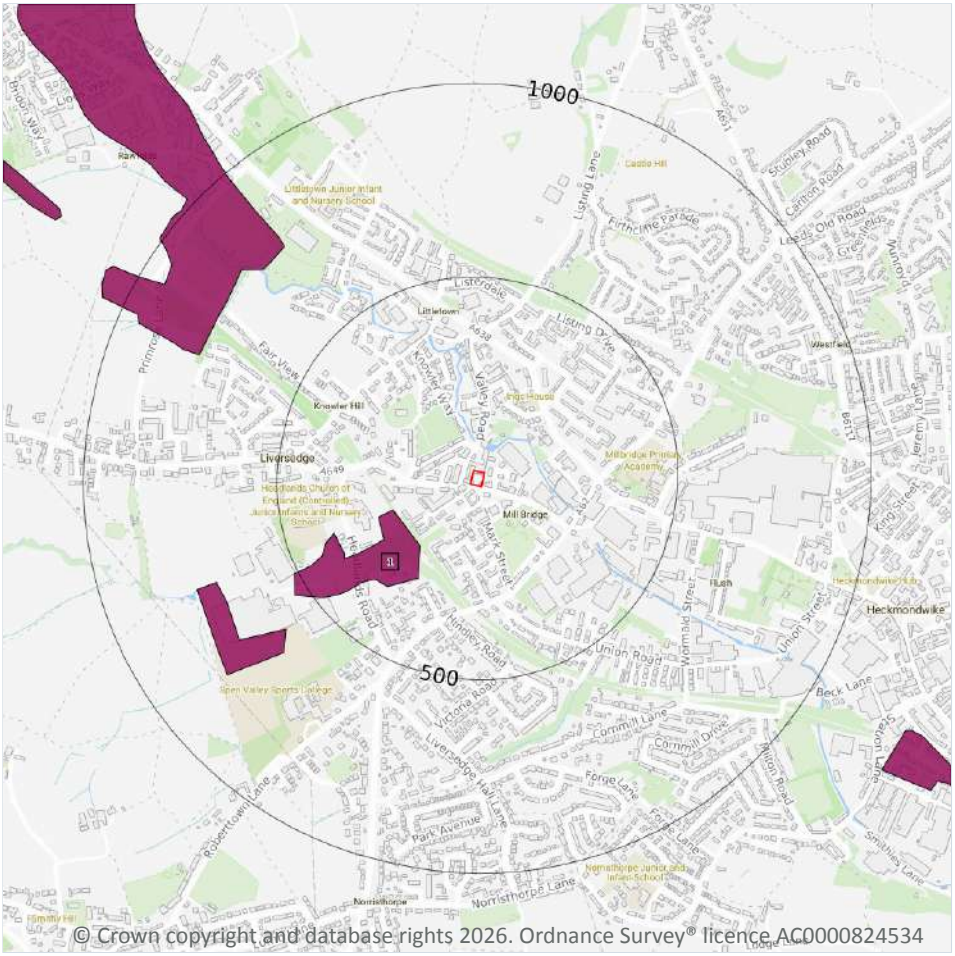
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 112 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW077_huddersfield_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 113 >**

ID	Location	LEX Code	Description	Rock description
1	200m SW	MGR-ARTDP	Made Ground	Artificial deposit

This data is sourced from the British Geological Survey.

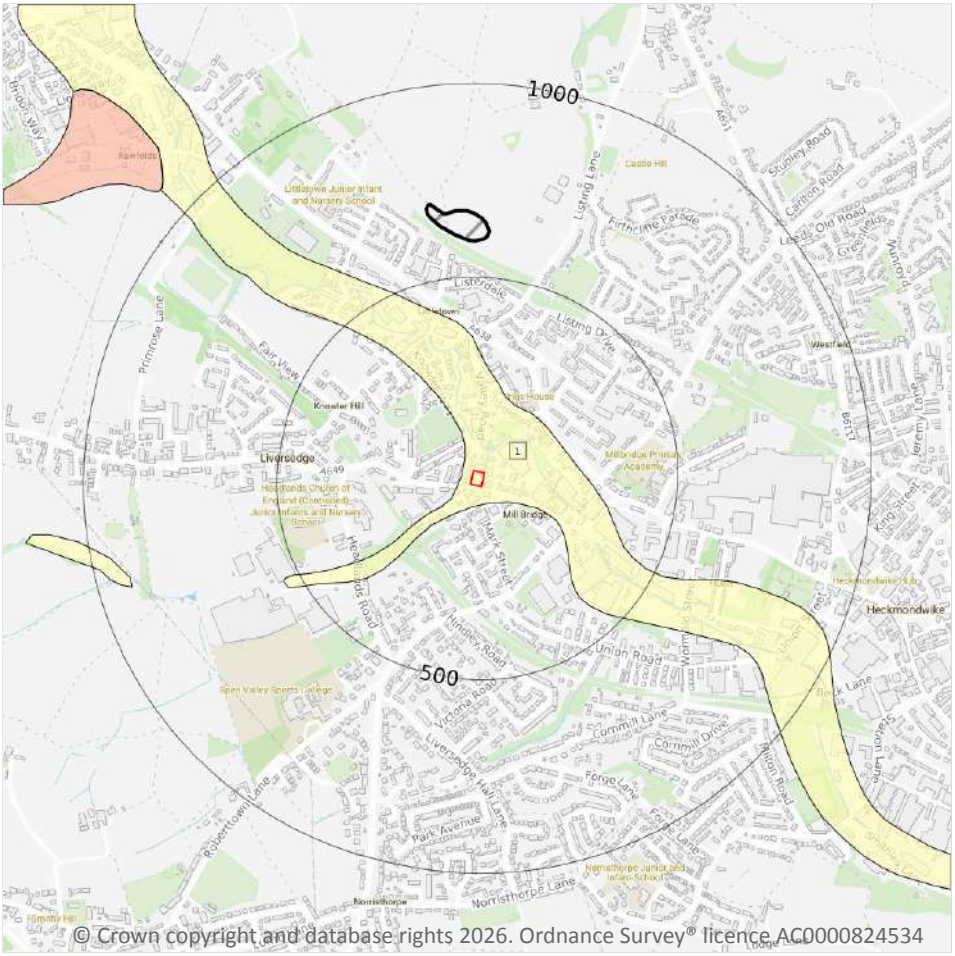
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	1

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 115 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCZSV**	**Alluvium**	**Clay, silt, sand and gravel**

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	20

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 117 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**FHR-SDST**	**Falhouse Rock-Sandstone**	**Westphalian**
2	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone**	**Westphalian**
5	115m S	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
7	249m NE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
8	271m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
9	284m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
10	291m NE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
12	310m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
13	339m S	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
14	345m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
16	350m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
19	351m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
20	379m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
22	387m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
24	389m SE	FHR-SDST	Falhouse Rock-Sandstone	Westphalian
26	409m S	FHR-SDST	Falhouse Rock-Sandstone	Westphalian
29	421m S	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
30	427m W	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
31	434m S	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
32	471m NW	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**High**	**Moderate**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	14

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 117 >**

ID	Location	Category	Description
3	**On site**	**FAULT**	**Fault, inferred, crossmark on downthrow side, throw in metres**
4	82m S	ROCK	Coal seam, inferred
6	221m NE	ROCK	Coal seam, inferred
11	291m NE	ROCK	Coal seam, inferred
15	345m SE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
17	350m SE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
18	350m SE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
21	383m S	ROCK	Coal seam, inferred
23	387m NW	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
25	397m S	ROCK	Coal seam, inferred
27	412m NW	ROCK	Coal seam, inferred
28	415m NE	ROCK	Coal seam, inferred
33	477m S	ROCK	Coal seam, inferred

ID	Location	Category	Description
34	494m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

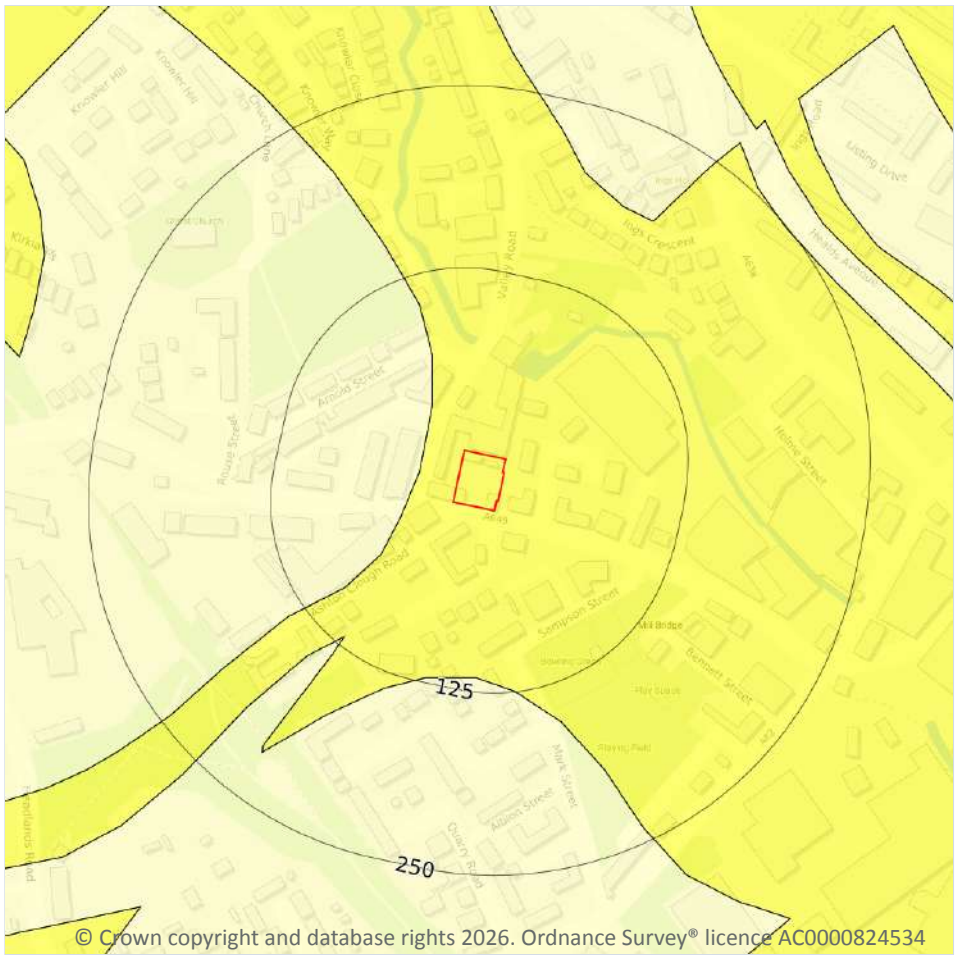
16.1 BGS Boreholes

Records within 250m	0

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

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

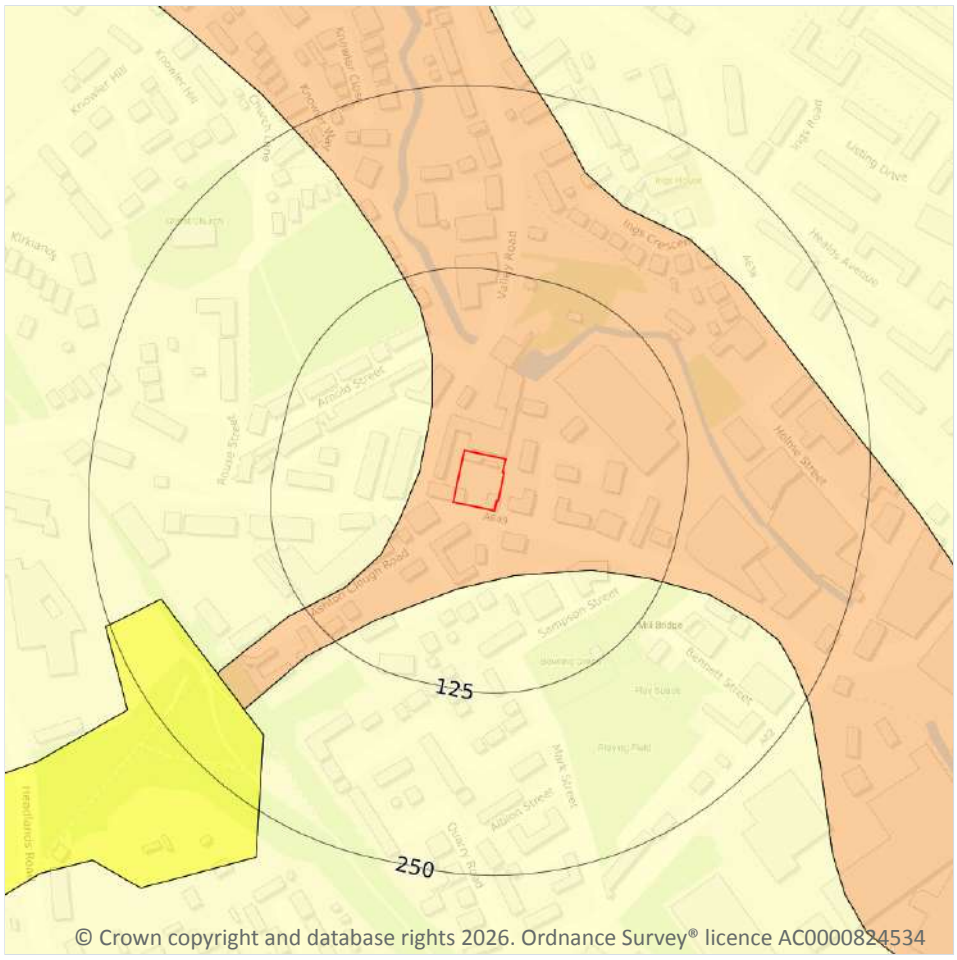
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 122 >**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
27m W	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	3

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

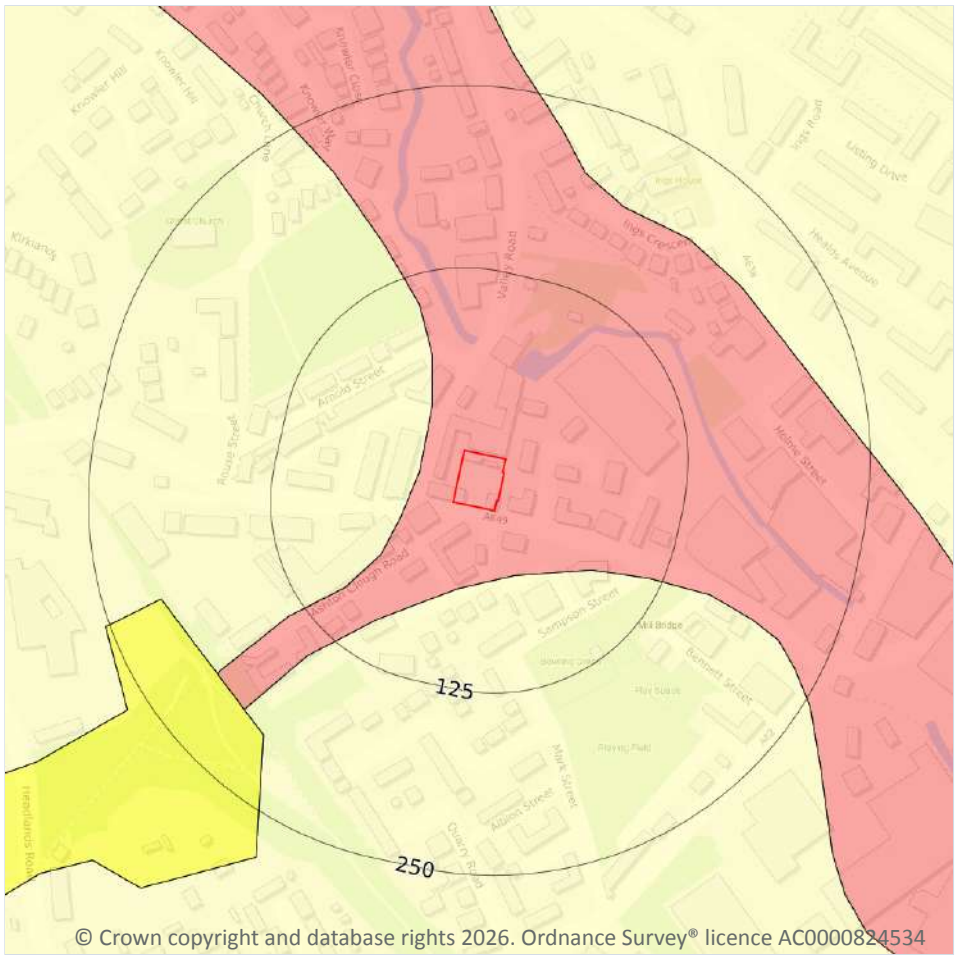
Features are displayed on the Natural ground subsidence - Running sands map on **page 123 >**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

Location	Hazard rating	Details
27m W	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
47m S	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	3

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

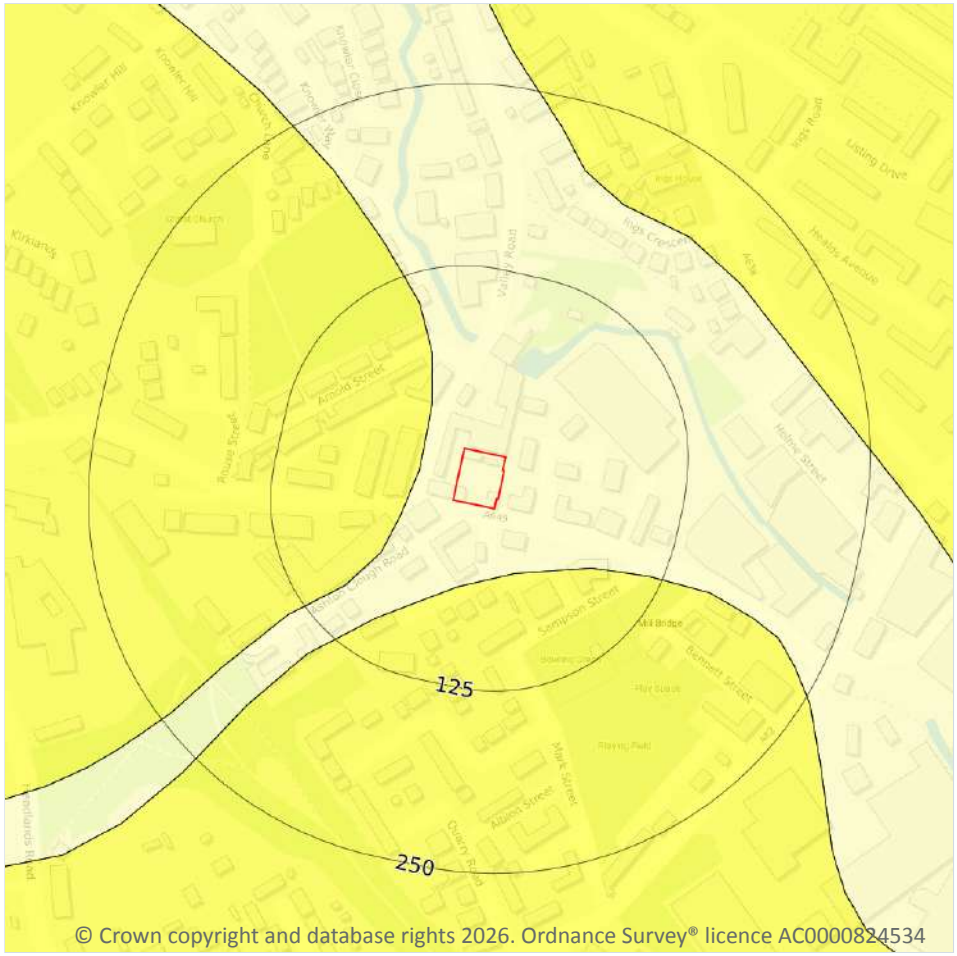
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 125 >**

Location	Hazard rating	Details
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**
27m W	Negligible	Compressible strata are not thought to occur.

Location	Hazard rating	Details
47m S	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	3

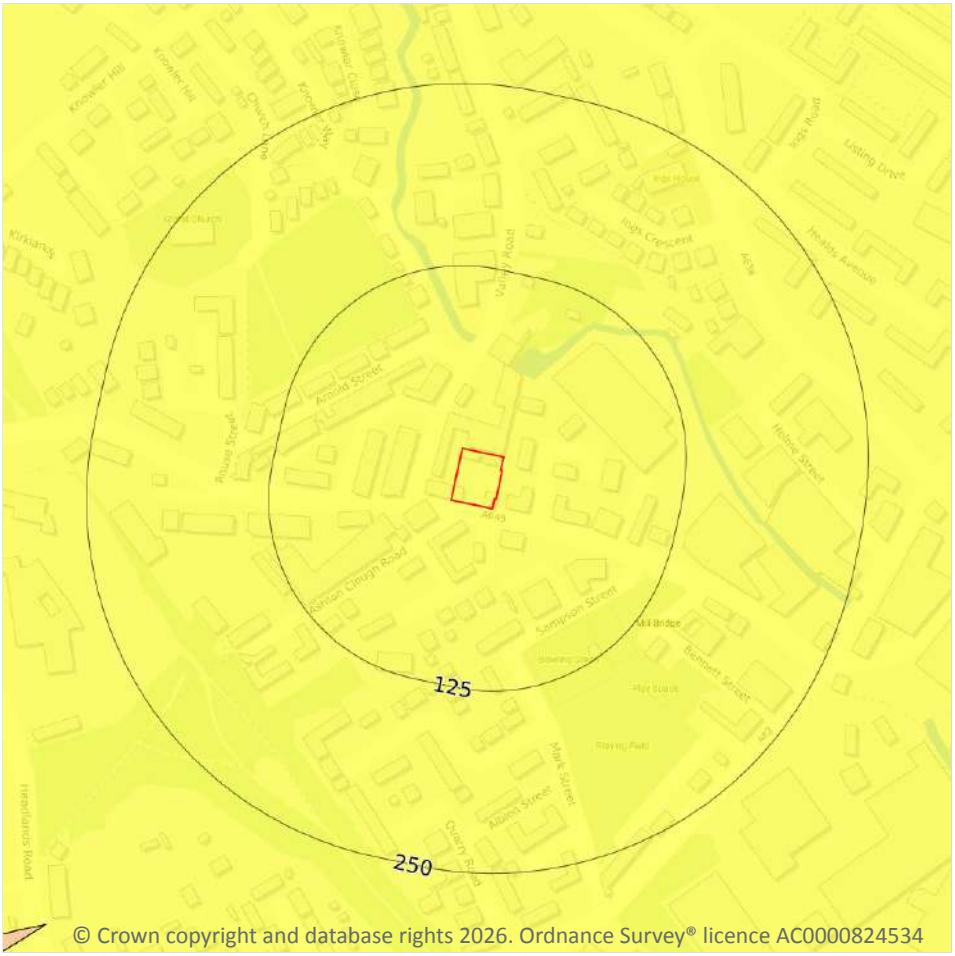
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 127 >**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**
27m W	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
47m S	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

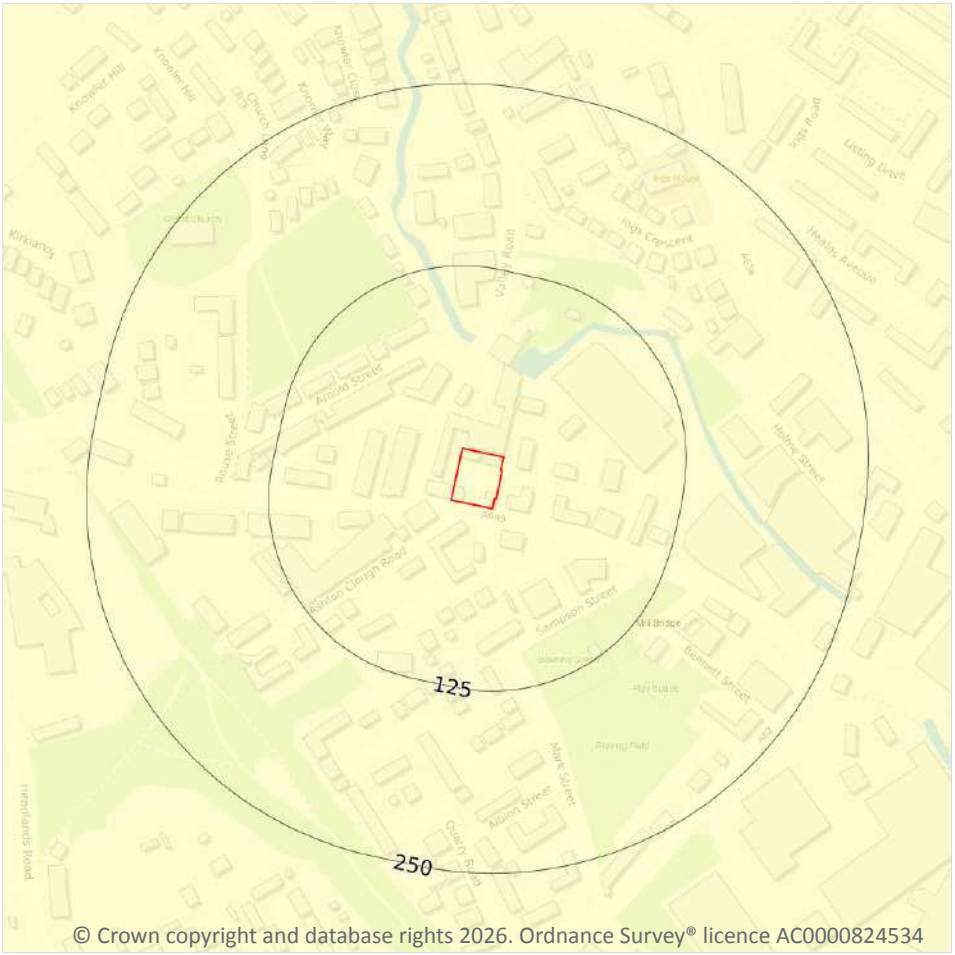
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 129 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

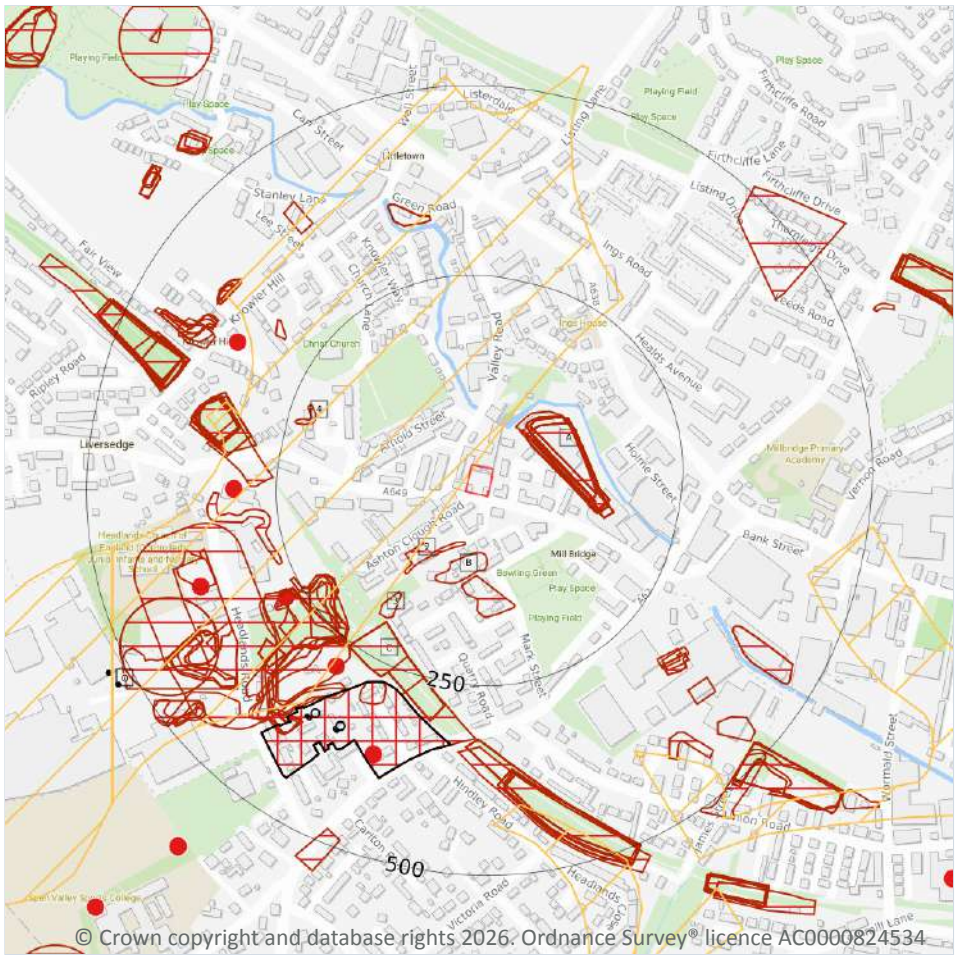
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 130 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	6

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

Features are displayed on the Mining and ground workings map on **page 132 >**

ID	Location	Details	Description
D	275m SW	Name: Tanhouse Mill Address: Liversedge, LIVERSEDGE, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
D	286m SW	Name: Strawberry Bank Address: Liversedge, LIVERSEDGE, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
E	306m W	Name: Mill Bridge Colliery Address: Liversedge, LIVERSEDGE, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
6	349m NW	Name: The Parsonage Address: Liversedge, LIVERSEDGE, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
D	367m S	Name: The Yew Tree Inn Address: LIVERSEDGE, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
J	371m W	Name: Tanhouse Mill Address: Liversedge, LIVERSEDGE, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**31**

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

Features are displayed on the Mining and ground workings map on **page 132 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	60m NE	Reservoir	1948	1:10560
A	60m NE	Reservoir	1931	1:10560
A	60m NE	Mill Pond	1905	1:10560
A	60m NE	Mill Pond	1892	1:10560
A	60m NE	Reservoir	1938	1:10560
A	63m NE	Reservoir	1955	1:10560
2	65m S	Ponds	1892	1:10560
A	70m NE	Reservoir	1931	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
A	70m NE	Reservoir	1931	1:10560
A	75m NE	Reservoir	1988	1:10000
A	75m NE	Reservoir	1981	1:10000
A	75m NE	Pond	1974	1:10000
A	75m NE	Reservoir	1967	1:10560
B	75m S	Unspecified Ground Workings	1892	1:10560
B	106m S	Unspecified Pit	1892	1:10560
3	159m SW	Unspecified Heap	1892	1:10560
C	201m SW	Cuttings	1988	1:10000
C	201m SW	Cuttings	1981	1:10000
C	201m SW	Cuttings	1974	1:10000
D	208m SW	Cuttings	1988	1:10000
D	208m SW	Cuttings	1981	1:10000
D	211m SW	Cuttings	1974	1:10000
D	211m SW	Cuttings	1967	1:10560
D	214m SW	Unspecified Ground Workings	1931	1:10560
D	214m SW	Unspecified Ground Workings	1931	1:10560
4	215m W	Refuse Heap	1892	1:10560
D	217m SW	Unspecified Pit	1892	1:10560
C	230m S	Cuttings	1967	1:10560
D	240m SW	Refuse Heap	1955	1:10560
D	249m SW	Refuse Heap	1931	1:10560
D	249m SW	Refuse Heap	1931	1:10560

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

18.3 Underground workings

Records within 1000m	26

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

Features are displayed on the Mining and ground workings map on **page 132 >**

ID	Location	Land Use	Year of mapping	Mapping scale
D	273m SW	Colliery	1905	1:10560
D	273m SW	Colliery	1892	1:10560
D	345m SW	Unspecified Disused Shafts	1967	1:10560
D	347m SW	Unspecified Disused Shafts	1967	1:10560
D	355m SW	Unspecified Old Shafts	1955	1:10560
D	356m SW	Unspecified Old Shafts	1948	1:10560
D	360m SW	Unspecified Old Shafts	1955	1:10560
D	360m SW	Unspecified Old Shafts	1948	1:10560
Q	522m SW	Unspecified Shaft	1905	1:10560
Q	522m SW	Unspecified Shaft	1892	1:10560
Q	526m SW	Unspecified Shaft	1931	1:10560
Q	526m SW	Unspecified Shaft	1905	1:10560
Q	526m SW	Unspecified Shaft	1892	1:10560
-	650m S	Air Shaft	1892	1:10560
-	755m W	Colliery	1892	1:10560
-	761m W	Disused Colliery	1951	1:10560
-	763m W	Disused Colliery	1948	1:10560
-	763m W	Disused Colliery	1931	1:10560
-	763m W	Colliery	1905	1:10560
-	785m E	Colliery	1905	1:10560
-	785m E	Colliery	1892	1:10560
-	801m SE	Disused Colliery	1905	1:10560
-	862m SW	Colliery	1892	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	876m NW	Air Shaft	1931	1:10560
-	887m S	Unspecified Old Shaft	1892	1:10560
-	960m SW	Unspecified Shaft	1892	1:10560

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

18.4 Underground mining extents

Records within 500m	**0**

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	**8**

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

Features are displayed on the Mining and ground workings map on **page 132 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Leeds/Bradford area**	**Iron Ore (Bedded)**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**

ID	Location	Name	Commodity	Class	Likelihood
8	389m SE	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	409m S	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
13	472m W	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	671m N	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	721m N	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	812m N	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	960m N	Leeds/Bradford area	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

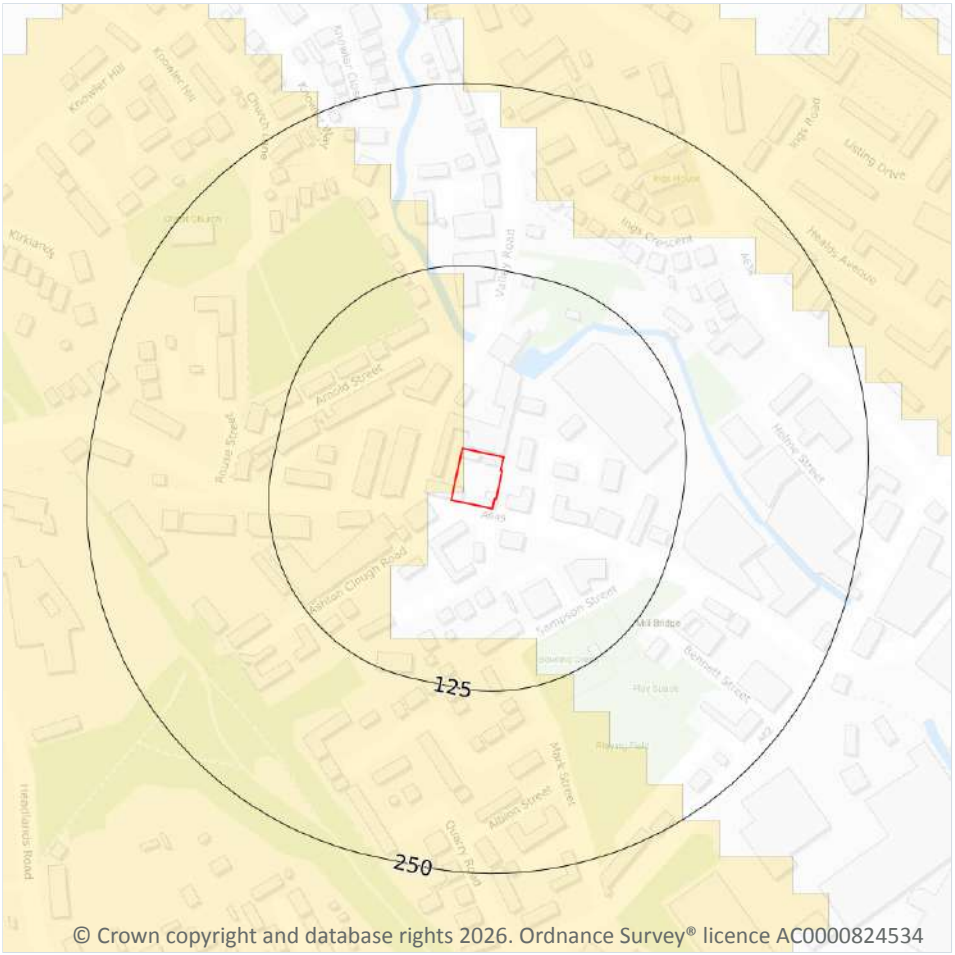
Records within 500m	0

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

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

This data is sourced from Groundsure.

20 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	2

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

Features are displayed on the Radon map on **page 144 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	7

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**120 - 180 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**120 - 180 mg/kg**	**30 - 45 mg/kg**
On site	**35 - 45 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
27m W	35 - 45 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m N	35 - 45 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
47m S	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
47m S	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m	42

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

Features are displayed on the Railway infrastructure and projects map on **page 148 >**

Location	Land Use	Year of mapping	Mapping scale
175m SW	Railway Sidings	1967	10560
177m W	Railway Sidings	1955	10560
186m W	Railway Sidings	1922	2500
187m W	Railway Sidings	1933	2500
187m W	Railway Sidings	1938	2500
188m SW	Railway Sidings	1948	10560
188m SW	Railway Sidings	1905	10560
188m SW	Railway Sidings	1892	10560
190m SW	Railway Sidings	1931	10560
192m SW	Railway Sidings	1956	1250
193m W	Railway Sidings	1958	2500
196m W	Railway Sidings	1931	10560
198m W	Railway Sidings	1894	2500
200m SW	Railway Sidings	1938	10560
200m W	Railway Sidings	1907	2500
212m SW	Railway Sidings	1907	2500
212m SW	Railway Sidings	1894	2500

Location	Land Use	Year of mapping	Mapping scale
212m SW	Railway Sidings	1933	2500
213m SW	Railway Sidings	1922	2500
213m SW	Railway Sidings	1931	10560
218m W	Railway Sidings	1938	2500
218m W	Railway Sidings	1933	2500
218m W	Railway Sidings	1922	2500
218m W	Railway Sidings	1907	2500
218m SW	Railway Sidings	1938	10560
219m SW	Railway Sidings	1956	1250
223m SW	Railway Sidings	1931	10560
228m SW	Railway Sidings	1938	10560
228m SW	Railway Sidings	1938	2500
228m SW	Railway Sidings	1933	2500
228m SW	Railway Sidings	1922	2500
228m SW	Railway Sidings	1894	2500
228m SW	Railway Sidings	1907	2500
236m SW	Railway Sidings	1938	2500
236m SW	Railway Sidings	1933	2500
236m SW	Railway Sidings	1922	2500
236m SW	Railway Sidings	1894	2500
236m SW	Railway Sidings	1907	2500
248m SW	Railway Sidings	1933	2500
248m SW	Railway Sidings	1938	2500
248m SW	Railway Sidings	1922	2500
248m SW	Railway Sidings	1907	2500

This data is sourced from Ordnance Survey®/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	4

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

Features are displayed on the Railway infrastructure and projects map on **page 148 >**

Location	Description
204m SW	Historical OSM
205m SW	Historical OSM
207m SW	Abandoned
208m SW	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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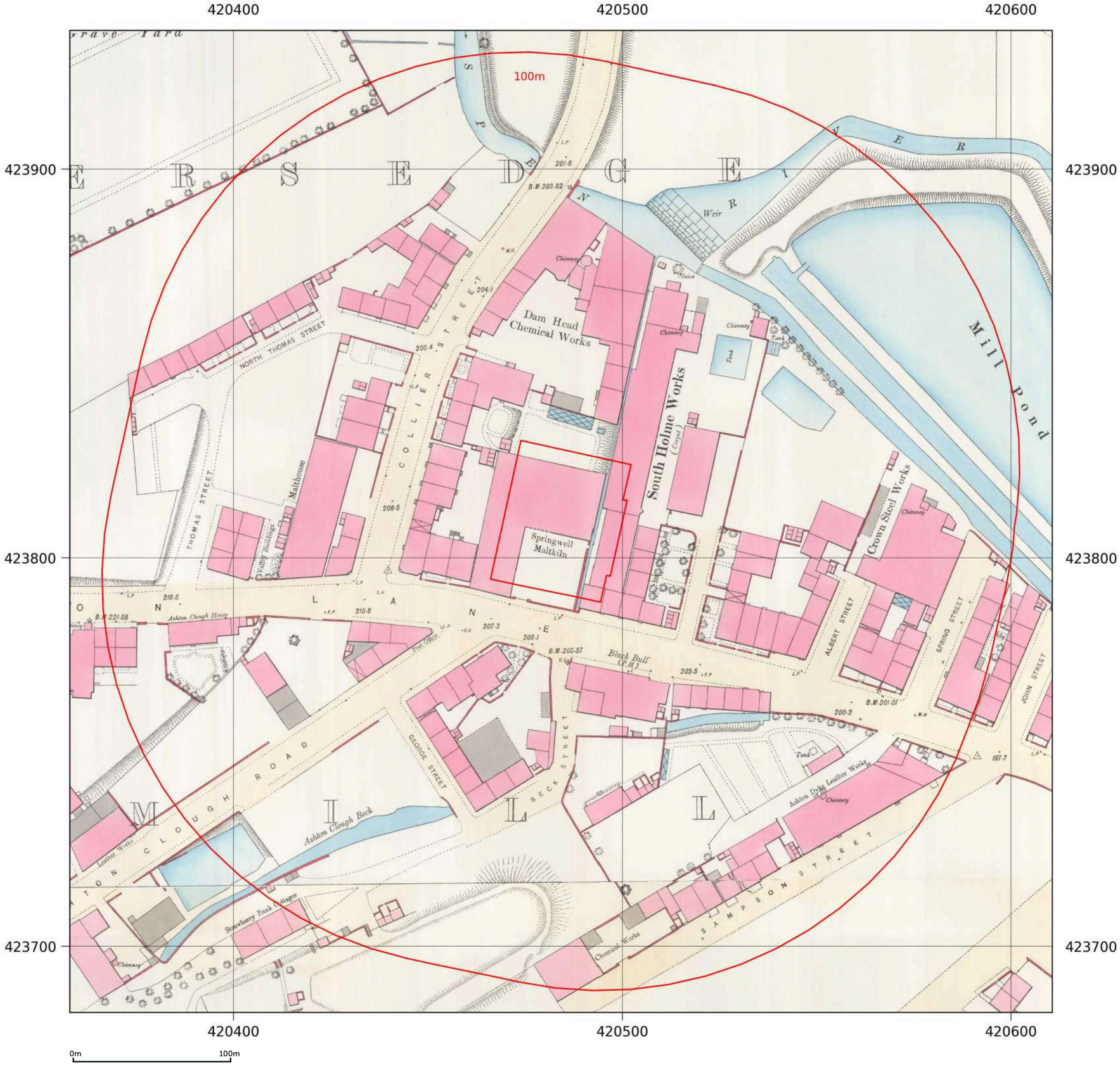

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Map legend available at:
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Map Insight

Site details:	52, HALIFAX ROAD, MILLBRIDGE, LIVERSEDGE, KIRKLEES, WF15 6JL
Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	500 Scale Town Plans
Map date:	1890
Scale:	1:500
Printed at:	1:1,000

N
W E
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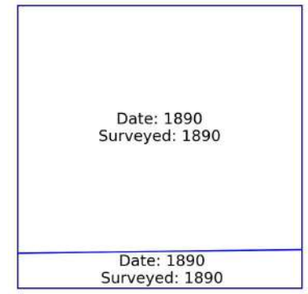

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1894
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1894
Surveyed: 1894
Revised: 1894

Date: 1894
Surveyed: 1894
Revised: 1894

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1907
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1907
Surveyed: 1907
Revised: 1907

Date: 1907
Surveyed: 1907
Revised: 1907

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1922
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1922
Surveyed: 1922
Revised: 1922

Date: 1922
Surveyed: 1922
Revised: 1922

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1933
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1933
Surveyed: 1933
Revised: 1933

Date: 1933
Surveyed: 1933
Revised: 1933

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1938
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1938
Surveyed: 1938
Revised: 1938

Date: 1938
Surveyed: 1938
Revised: 1938

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1956
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1956 Surveyed: 1956 Revised: 1956 Levelled: 1931	Date: 1956 Surveyed: 1956 Revised: 1956 Levelled: 1931
Date: 1956 Surveyed: 1956 Revised: 1956 Levelled: 1931	Date: 1956 Surveyed: 1956 Revised: 1956 Levelled: 1931

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1957
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1957	Date: 1957
Date: 1957	Date: 1957

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1958
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1958
Surveyed: 1956
Revised: 1956
Copyright: 1958
Levelled: 1931

Date: 1958
Surveyed: 1956
Revised: 1956
Edition: 1958
Levelled: 1931

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1970-1972
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1971
Surveyed: 1956
Revised: 1970
Copyright: 1971
Levelled: 1962

Date: 1970
Surveyed: 1956
Revised: 1970
Copyright: 1970
Levelled: 1962

Date: 1972
Surveyed: 1972
Revised: 1972
Copyright: 1972

Date: 1970
Surveyed: 1956
Revised: 1970
Copyright: 1970
Levelled: 1962

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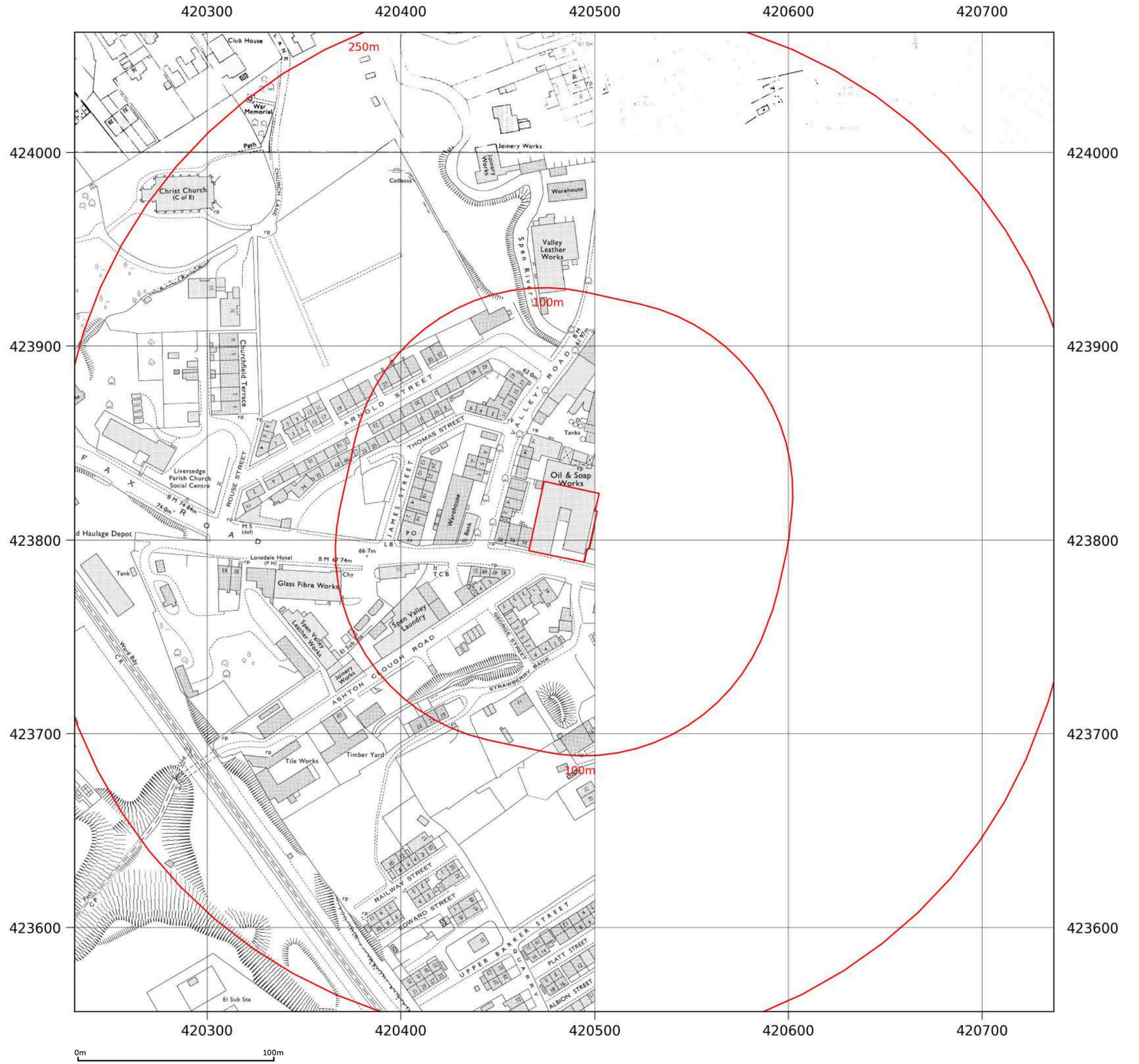

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1972-1977
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1977	Date: 1977
Date: 1972 Surveyed: 1956 Revised: 1971 Copyright: 1972 Levelled: 1968	

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1979
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

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420300 420400 420500 420600 420700

424000 423900 423800 423700 423600

250m
100m
50m

Christ Church (C of E)
Churchfield Terrace
Liversedge Parish Church Social Centre
Warehouse
Valley Leather Works
Spen River
Oil & Soap Works
Warehouse
Bank
Lonsdale Hotel (P H)
Glass Fibre Works
Spen Valley Laundry
Spen Valley Leather Works
Tile Works
Timber Yard
El Sub Sta
ARNOLD STREET
THOMAS STREET
ROUSE STREET
JAMES STREET
VALLEY ROAD
ASHTON COUGH ROAD
GEORGE STREET
STRAWBERRY BANK
UPPER BANKER STREET
QUARRY
ALBION STREET
CHURCH LANE

0m 100m

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1985-1990
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1985
Copyright: 1985
Levelled: 1962

Date: 1990
Surveyed: 1962
Revised: 1990
Copyright: 1990
Levelled: 1962

Date: 1985
Copyright: 1985
Levelled: 1962

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420300 420400 420500 420600 420700

424000 423900 423800 423700 423600

250m
100m

Club House
War Memorial
Path
Christ Church (C of E)
CHURCH LANE
Joinery Works
Warehouse
Valley Leather Works
El Sub Sta
INGS CRESCENT
61·5m
61·7m
Oil & Soap Works
Tank
Weir
Sluice
Sluices
Garage
BRADFORD
Churchfield Terrace
QUARRYFIELD CLOSE
THOMAS STREET
VALLEY ROAD
Liversedge Parish Church Social Centre
HOUSE STREET
Reservoir
Spen River
Tanks
Works
Crown Steel Works
Chy
Warehouse
Depot
Club
Works
Block Bull
CROWN STREET
SPRING STREET
HOLME STREET
Mattress Works
Spen Valley Leather Works
Joinery Works
ASHTON CROUGH ROAD
STRAWBERRY BANK
GEORGES STREET
Sampson Grange (home for the aged)
SAMPSON STREET
HALIFAX ROAD
Spen Valley Carpet Works
Tennis Court
Pavilion
Bowling Green
PCs
MILL BRIDGE
BARKER STREET
Engineering Works
BENNETT STREET
Club
Millbridge Park
Playground
WHARTON STREET
GLOBE COURT
Welding Works
HUDDERSFIELD ROAD
MARK STREET
ALBION STREET
QUARRY STREET
Path (Dismantled)
Dyke
Pond
El Sub Sta

0m 100m

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1986-1991
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1986
Surveyed: 1962
Revised: 1986
Copyright: 1986
Levelled: 1962

Date: 1990
Surveyed: 1966
Revised: 1990
Copyright: 1990
Levelled: 1966

Date: 1991
Copyright: 1991

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1989-1992
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1989 Surveyed: 1962 Revised: 1989 Copyright: 1989 Levelled: 1962	Date: 1992 Copyright: 1992
Date: 1990 Surveyed: 1962 Revised: 1990 Copyright: 1990 Levelled: 1962	Date: 1992 Copyright: 1992

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1990-1994
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1991	Date: 1994
Surveyed: 1990	Surveyed: 1994
Revised: 1990	Revised: 1994
Copyright: 1991	Copyright: 1994

Date: 1990
Surveyed: 1962
Revised: 1990
Copyright: 1990
Levelled: 1962

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Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1990-1994
Scale:	1:1,250
Printed at:	1:2,000

N
W E
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Date: 1992 Copyright: 1992	Date: 1994 Copyright: 1994
Date: 1990 Surveyed: 1962 Revised: 1990 Copyright: 1990 Levelled: 1962	

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420300 420400 420500 420600 420700

424000 423900 423800 423700 423600

250m

100m

0m 100m

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Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1994
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S



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420300 420400 420500 420600 420700

424000 423900 423800 423700 423600

250m
100m

Christ Church
Church Lane
Churchfield Close
Churchfield Terrace
Liversedge Parish Church Social Centre
Rouse Street
Halifax Road
Depot
The Lonsdale (PH)
Warehouse
Builder's Yard
Snowden Way
Spen River
Works
Arnold Street
Thomas Street
James Street
Valley Road
Tanks
Gregory Street
Ashton Clough Road
Strawberry Bank
Timber Yard
Upper Barker Street
Wilson Street
Railway (Disused)
Spen Valley Greenway
Path (Fp)
El Sub Sta
Nc
Sc
TCB
PO
MS (def)
LB
BM 67.74m
BM 74.89m
BM 61.97m
74.0m
66.7m
62.0m

0m 100m

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1992-1995
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1995	Date: 1995
Date: 1992 Copyright: 1992	

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Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	National Grid
Map date:	1994-1995
Scale:	1:1,250
Printed at:	1:2,000

N
W E
S

Date: 1995
Surveyed: 1995
Copyright: 1995

Date: 1995
Copyright: 1995

Date: 1994
Copyright: 1994

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Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250

N
W E
S

Date: 2003

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1854
Scale:	1:10,560
Printed at:	1:10,560

N
W E
S

Date: 1854
Surveyed: 1847
Edition: 1854

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1892
Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1892
Surveyed: 1892
Revised: 1892

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Map Insight

Site details:	52, HALIFAX ROAD, MILLBRIDGE, LIVERSEDGE, KIRKLEES, WF15 6JL
Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
Map date:	1905
Scale:	1:10,560
Printed at:	1:10,560

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Date: 1905
Surveyed: 1889
Revised: 1905

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Map name:	County Series
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Scale:	1:10,560
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Date: 1931
Surveyed: 1851
Revised: 1931

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Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

Map name:	County Series
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Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1931
Surveyed: 1851
Revised: 1931

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Client ref:	A7322/NM/01
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Date: 1931
Surveyed: 1851
Revised: 1931

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
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Production date:	8 May 2026

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Scale:	1:10,560
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Date: 1938
Surveyed: 1851
Revised: 1938
Levelled: 1931

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Scale:	1:10,560
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Date: 1948
Surveyed: 1851
Revised: 1948

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Map name:	Provisional
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Date: 1955
Date: 1955 Surveyed: 1951
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Copyright: 1955

Date: 1951
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Revised: 1951

Date: 1955
Surveyed: 1951
Revised: 1955

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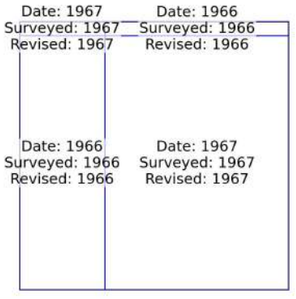

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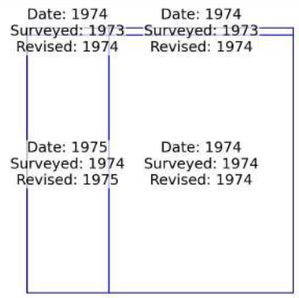

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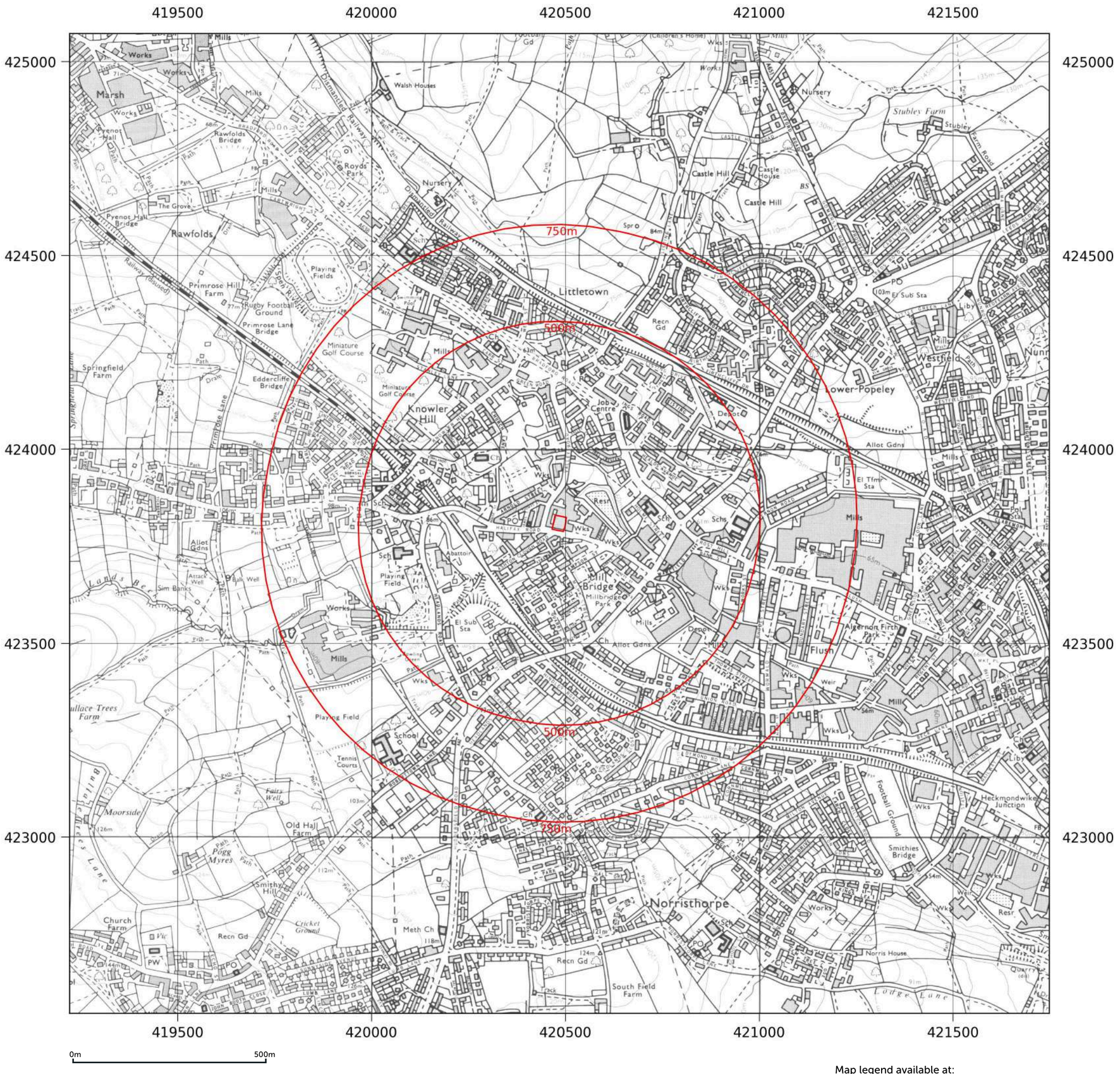

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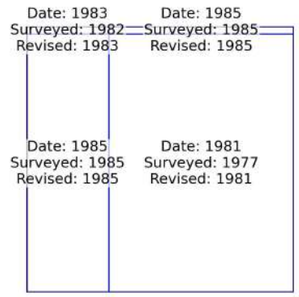

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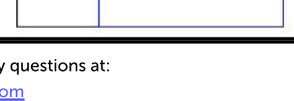

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Scale:	1:10,000
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Date: 2001 Date: 2001 Date: 2001 Date: 2001

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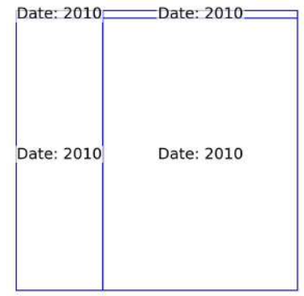

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Printed at:	1:10,000

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Date: 2015 Date: 2015 Date: 2015 Date: 2015

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Client ref:	A7322/NM/01
Report ref:	GS-PXJ-K6X-Q4L-SPL
Grid ref:	420484.42, 423809.22
Production date:	8 May 2026

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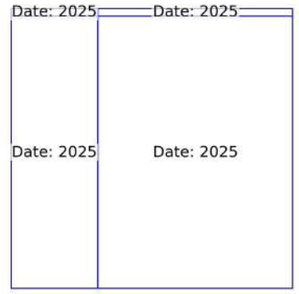

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APPENDIX 2

SITE PHOTOGRAPHS

Earth Environmental & Geotechnical Ltd

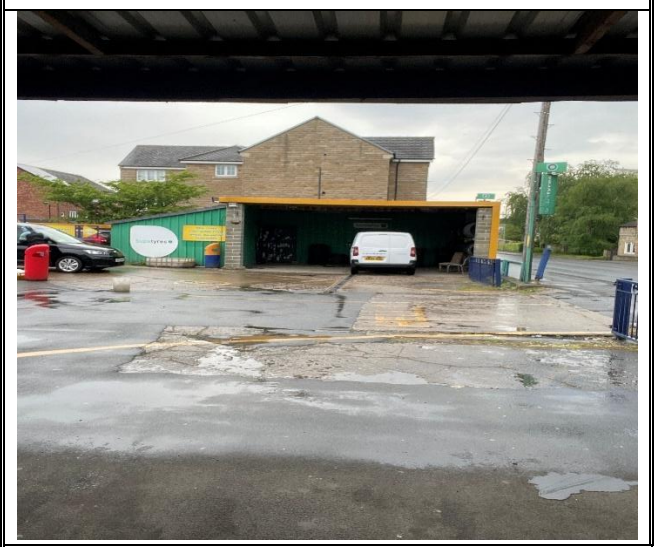
Tel: 0161 975 6088
Email: info@earthenvironmental.co.uk
Web: www.earthenvironmental.co.uk

SITE PHOTOGRAPHS

Job No.: A7322

Site: Halifax Road, Millbridge Liversedge

Plate 1 View facing southeast showing site entrance



Date: 8th May 2026

Plate 2 View facing southeast powerline at site entrance



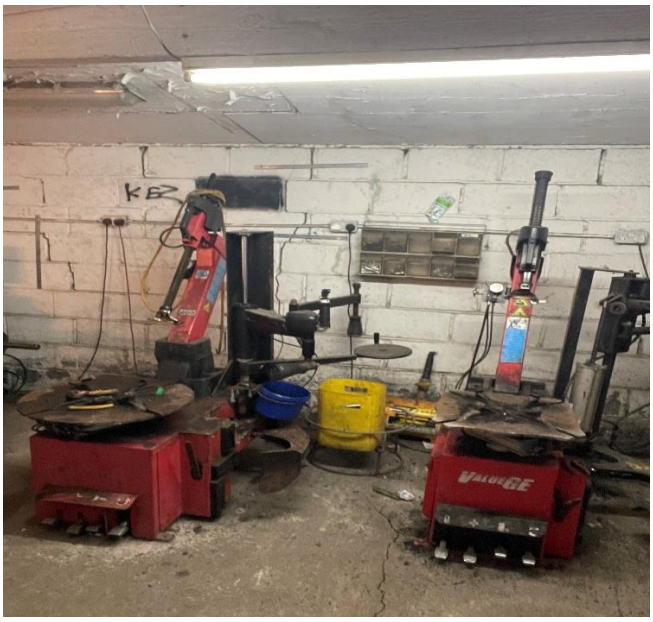
Date: 8th May 2026

Plate 3 View facing north showing electric substation



Date: 8th May 2026

Plate 4 View facing east, showing storage facility in the southeast of the site boundary



Date: 8th May 2026

Earth Environmental & Geotechnical Ltd

Tel: 0161 975 6088
Email: info@earthenvironmental.co.uk
Web: www.earthenvironmental.co.uk

SITE PHOTOGRAPHS

EARTH ENVIRONMENTAL & GEOTECHNICAL

Job No.: A7322

Site: Halifax Road, Millbridge, Liversedge

Plate 5 View facing southwest, drainage and concrete



Plate 6 Facing northeast, fly tipping materials behind the site cabin



Date: 8th May 2026

Date: 8th May 2026

Plate 7 – Fly tipping materials, containing trees and bricks



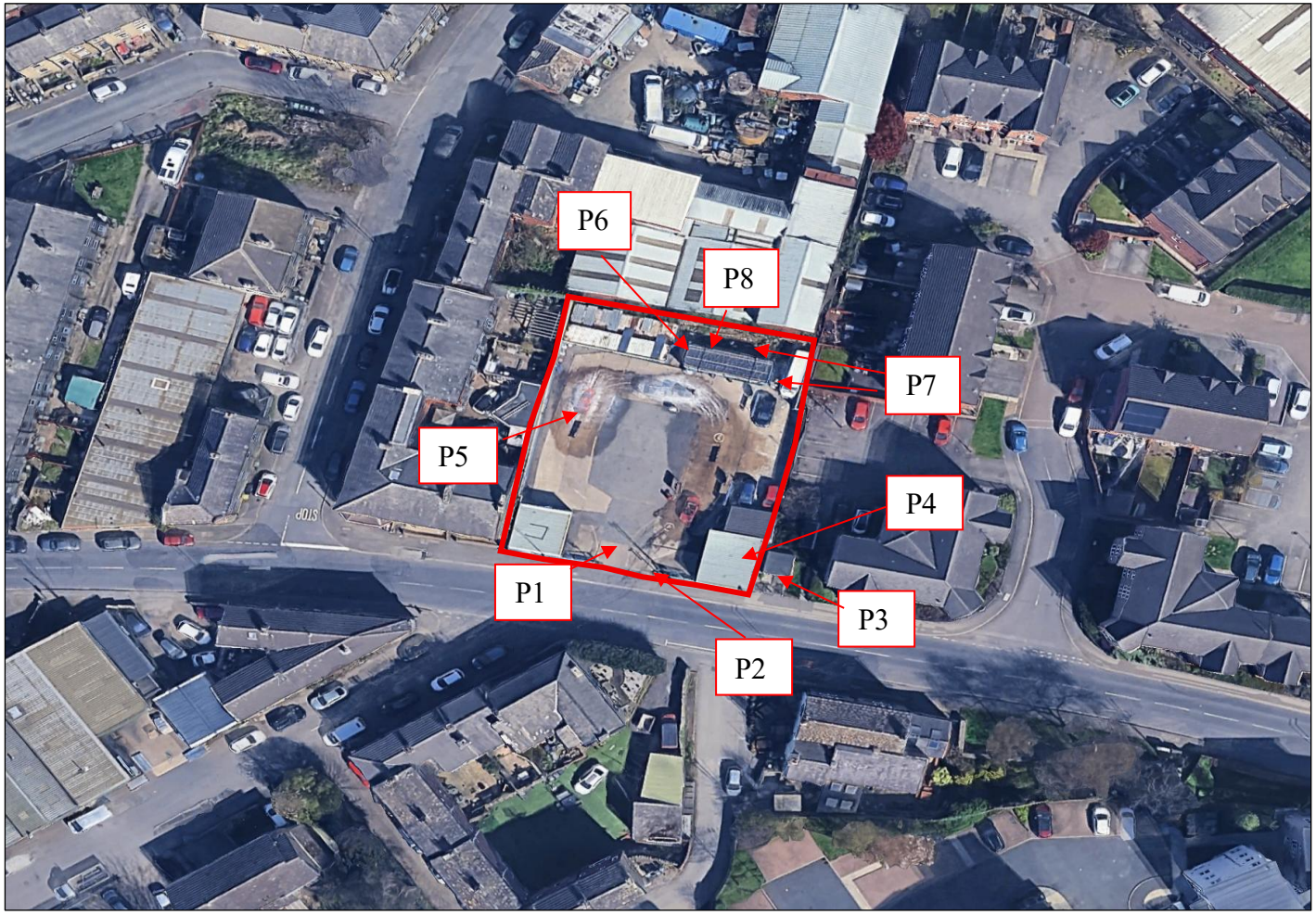
Plate 8 – Site Cabin, facing south, located in the north of the site.



Date: 8th May 2026

Date: 8th May 2026

Figure 10: Site Walkover Photograph Locations



APPENDIX 3

SITE WALKOVER NOTES

WALK OVER SURVEY REPORT

Site: Halifax Road, Liversedge **Date:** 08/05/2026

Job No: A7322 **Undertaken By:** HP

Purpose of Site Walkover:
1) Provide further information for the Desk Study Report.
2) Identify potential contamination sources, pathways, and receptors;
3) Identify geotechnical features and potential geohazards;
4) Determine locations for exploratory boreholes.

Desk Study features checked during site visit.	Feature and Information required	Present	Description / Comments
Site Setting	Description required for: Town/Country/Suburb Setting Industrial/Residential/Retail Usage Current Site use (if undertaking security and access to the site)		The site is covered by Made Ground, comprising concrete surfacing. The site is predominantly used for commercial car washing. Several areas contain sorted materials, including tyres and consumables associated with the car washing operations. Drainage systems are present in the western part of the site. Mature bushes and trees are not present within the site boundary but are located immediately to the northwest, beyond the wooden fence and in close proximity to the residential area. Site cabins are located in the northern part of the site. Fly-tipped materials, largely comprising broken brick, rebar, metal sheeting, burnt materials and piping, are located to the north of the cabins. Broken-down trees and bushes are present to the northeast of the site boundary.
Evidence of Past Activities	Are there: Any relevant street names in the area? Features or relics which indicate history?		The site remained in industrial use until the mid-1980's before all on-site buildings were demolished, leaving the site largely vacant. Site walkover suggests the site has been used as a car valeting business until the present day since ~2010. Industrial area is located predominantly to the immediate north of the site.
Geographic Setting	Description required for: Low-lying flood plain/dry valley/rolling hills, etc.		The site (0.11 hectares) is occupied land on the A649 (Halifax Road) near the junction with Valley Road and approximately 200m from Liversedge train station.
Ground Conditions	Is there any evidence of: Mining, Mine entries Subsidence Landslip/slope erosion Former investigation works	 No No Yes	No evidence of negative ground conditions nor a previous ground investigation within the site.

Desk Study features checked during site visit.	Feature and Information required	Present	Description / Comments
Topography	Description required for: Are there apparent differences between the site and the surrounding area? (If yes, describe the presence of retaining walls and slopes.) Is there evidence of Made Ground / Fill on site?	Yes Yes	Topography is generally flat but falls slightly off-site to the south-east. Made Ground (concrete) hardstanding surfacing is present from Halifax Road across all of the site.
Site Boundaries and Neighbours	Description required for: Type of boundary demarcation (if any) on each side of the site, usage of adjacent land and name of industrial/commercial occupiers. Note any adjacent features such as water course and other potentially environmentally sensitive uses (residential, school, infirmary, SSSI, etc.)		To the immediate north lies industrial works, to the immediate eats and west are residential areas with associated car parking and to the south if Halifax Road, running parallel to the site boundary.
Vegetation	Are there any vegetation/trees on or close to the site (if yes, describe locations, type, maturity, etc) Is there any evidence of poor health/distress?	Yes No	No vegetation is present within the site boundary, with the exception of mature trees and bushes associated with the fly-tipped materials located toward the northeast of the site boundary. To the immediate west of the site, adjacent to the residential properties along Valley Road, there are mature trees which may overhang into the site along the fence line.
Ground Surface	Are there areas of hardstanding, and estimate the split between hard and soft cover? (If yes, describe locations, types, and conditions.) Is the any evidence of any spillages or staining?	Yes No	Concrete hardstanding located across the majority of the site boundary.

Desk Study features checked during site visit.	Feature and Information required	Present	Description / Comments
Site Drainage	Are there any drain covers/soakaways (if yes, describe locations) Are there any outfalls/water courses on site (note the condition of water courses in open water courses. discolouration, odour, eutrophication, oily sheen, gas bubbling in water, clear or cloudy) Where a watercourse runs alongside or crosses a site, are there any differences in visible water quality upstream and downstream of the site?	Yes No No	A drainage channel is understood to be located along the western site boundary, adjacent to the washing facilities. No watercourses were identified within the site boundary.
Electrical Equipment	Are there any electricity substations on or adjacent to the site? Are there any electrical transformers, capacitors, pylons, etc, on site?	No	Electrical equipment as part of the services located within storage.
Buildings	Is there any evidence of asbestos construction materials, e.g. roofing, insulation materials? Do any buildings have basements? Do any buildings have a boiler room (if yes, describe fuel type and storage arrangements)?	No No No	A site cabin is located within the northern part of the site. This temporary facility contains an office area together with basic welfare provisions, including food and drink preparation facilities, a washing machine, and a fridge. Storage units are also located to the southeast and southwest of the site. These contain materials and equipment associated with the site operations, including, but not limited to, tyres, air pressure machinery, pumps, and pallets.

Desk Study features checked during site visit.	Feature and Information required	Present	Description / Comments
Landfilling	Is there any evidence of gas protection measures (gas membrane, gravel-filled trenches, venting pipes, etc)?	No	Nothing noted within the site boundary or surrounding area during the walkover.
Process Air Emissions	Point Source: Are there any stacks/vents / cooling towers/abatement equipment? Fugitive Source: Is there any stockpiled material / windblown dust/vapour process?	No No	N/A
Storage of fuels & Chemicals	Are there any drums/containers (if yes, describe quantity, full /empty, stored on hard standing / soft landscaping, bunding)? Are there any above-ground fuel tanks (if yes, describe locations, volumes, how many, bunding, used / disused, condition)? Is there any evidence of underground fuel tanks (fuel pumps, covers, vent pipes, how many and how large, fill point, used / disused, and condition)?	No No No	Potential contamination sources may be present within the storage areas, primarily associated with fuels linked to the car valeting services. Access to these areas was limited; however, the storage of materials and equipment was observed. No above-ground fuel storage tanks were identified on site.
Accidents	In the event of a large spillage, would runoff affect any vulnerable watercourse/culverts? Are emergency procedures/equipment in place?		N/A

Desk Study features checked during site visit.	Feature and Information required	Present	Description / Comments
Waste	Are there any waste skips present on site? Are waste storage facilities adequate? Is there any litter/fly-tipped material?	No No No	Fly-tipped materials were noted to the far north of the site boundary, including metals (rebar), brick, burnt-out materials, mature trees, and redundant equipment. These materials may present access, safety, and environmental constraints and should be considered during any clearance or enabling works.
Atmospheric	Are there any fumes, odours originating from the site or affecting the site from neighbouring sites?	No	N/A
Access / Further Investigations	If a Phase 2 Investigation is likely to be required, describe any access problems, including headroom where relevant, services, overhead cables, restricted access areas, confined spaces, trafficked areas, etc, that are likely to affect the investigation scope/techniques. Identify possible site office and storage locations. Identify possible water supply.		Access is from the south via Halifax Road. Overhead power lines are present along the southern boundary, so the available height for large machinery will need to be considered when planning site access and manoeuvring. The site office could be located anywhere within the site. A water supply is available.
Site Environs	Are there any local features that could have a harmful influence, e.g. landfill, industrial processes, or railway land? Are there any sensitive water features/courses near the site?	No No	Commercial process in place, but unlikely harmful influence. No sensitive water features observed on or adjacent to the site.
Local Knowledge / Anecdotal Evidence			N/A

APPENDIX 4

REPORT LIMITATIONS

LIMITATIONS

This contract was completed by Earth Environmental & Geotechnical Ltd based on a defined programme and scope of works, and terms and conditions agreed with the client. This report was compiled with all reasonable skill and care, bearing in mind the project objectives, the agreed scope of works, the prevailing site conditions, the budget, and staff resources allocated to the project.

Other than that, expressly contained in the above paragraph, Earth Environmental & Geotechnical Ltd provides no other representation or warranty, whether express or implied, in relation to the services. Unless otherwise agreed, this report has been prepared exclusively for the use and reliance of the client in accordance with generally accepted consulting practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon, or transferred to, by any other party without the written agreement of a Director of Earth Environmental & Geotechnical Ltd.

If a third party relies on this report, it does so wholly at its own and sole risk and Earth Environmental & Geotechnical Ltd disclaims any liability to such parties.

It is Earth Environmental & Geotechnical Ltd.'s understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was an important factor in determining the scope and level of the services. Should the purpose for which the report is used, or the proposed use of the site change, this report will no longer be valid, and any further use of, or reliance upon the report in those circumstances by the client without Earth Environmental & Geotechnical Ltd review and advice shall be at the client's sole and own risk.

The report was written in 2026 and should be read in light of any subsequent changes in legislation, statutory requirements, and industry best practices. Ground conditions can also change over time, and further investigations or assessments should be made if there is any significant delay in acting on the findings of this report. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of Earth Environmental & Geotechnical Ltd. In the absence of such written advice from Earth Environmental & Geotechnical Ltd, reliance on the report in the future shall be at the client's own and sole risk. Should Earth Environmental & Geotechnical Ltd be requested to review the report in the future, Earth Environmental & Geotechnical Ltd shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between Earth Environmental & Geotechnical Ltd and the client.

The observations and conclusions described in this report are based solely upon the services that were provided pursuant to the agreement between the client and Earth Environmental & Geotechnical Ltd. Earth Environmental & Geotechnical Ltd has not performed any observations, investigations, studies or testing not specifically set out or mentioned within this report.

Earth Environmental & Geotechnical Ltd is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, Earth Environmental & Geotechnical Ltd did not seek to evaluate the presence on or off the site of electromagnetic fields, lead paint, radon gas or other radioactive materials.

The services are based upon Earth Environmental & Geotechnical Ltd.'s observations of existing physical conditions at the site, gained from a walkover survey of the site, together with Earth Environmental & Geotechnical Ltd.'s interpretation of information, including documentation, obtained from third parties and from the client on the history and usage of the site. The findings and recommendations contained in this report are based in part upon information provided by third parties, and whilst Earth Environmental & Geotechnical Ltd have no reason to doubt the accuracy and that it has been provided in full from those it was requested from, the items relied on have not been verified.

No responsibility can be accepted for errors within third-party items presented in this report. Further Earth Environmental & Geotechnical Ltd was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the services. Earth Environmental & Geotechnical Ltd is not liable for any inaccurate information, misrepresentation of data or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to Earth Environmental & Geotechnical Ltd and including the doing of any independent investigation of the information provided to Earth Environmental & Geotechnical Ltd save as otherwise provided in the terms of the contract between the client and Earth Environmental & Geotechnical Ltd.

Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions can also be variable, and as investigation excavations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this report. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and Earth Environmental & Geotechnical Ltd] based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

The groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The normal speed of investigation usually does not permit the recording of an equilibrium water level for any one water strike. Moreover, groundwater levels are subject to seasonal variation or changes in local drainage conditions, and higher groundwater levels may occur at other times of the year than were recorded during this investigation.

Any site drawing(s) provided in this report is (are not meant to be an accurate base plan but is (are used to present the general relative locations of features on and surrounding the site.