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Preliminary Risk Assessment: Desk Study

Mr P Coletta

Garages at the end of Olney Street

Slaithwaite

Kirklees

HD7 5EG

24 May 2025

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Executive Summary

Brief	Arbtech Consulting Ltd (Arbtech) was instructed by Mr P Coletta to produce a Preliminary Geo-Environmental Risk Assessment to inform a planning proposal with Kirklees Council for 2No.residential properties with rear gardens, driveways and associated infrastructure at the site known as Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG
Site Use & Surrounding Area	The application site is located in Slaithwaite Huddersfield on Olney Lane, roughly oriented northeast to southwest of Meal Hill Lane in the west. Slaithwaite Bowling and Cricket Club is c. 200m northwest, with Slaithwaite TransPennine express railway line-oriented northeast to southwest c. 80m south. The site is within an area featuring mixed residential, commercial, industrial and open space. The site is roughly 'L' shaped oriented northwest to southeast and has been used for domestic garages and storage with some allotment use beyond. The ground across the site comprises exposed soils at surface level with some areas of vegetation and hardstanding, particularly to the south associated with the former and current garage units.
Environmental Setting	The site is predominantly undeveloped with a history of limited agricultural use and former domestic garages. Surrounding land use includes residential areas on infilled quarry land, as well as some industrial and commercial sites. The geology consists of East Carlton Grit sandstone, a Secondary A Aquifer with moderate to high permeability. No superficial deposits are recorded beneath the site. The nearest active potable groundwater abstraction lies about 1.7 km east, with others within 2 km. There are no Source Protection Zones within 500 m. An inland river is located 66 m to the north.
Contamination Potential Sources	The site presents a low to moderate risk of land contamination, mainly linked to historical on-site domestic garages and nearby industrial and quarry activities. Key potential contaminants include: ⇒ Former domestic garages (on-site): Potential sources of hydrocarbons, heavy metals, and solvents from historical garage use and associated hardstanding, which may pose localized contamination risks to soils and vapours. ⇒ Historical quarry and pits (off-site): The infilled quarry area now developed as residential land may contribute residual contamination through groundwater and soil gas migration. ⇒ Current industrial and commercial sites (off-site): Although located at a distance, industrial activities nearby could contribute vapour and surface water runoff contamination, including volatile organic compounds (VOCs). ⇒ The underlying East Carlton Grit sandstone bedrock forms a Secondary A Aquifer with moderate to high permeability, potentially facilitating contaminant migration via groundwater. No superficial deposits are recorded on-site, which limits natural attenuation.

	⇒ Surrounding residential receptors and groundwater abstraction points within a few kilometers present viable receptors, creating possible pollutant linkages requiring further investigation. Future groundworks may disturb underlying soils and made ground, potentially creating pathways for contaminant migration, reinforcing the need for intrusive investigation and appropriate mitigation.
Development Considerations	Future development should incorporate safe working practices and appropriate PPE to minimize exposure risks during construction. The site's permeable geology and aquifer status necessitate careful design to manage groundwater and gas migration risks. Protective measures such as gas barriers or ventilated foundations may be required depending on investigation outcomes. Early engagement with environmental regulators is advisable to align remediation and monitoring strategies with regulatory expectations.
Uncertainty and Data Gaps	This assessment is based on desk study information only. No Site-specific ground investigation data has formed any of this desk study.
Recommendations	An intrusive ground investigation is recommended to determine the presence and nature of any contamination, particularly relating to made ground, historical garages, and nearby quarry infill. The investigation should include: ⇒ Soil sampling to characterize made ground and bedrock soils. ⇒ Boreholes to assess subsurface conditions and groundwater. ⇒ Chemical analysis for hydrocarbons, heavy metals, VOCs, solvents, and other potential contaminants. ⇒ Groundwater and leachate sampling to evaluate contaminant migration risks. ⇒ Ground gas monitoring to assess potential risks from methane, carbon dioxide, or VOCs. Given the underlying Secondary A aquifer and proximity to potable water abstractions, careful groundwater monitoring and management will be essential. Findings will inform any necessary mitigation measures, including potential gas protection or remediation strategies.

This is intended as a summary only. Further detail and the limitations of the assessment is provided within the main body of the Report.

Contents

Introduction

Background

Arbtech Consulting Ltd (Arbtech) was instructed by Mr P Coletta to produce a Preliminary Geo-Environmental Risk Assessment to inform a planning proposal with Kirklees Council for 2No.residential properties with rear gardens, driveways and associated infrastructure at the site known as Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

A Phase I report is required to assess the historical use and present condition of the site, determine the extent and nature of any contamination risk, and identify potential risks to future users of the land, neighbouring properties, workers, and other offsite receptors. This assessment will ensure that the development can be carried out safely without unacceptable risks to workers, neighbours, controlled waters, property, or ecological systems with suitable recommendations.

Objectives

The objectives of the Arbtech Consulting preliminary geoenvironmental site assessment was to undertake a Phase I Desk Study for the site. Guidance set out in LCRM [1], GPLC1-3[2] and the National Planning Policy Framework (NPPF)[3] states that a Preliminary Risk Assessment with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk. If contamination is a potential, then site investigation works are carried out to establish a viable pollutant linkage to assess the potential risks to human health and controlled water receptors. Based on the findings of this report, an appropriate site investigation can be derived, if required, once planning approval has been granted.

1 EA (2020). "Land contamination risk management (LCRM).

2 EA (2016). "Guiding Principles for Land Contamination." GPLC1-3.

3 DCL (2024). "National Planning Policy Framework." Department of Communities and Local Government.

Scope of Works

- Review of the environmental setting of the Site, including the current use / status of the Site and surrounding area, and review of the geology, hydrogeology and hydrology;
- Review of the historical activities of the Site and surrounding area;
- Review of regulatory information relating to the Site;
- Review of the online planning records for the Site;
- Consult and review information from the Local Authority in relation to Part 2A of the 1990 Environmental Protection Act; and
- Develop an outline Conceptual Site Model and undertake a Preliminary Risk Assessment with respect to potential contamination focussed on the proposed end use of the Site.
  In completing this Assessment, Arbtech Consulting Ltd has utilised the following data sources and third-party information:
- Current and Historical Ordnance Survey (OS) maps;
- British Geological Survey (BGS) data;
- Environment Agency (EA) online data; and
- Review of third-party environmental reports.

Site Context

Site Information

Fig.1 2021 Aerial Photograph
Contains Data from, © 2025 Groundsure Insights (Appendix 3)

Fig 2 OS Mastermap site plan
Contains Data from, © 2025 Groundsure Insights

Site co-ordinates:	(NGR) 408079 414350	**Site Area:**	0.04ha
Site Location	The application site is located in Slaithwaite Huddersfield on Olney Lane, roughly oriented northeast to southwest of Meal Hill Lane in the west. Slaithwaite Bowling and Cricket Club is c. 200m northwest, with Slaithwaite TransPennine express railway line-oriented northeast to southwest c. 80m south. The site is within an area featuring mixed residential, commercial, industrial and open space.		
Current Site use	The site is roughly 'L' shaped oriented northwest to southeast and has been used for domestic garages and storage with some allotment use beyond. The ground across the site comprises exposed soils at surface level with some areas of vegetation and hardstanding, particularly to the south associated with the former and current garage units. Representative photos are presented as Appendix 2.		
Surrounding Area features	North	Open land mostly used for allotments	
	East	Mixed residential, industrial and commercial	
	South	Mixed residential, railway and industrial land use	
	West	Residential with light commercial use	

Data Review

Historical Features	
Strategy	The historical development of the Site and surrounding area has been assessed through a review of available historical OS maps and Google Earth historical satellite imagery. A summary of the key historical Site uses and developments in the surrounding area is presented below. Copies of pertinent historical maps are included as Appendix 4.
Historical Features On-Site	Historically, based on the earliest available mapping dated 1854 the site features as a larger area of agricultural land with boundary between two fields from mid-southwest to mid-northeast. A quarry is noted to western boundary. The site remains undeveloped until mapping dated 1968 identifies c.5No. small buildings (assumed garages) in a row to the southern half of the site, oriented the same as the site southern boundary (southwest to northwest. Mapping dated 1992 identifies the most western unit is no longer shown as present, however by mapping dated 2003 a larger structure is noted in its place. Current configuration identifies a small garage/storage unit at the southeast and southwest of the site. No development has been made to the north of the site.
Potentially Contaminative Historical Features Off-Site	Potential sources of contamination identified in the surrounding area (within 100m, excluding repeat entries beyond the nearest) include: ⇒ Unspecified quarry 4m southwest 1890-1904 ⇒ Unspecified ground workings 4m southwest 1948 ⇒ Unspecified pits 6m west 1955 ⇒ Railway station 14m south 1890 ⇒ Refuse heap 33m west 1930 ⇒ 63m southeast 1955
Implications for historic Land Contamination Risk	Several sources of potential historic contamination have been identified on the subject site itself and within close proximity. Whilst many of the surrounding sources are discounted largely because of length of time since activities occurred and subsequent development to residential land use, the focus is placed upon potential risk to construction workers during groundworks and future residents. The site itself has historically been used for domestic garage/storage with offsite history featuring surface mining and railway industries. 111No. Historical industrial land use records are recorded within 500m. Generally, the wider area is noted for its industrial activity with residential development increasing in time. This will be further assessed in the risk assessment.

Environmental Setting

Feature		Information	
Published Geology	**Artificial**	11No. Artificial and Made Ground records within 500m - the nearest is 2m southwest as infilled ground artificial deposit associated with a historic quarry.	
	Superficial	No Superficial geology is recorded on site. The nearest is 106m northeast as Alluvial Fan Deposits - Sand and Gravel. Noted as intergranular with very high to high permeability. 1No. landslip recorded 469m north.	
	Bedrock	Bedrock geology is recorded as East Carlton Grit - Sandstone. Noted as fractured with high to moderate permeability. (15m east Millstone Grit Group - Mudstone, Siltstone and Sandstone). 1No. Bedrock fault (inferred) recorded 185m south. No other or any other linear features present.	
	BGS Logs	2No. BGS logs within 250m: The nearest is 219m northeast however, this is in a different geological sequence to record a bore for water in 1953.	
Hydrogeology	**Aquifer Designation**	**Superficial**	None recorded
		Bedrock	Secondary A
	Source Protection Zone (SPZ)	No Source Protection Zones within 500m. The site is in an area of high vulnerability for the Superficial Aquifer. Bedrock shows well connected fractures.	
	Groundwater Abstractions	3No. recorded groundwater abstractions within 1km. The nearest is active 720m southwest for General Use - Secondary category 10No. potable abstractions within 2km – the nearest is historical at 809m east. The nearest active is 1691m east.	
Hydrology	**Nearest Surface Water**	5No. surface water records and 9No. Water Network (OS Master Map) within 250m - the nearest is 66m north for inland river not influenced by normal tidal action. 1No entry on site for WFD Surface water body catchments for the Colne from Wessenden Brook to R Holme.	

Environmental Setting

Feature		Information
	Water Quality Data	Colne from Wessenden Brook to R Holme 79m east has an overall moderate rating. On site Groundwater body Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.is recorded as overall poor rating.
	Flooding	No entries recorded within 50m for risk of flooding from rivers or sea, no historical flood events, no flood defences or areas benefiting from flood defences, and no flood storage areas. No flood zones within 50m. Surface water highest flooding risk on site and in 50m – negligible. Highest groundwater flooding risk on site and within 50m – negligible.
	Surface Water Abstractions	12No. surface water abstractions within 1km - the nearest is historical 440m south. The nearest active is 550m west as supply to a canal for throughflow.
	Discharge Consents	5No. Licensed discharge entries within 500m - the nearest is 239m north (revoked). The nearest active is 469m southeast for sewage discharges. 2No. Licensed pollutant release within 500m -the nearest is 362m south (current permit) for timber manufacture.
	Pollution Incidents	9.No pollution incidents recorded within 500m - the nearest is 310m south - Water impact: Cat. 3 (minor impact).
Minerals and Mining	**Coal Report**	The site and surrounding areas are not within a JPB mining area. The site is within an area which could be affected by past, current or future coal mining.
	Coal Mining Development Risk	No development high risk is associated with the site from coal mining. Mining remediation authority map viewer identifies an absence of historic coal mining activities on or near the site.

Environmental Setting

Feature		Information
	Surface Extractions	25No. entries within 250m for Surface Ground Workings – the nearest is 4m southwest unspecified quarry 1904. 4No. Brit pits within 250m - the nearest is 33m west for Sandstone.
	Mining Instability / Non-Coal Mining Area	2No. entries for non-coal mining – the nearest is on site for vein mineral. Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
Ground Stability	**Collapsible Ground**	Very low
	Compressible Ground	Negligible
	Ground Dissolution	Negligible
	Landslide	Low
	Running Sand	Negligible
	Shrinking/Swelling Clay	Very low
Landfill Site	**Registered**	2No. historical landfill records within 500m. The nearest is – 339m east for a refuse tip (1967) 1No. historic waste site 252m east - waste transfer & skip hire. 7No. Licensed waste sites within 500m - the nearest is 140m east (skip hire) 14No. Waste exemption sites within 500m - the nearest is 144m east for storage of waste in a secure place.
	Potential: infilled land	11No. Artificial and Made Ground records within 500m - the nearest is 2m southwest as infilled ground artificial deposit associated with a historic quarry.
Radon	Less than 1% no protective measures required.	
Designated Sites	Within 1km:	

Environmental Setting

Feature	Information
	SSSI Impact Zones and Units and Nitrate vulnerable zone. Green belt 201m northwest 1No. Designated ancient woodland Langley Wood 940m northwest. 6No. listed buildings the nearest is 154m southwest 13-19 Hill Top Road 1No. conservation area 116m southeast Agricultural land classification on site - Urban Environmental Stewardship Schemes 200m northwest 1No. Priority Habitat Inventory 246m southwest deciduous woodland No other environmental designation records.
Contemporary Trade Directory	17No. Entries for Recent industrial land uses within 250m: ⇒ 128m east Container and Storage ⇒ 138m east Unspecified Works or Factories ⇒ 143m east Colours, Chemicals and Water Softeners and Supplies ⇒ 146m & 171m east Construction and Tool Hire ⇒ 174m east General-Purpose Machinery ⇒ 193m south Vehicle Cleaning Services ⇒ 209m east: ⇒ Unspecified Works or Factories ⇒ General Construction Supplies ⇒ Food and Beverage Industry Machinery ⇒ Vehicle Repair, Testing and Servicing ⇒ Electrical Features ⇒ 219m south Electrical Features ⇒ 227m southeast Fire Brigade Stations ⇒ 231m southeast Distribution and Haulage ⇒ 234m northeast Industrial Coatings and Finishings ⇒ 242m southwest Railway Stations, Junctions and Halts
Fuel Station Entries	No fuel station entries within 500m.
Unexploded Bomb Risk (UXO)	Zetica Risk maps presented in Appendix 5 identifies a low risk of UXO.
Environmental Search (other)	9No. Licensed industrial activities (Part A(1)) - the nearest is 138m east for organic chemicals; oxygen containing compounds e.g. alcohols

Environmental Database Review	
Strategy	The Groundsure Report provides a database of environmental information held by various statutory bodies including the EA, Local Authority (LA), Health & Safety Executive (HSE) and HPA amongst others. A full copy of the Groundsure Report is provided in Appendix 3, and the most relevant information is summarised below.
Features on Site	The site has a potential for contamination pertaining to historic garages. Although units are noted to have hardstanding surfacing with areas of hardstanding where demolished units were, it is reasonable to consider a limited risk of vertical migration of domestic garage activities. An IBC container is on site though raised and well maintained with non-chemical liquids within.
Potentially Contaminative Features Off-Site (250m)	Offsite potential to onsite migration potential from: Historical: ⇒ Unspecified quarry 4m southwest 1890-1904 ⇒ Unspecified ground workings 4m southwest 1948 ⇒ Unspecified pits 6m west 1955 ⇒ Railway station 14m south 1890 ⇒ Refuse heap 33m west 1930 ⇒ 63m southeast 1955 ⇒ Current: ⇒ 128m east Container and Storage ⇒ 138m east Unspecified Works or Factories ⇒ 143m east Colours, Chemicals and Water Softeners and Supplies ⇒ 146m & 171m east Construction and Tool Hire ⇒ 174m east General-Purpose Machinery ⇒ 193m south Vehicle Cleaning Services ⇒ 209m east: ⇒ Unspecified Works or Factories ⇒ General Construction Supplies ⇒ Food and Beverage Industry Machinery ⇒ Vehicle Repair, Testing and Servicing ⇒ Electrical Features ⇒ 219m south Electrical Features ⇒ 227m southeast Fire Brigade Stations ⇒ 231m southeast Distribution and Haulage ⇒ 234m northeast Industrial Coatings and Finishings ⇒ 242m southwest Railway Stations, Junctions and Halts ⇒ Other: ⇒ 9No. Licensed industrial activities (Part A(1)) - the nearest is 138m east for organic chemicals; oxygen containing compounds e.g. alcohols

	⇒ 25No. entries within 250m for Surface Ground Workings – the nearest is 4m southwest unspecified quarry 1904. ⇒ 11No. Artificial and Made Ground records within 500m - the nearest is 2m southwest as infilled ground artificial deposit associated with a historic quarry.
Implications for Land Contamination Risk	Potential sources of contamination have been identified within 100m. These are considered further in the conceptual site model below.

Planning Review	
Planning Portal Records	The site is presented to inform a planning proposal with Kirklees Council for 2No.residential properties with rear gardens, driveways and associated infrastructure at the site known as Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG, indicative development plans are presented as Appendix 6.
Part 2A of the Environmental Protection Act (EPA) 1990	No recorded sites determined as Contaminated Land within 500m.
Local Authority Records	Arbtech Consulting Ltd. have not contacted Kirklees Council however, consultations can be made at Contaminated land | Kirklees Council

Conceptual Site Model

Overview

A conceptual site model (CSM) is a representation of the characteristics of the site. It shows the possible relationships between contaminants, pathways and receptors. The CSM is used to identify potential contaminants, receptors (e.g., humans, groundwater), and pathways (e.g., inhalation, ingestion).

Overall Site Sensitivity

The site has remained largely undeveloped since the earliest mapping in 1854, with historical use limited to agricultural purposes, domestic garages, and minor allotment activity. No made ground is recorded on-site, and nearby records relate to small-scale infill, notably a historic quarry 2m southwest. The absence of industrial or contaminative land use suggests low potential for significant on-site sources of contamination.

Geologically, the site is underlain by East Carlton Grit (sandstone), classified as a Secondary A Aquifer with fractured porosity and moderate to high permeability. No superficial deposits are recorded directly beneath the site, reducing the likelihood of shallow contaminant migration. There are no Source Protection Zones within 500m. The nearest active groundwater abstraction is 720m southwest, with 10 potable abstractions located within 2 km — the nearest historical abstraction lies 809m east, and the nearest active potable abstraction is 1,691m east. The closest surface water feature is an inland river 66m to the north.

While the underlying aquifer is moderately permeable and a watercourse is nearby, the limited contaminant sources, distance to sensitive receptors, and absence of designated protection zones support a Low to Moderate environmental sensitivity rating for the site.

Identified potential contamination sources within 100m of the Site are presented in the following table:

Contamination Sources				
Ref.	**Source**	**Location**	**Dates Present**	**Potential Associated Contaminants of Concern**
Source 1	On-Site Potential	Former domestic storage garages with hardstanding (southern half of site)	c.1968–present	Hydrocarbons, PAHs, metals, asbestos, solvents
Source 2	Off-Site Potential – Historical	Unspecified quarry (4m SW), ground workings (4m SW), pits (6m W), railway station (14m S), refuse heaps (33m W, 63m SE)	1890–1955	Ground gas, metals, hydrocarbons, PAHs, leachate, asbestos
Source 3	Off-Site Potential – Current	Container/storage (128m E), unspecified works/factories (138m E), colours, chemicals & water softeners (143m E), construction & tool hire (146m & 171m E), general-purpose machinery (174m E), vehicle cleaning services (193m S), various industrial/commercial uses (209m–234m E/SE/NE/SW), railway stations/junctions/halts (242m SW)	Current	Hydrocarbons, solvents, VOCs, metals, detergents, fire suppressants
Source 4	Other	Licensed industrial activities (138m E), surface ground workings (25 entries, nearest 4m SW quarry), artificial/made ground (11 entries, nearest 2m SW quarry infill)	1904–Current	Ground gas, metals, VOCs, organic solvents, infill materials

Potential Receptors

Relevant potential receptors are considered to include:

⇒ Construction workers during groundworks (hardstanding).
⇒ Third parties (adjacent Site users and adjacent residents).
⇒ Future Site users (residential).
⇒ Secondary A Aquifer
⇒ The Built Environment (the building and infrastructure / utilities).

Potential Pathways

The potential pathways are considered to be:

⇒ Direct contact, ingestion or inhalation of soil bound contaminants / dust during or following
⇒ redevelopment.
⇒ Inhalation of organic vapours associated with contamination.
⇒ Migration of ground gas / vapours into on-site buildings.
⇒ Leaching of contamination into groundwater followed by migration of groundwater to the wider groundwater environment.

Pollutant Linkage Assessment

Source	Pathway	Receptor	Risk Rating	Justification and any Mitigation	Investigation Required
Former domestic garages (on-site)	Soil, vapour migration	Site users, groundwater	Low to Moderate	Limited scale of historical garages and localized hardstanding suggest low contaminant volumes. Existing ground cover and structures reduce direct exposure and vapour ingress. The risk to future site users via direct exposure is low to moderate due to potential residual contamination from domestic garage use and associated hardstanding beneath the site.	Targeted soil and potential vapour investigation recommended.
Historical quarry and pits (off-site)	Groundwater, soil gas migration	Site users, groundwater	Low to Moderate	Quarry infill is now developed with residential properties reducing direct pathways. Distance and natural attenuation reduce contaminant migration risk. Monitoring and gas protection considered prudent for future developments. The risk to future site users via direct exposure is low to moderate given the proximity of historic quarry infill and potential for residual contamination migrating beneath the site, whilst considering subsequent development into residential land use.	Groundwater and ground gas monitoring recommended.
Current industrial / commercial sites (off-site)	Surface water runoff, vapour migration	Site users, groundwater	Low	Nearby industrial uses are at sufficient distance, with surface drainage and hydrogeological barriers limiting pathways. No significant historical contamination recorded. The risk to future site users via direct exposure is low to moderate despite the distance, due to the nature of industrial activities potential vapour migration or surface runoff from surrounding industrial sites.	Incorporate into investigation, focus on site drainage and potential for vapour risks.
Made ground and infilled	Soil contact, vapour, groundwater	Site users, groundwater	Low to Moderate	Made ground extent is unknown from surface ground workings. Consideration is given to the proximity and type of activities associated, length of time since activities have ceased, subsequent	Site-specific intrusive

residential (off-site)				redevelopment to residential land use or continued use (e.g. Railway), groundwater abstraction distances, and aquifer properties limiting migration. The risk to future site users via direct exposure is low to moderate due to unknown treatment, if any of artificial ground.	investigations recommended.

Conclusions and Recommendations

Land Contamination Summary	
Uncertainty and Data Gaps	This assessment is based solely on desk study information, with no site-specific ground investigation data available at this stage. The extent and nature of made ground and infilled areas beneath the site remain uncertain. Intrusive investigations are recommended to confirm soil conditions, contaminant presence, and groundwater quality.
Soils	The site is underlain by East Carlton Grit (sandstone), classified as a Secondary A Aquifer with fractured porosity and moderate to high permeability. No superficial deposits are recorded directly beneath the site, reducing the likelihood of shallow contaminant migration. Historical land use was primarily agricultural with limited small-scale built structures such as domestic garages and minor allotments. Historical quarry infill adjacent to the site has since been developed with residential housing.
Groundwater	The site is underlain by East Carlton Grit (sandstone), classified as a Secondary A Aquifer with fractured porosity and moderate to high permeability. No superficial deposits are recorded directly beneath the site, reducing the likelihood of shallow contaminant migration. Historical land use was primarily agricultural with limited small-scale built structures such as domestic garages and minor allotments. Historical quarry infill adjacent to the site has since been developed with residential housing.
Ground Gas	Ground gas risk is considered low to moderate due to potential migration from infilled quarry areas and made ground both on and off-site. The presence of residential properties over historic infill reduces direct exposure risks but gas monitoring and protective measures, such as gas barriers or ventilated foundations, should be considered for future development.
Volatile Organic Vapours	The risk of vapour intrusion is low to moderate, reflecting limited potential contamination from former domestic garages, historical quarry infill, and nearby industrial/commercial uses. The fractured sandstone aquifer and absence of significant on-site industrial sources suggest that vapour concentrations are unlikely to reach harmful levels; however, vapour risk assessment during intrusive investigations is recommended as a precaution.
Potential Contaminated Land Development Risks	The site presents moderate to low contamination risks due to historical agricultural use, nearby industrial activities (including the former Steeley Chemicals' Site), and potential for residual contaminants in made ground. Key risks include groundwater contamination from industrial chemicals and possible ground gas or vapour migration. The permeable soils and fractured bedrock increase the likelihood of contaminant spread. Groundwater testing, gas monitoring, and vapour risk assessments are recommended before development to assess and mitigate potential risks.

Recommendations and Development	
Ground Investigation Recommendations	Based on the preliminary assessment, an intrusive investigation is recommended to assess the presence and chemical nature of infilled land, potential residual contamination from historical uses, and risks to groundwater and site users. The ground investigations should include: ⇒ Soil Sampling: To determine composition and contamination in surface deposits, characterise made ground and potential depth and composition of underlying bedrock soils. ⇒ Boreholes: To assess geology, depth, and potential for groundwater contamination. ⇒ Standard Penetration Tests (SPT): To assess soil compaction and bearing capacity. ⇒ Soil Analysis: For contaminants such as hydrocarbons, heavy metals, VOCs, and solvents. ⇒ Groundwater Sampling: To test for chemical contaminants migrating into aquifers. Given the site's underlying Secondary A aquifer and proximity to potable abstractions, careful groundwater monitoring and management will be essential. ⇒ Gas Monitoring: To assess the risk of methane, carbon dioxide, and VOCs. ⇒ Water Table Monitoring: To assess groundwater levels and contamination movement. ⇒ Leachate Testing: To be considered if initial findings or made ground composition indicate the presence of waste materials or contaminants with potential to leach into groundwater, particularly given the sensitive hydrogeological setting. Results will inform necessary mitigation measures (e.g., gas barriers, remediation) and enable a detailed assessment of pollutant linkages. Soil testing and classification may also be required for the reuse or disposal of surplus soils.
Development Considerations	Health and Safety: Safe working practices must be followed throughout all intrusive works. Site workers should be equipped with appropriate Personal Protective Equipment (PPE) to minimize exposure to potential contaminants. Mitigation Measures: Depending on investigation findings, installation of gas protection systems (barriers or ventilation) may be required to safeguard future site users. Material Management: Soil testing and classification should guide the reuse or disposal of excavated materials to ensure compliance with waste regulations and avoid spreading contamination.

Appendices

Appendix 1: Risk Evaluation

Appendix 2: Site Photographs

Appendix 3: Groundsure Enviro + Geo Insight

Appendix 4: Historical Map Selection

Appendix 5: Zetica UXO Mapping

Appendix 6: Development Plans

Appendix 7: Document Production Record

If you require clarification of the information contained herein, please do not hesitate to contact us via 01244 661170.

Yours Sincerely,

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Appendix 1: Risk Evaluation

PRINCIPLES OF RISK EVALUATION

The risk evaluation methodology presented below is qualitative in nature and is therefore a subjective method. It is based upon guidance presented in CIRIA publication referenced C552, 'Contaminated land risk assessment ~ A guide to good practice', 2001 and involves the classification of the following:

- The magnitude of the potential consequence (severity) of risk occurring
- The magnitude of the probability (likelihood) of the risk occurring
- These are then considered in conjunction to give a risk matrix

Consequence to Receptor Definition Matrix			
	Human Health	**Controlled Waters**	**Buildings/Services**
Severe Consequence	Acute or chronic permanent impact on human health.	Sensitive controlled water pollution ongoing, or just about to occur.	Catastrophic collapse
Medium Consequence	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
Mild Consequence	Chronic temporary impact on human health	Gradual pollution of non-sensitive controlled water	Damage to building rendering it unsafe.to occupy (e.g. foundation damage resulting in instability).
Minor Consequence	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc).	Slight discoloration of water	Easily repairable effects of damage to buildings, structures and services, i.e. discoloration of concrete

Probability Definitions	
Probability	**Definition in Context**
Higher	There is a pollution linkage and an event that 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. Positive evidence of source, pathway and receptor.
Likely	There is a pollution linkage, and all the elements are present and in the right place, 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. Suspect source, pathway, and receptor
Low Likelihood	There is a pollution linkage, and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term. No evidence of hazard, pathway, and receptor

Standard Risk Matrix

		Consequence/Magnitude of impact			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**High**	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/low	Low
	Low Likelihood	Moderate	Moderate/low	Low	Very Low
	Unlikely	Moderate/low	Low	Very Low	Very Low

Classified risks and likely action

Significance Level	Definition/Comments
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. Demonstrable contaminated land situation, highest threat & liability level, urgent action recommended.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term. Likely contaminated land situation, risk assessment and action recommended.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, if is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. Plausible contaminated land situation, risk assessment and possible action recommended.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Unlikely contaminated land situation, possible risk assessment and possible action.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe. Negligible risk, no action recommended except vigilance for changes in conditions.

Appendix 2: Site Photographs

Site Walkover Photos

Plate 1: Small garage unit to southwest of site north of Olney Street

Plate 2: Facing northwest at western boundary and northwest corner

Plate 3: Facing northeast corner

Plate 4: Facing west from mid-south of site

Plate 5: From southwest boundary facing northwest

Plate 6: From southwest facing northeast

Plate 7: From mid centre of site facing north/northwest

Plate 8: From southwest of site facing east to second garage unit off Olney Street

Plate 9: On hardstanding in southwest facing south onto Olney Street

Plate 10: From mid-northwest boundary facing east across site

Appendix 3: Groundsure Enviro + Geo Insight

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Order Details

Date: 16/05/2025

Your ref: Garages at the end of Olney Street, HD7 5EG

Our Ref: GS-9LO-D5U-9ZS-9ZI

Site Details

Location: 408079 414350

Area: 0.04 ha

Authority: Kirklees Council ↗

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
15 >	1.1 >	Historical industrial land uses >	0	6	44	61	-
20 >	1.2 >	Historical tanks >	0	0	8	49	-
22 >	1.3 >	Historical energy features >	0	0	3	14	-
23	1.4	Historical petrol stations	0	0	0	0	-
23 >	1.5 >	Historical garages >	0	0	0	5	-
24	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
25 >	2.1 >	Historical industrial land uses >	0	9	53	80	-
31 >	2.2 >	Historical tanks >	0	0	10	59	-
33 >	2.3 >	Historical energy features >	0	0	6	21	-
35	2.4	Historical petrol stations	0	0	0	0	-
35 >	2.5 >	Historical garages >	0	0	0	6	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
36	3.1	Active or recent landfill	0	0	0	0	-
36	3.2	Historical landfill (BGS records)	0	0	0	0	-
37 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	2	-
37	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
37 >	3.5 >	Historical waste sites >	0	0	0	2	-
38 >	3.6 >	Licensed waste sites >	0	0	5	2	-
40 >	3.7 >	Waste exemptions >	0	0	9	5	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
42 >	4.1 >	Recent industrial land uses >	0	0	17	-	-
44	4.2	Current or recent petrol stations	0	0	0	0	-
44	4.3	Electricity cables	0	0	0	0	-
44	4.4	Gas pipelines	0	0	0	0	-
44	4.5	Sites determined as Contaminated Land	0	0	0	0	-

44	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
45	4.7	Regulated explosive sites	0	0	0	0	-
45	4.8	Hazardous substance storage/usage	0	0	0	0	-
45	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
45 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	5	4	-
47 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	2	-
47	4.12	Radioactive Substance Authorisations	0	0	0	0	-
48 >	4.13 >	Licensed Discharges to controlled waters >	0	0	1	4	-
49	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
49	4.15	Pollutant release to public sewer	0	0	0	0	-
49	4.16	List 1 Dangerous Substances	0	0	0	0	-
49 >	4.17 >	List 2 Dangerous Substances >	0	0	0	4	-
50 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	9	-
51	4.19	Pollution inventory substances	0	0	0	0	-
51	4.20	Pollution inventory waste transfers	0	0	0	0	-
51	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
52 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
54 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
55 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
56	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
56	5.5	Groundwater vulnerability- local information	None (within 0m)				
57 >	5.6 >	Groundwater abstractions >	0	0	0	0	19
62 >	5.7 >	Surface water abstractions >	0	0	0	1	35
71 >	5.8 >	Potable abstractions >	0	0	0	0	10
74	5.9	Source Protection Zones	0	0	0	0	-
74	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	6.1 >	Water Network (OS MasterMap) >	0	0	9	-	-

76 >	6.2 >	Surface water features >	0	0	5	-	-
77 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
77 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
77 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
79	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
79	7.2	Historical Flood Events	0	0	0	-	-
79	7.3	Flood Defences	0	0	0	-	-
80	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
80	7.5	Flood Storage Areas	0	0	0	-	-
81	7.6	Flood Zone 2	None (within 50m)				
81	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
82	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
83 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
84	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
85	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
85	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
85	10.4	Special Protection Areas (SPA)	0	0	0	0	0
85	10.5	National Nature Reserves (NNR)	0	0	0	0	0
86	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
86	10.7	Designated Ancient Woodland	0	0	0	0	0
86	10.8	Biosphere Reserves	0	0	0	0	0
86	10.9	Forest Parks	0	0	0	0	0
87	10.10	Marine Conservation Zones	0	0	0	0	0
87 >	10.11 >	Green Belt >	0	0	1	0	0
87	10.12	Proposed Ramsar sites	0	0	0	0	0

87	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
88	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
88	10.15	Nitrate Sensitive Areas	0	0	0	0	0
88	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
89 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
90	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
91	11.1	World Heritage Sites	0	0	0	-	-
92	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
92	11.3	National Parks	0	0	0	-	-
92 >	11.4 >	Listed Buildings >	0	0	6	-	-
93 >	11.5 >	Conservation Areas >	0	0	1	-	-
93	11.6	Scheduled Ancient Monuments	0	0	0	-	-
93	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
95	12.2	Open Access Land	0	0	0	-	-
95	12.3	Tree Felling Licences	0	0	0	-	-
95 >	12.4 >	Environmental Stewardship Schemes >	0	0	1	-	-
96	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations** >	On site	0-50m	50-250m	250-500m	500-2000m
97 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
98	13.2	Habitat Networks	0	0	0	-	-
98	13.3	Open Mosaic Habitat	0	0	0	-	-
98	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
99 >	14.1 >	10k Availability >	Identified (within 500m)				
100 >	14.2 >	Artificial and made ground (10k) >	0	1	4	6	-
102 >	14.3 >	Superficial geology (10k) >	0	0	2	2	-

103 >	14.4 >	Landslip (10k) >	0	0	0	1	-
104 >	14.5 >	Bedrock geology (10k) >	1	1	7	6	-
105 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	0	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
106 >	15.1 >	50k Availability >	Identified (within 500m)				
107 >	15.2 >	Artificial and made ground (50k) >	0	0	1	1	-
108	15.3	Artificial ground permeability (50k)	0	0	-	-	-
109 >	15.4 >	Superficial geology (50k) >	0	0	2	2	-
110	15.5	Superficial permeability (50k)	None (within 50m)				
110 >	15.6 >	Landslip (50k) >	0	0	0	1	-
110	15.7	Landslip permeability (50k)	None (within 50m)				
111 >	15.8 >	Bedrock geology (50k) >	1	1	7	2	-
112 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
112 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	0	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	16.1 >	BGS Boreholes >	0	0	2	-	-
Page	Section	**Natural ground subsidence** >					
115 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
117 >	17.2 >	Running sands >	Negligible (within 50m)				
118 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
119 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
120 >	17.5 >	Landslides >	Low (within 50m)				
122 >	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
124 >	18.1 >	BritPits >	0	1	1	2	-
126 >	18.2 >	Surface ground workings >	0	8	15	-	-
127	18.3	Underground workings	0	0	0	0	0
127	18.4	Underground mining extents	0	0	0	0	-
127	18.5	Historical Mineral Planning Areas	0	0	0	0	-

127 >	18.6 >	Non-coal mining >	1	0	0	0	1
128	18.7	JPB mining areas	None (within 0m)				
128	18.8	The Coal Authority non-coal mining	0	0	0	0	-
128	18.9	Researched mining	0	0	0	0	-
129	18.10	Mining record office plans	0	0	0	0	-
129	18.11	BGS mine plans	0	0	0	0	-
129 >	18.12 >	Coal mining >	Identified (within 0m)				
129	18.13	Brine areas	None (within 0m)				
130	18.14	Gypsum areas	None (within 0m)				
130	18.15	Tin mining	None (within 0m)				
130	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
131	19.1	Natural cavities	0	0	0	0	-
131	19.2	Mining cavities	0	0	0	0	0
131	19.3	Reported recent incidents	0	0	0	0	-
131	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
133 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
135 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
135	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
135	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
136	22.1	Underground railways (London)	0	0	0	-	-
136	22.2	Underground railways (Non-London)	0	0	0	-	-
137	22.3	Railway tunnels	0	0	0	-	-
137 >	22.4 >	Historical railway and tunnel features >	0	0	8	-	-
137	22.5	Royal Mail tunnels	0	0	0	-	-
138	22.6	Historical railways	0	0	0	-	-

138 >	22.7 >	Railways >	0	0	14	-	-
139	22.8	Crossrail 2	0	0	0	0	-
139	22.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 30/05/2021

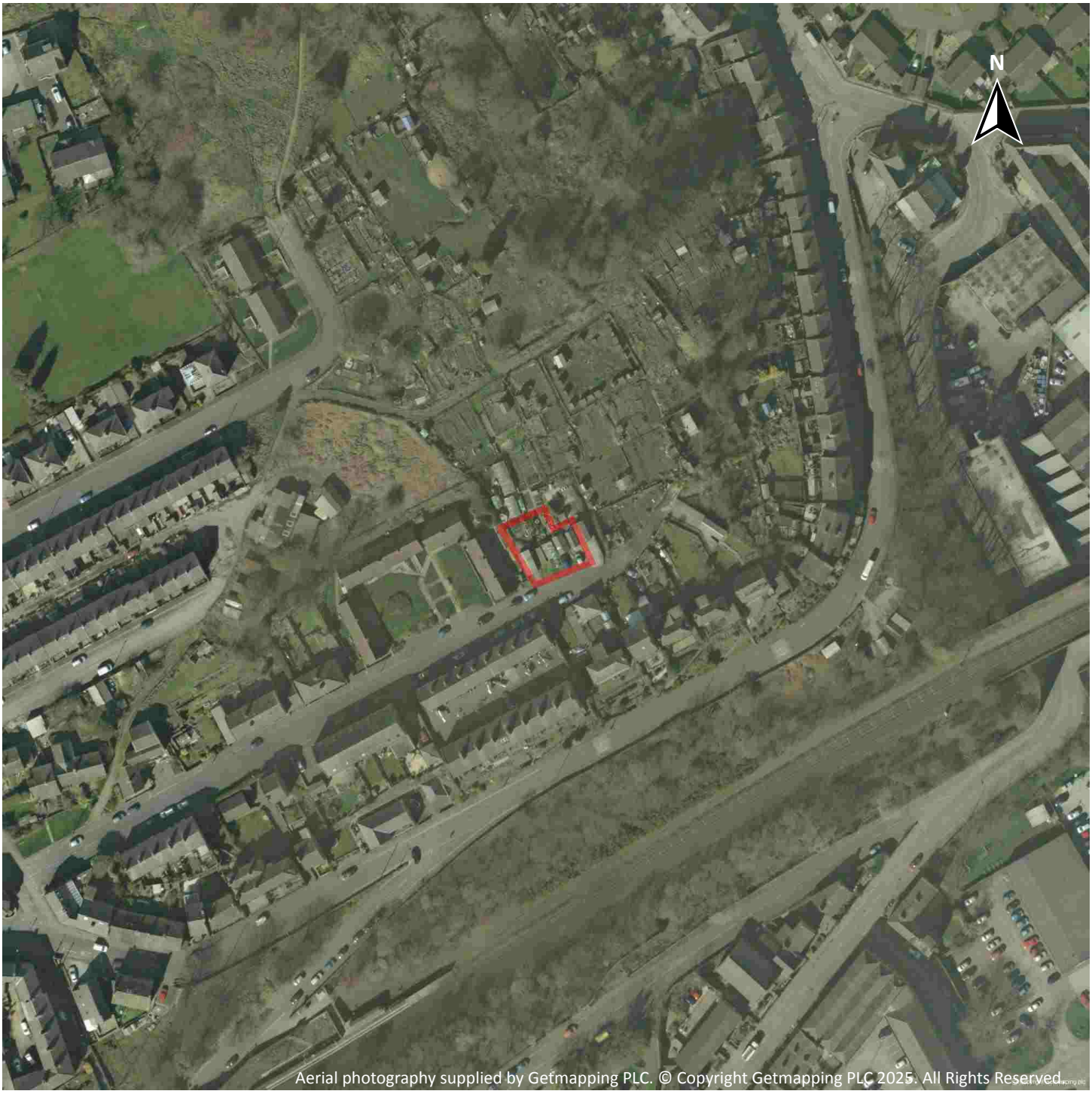
Site Area: 0.04ha

Recent site history - 2018 aerial photograph

Capture Date: 01/07/2018

Site Area: 0.04ha

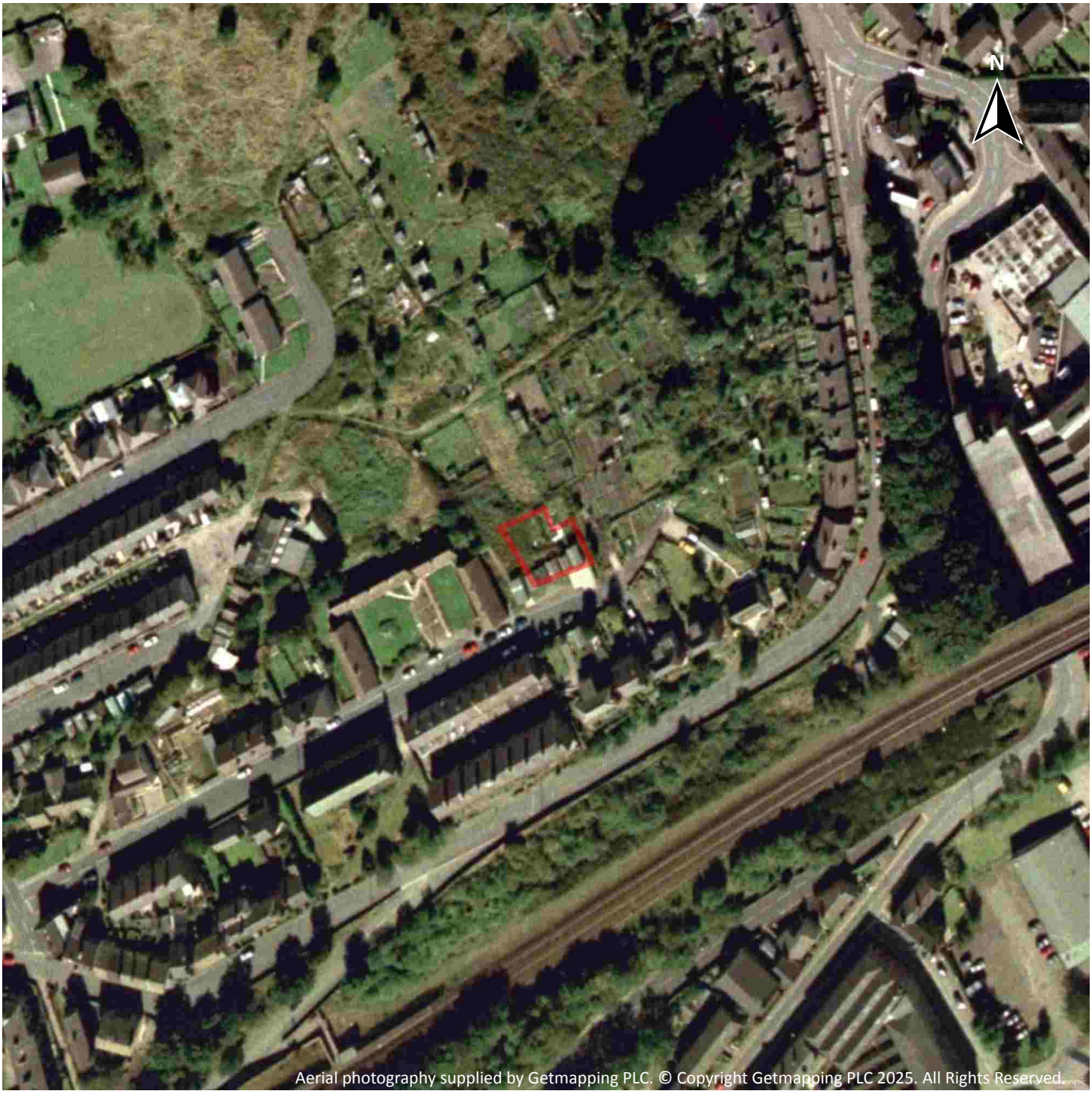
Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.04ha

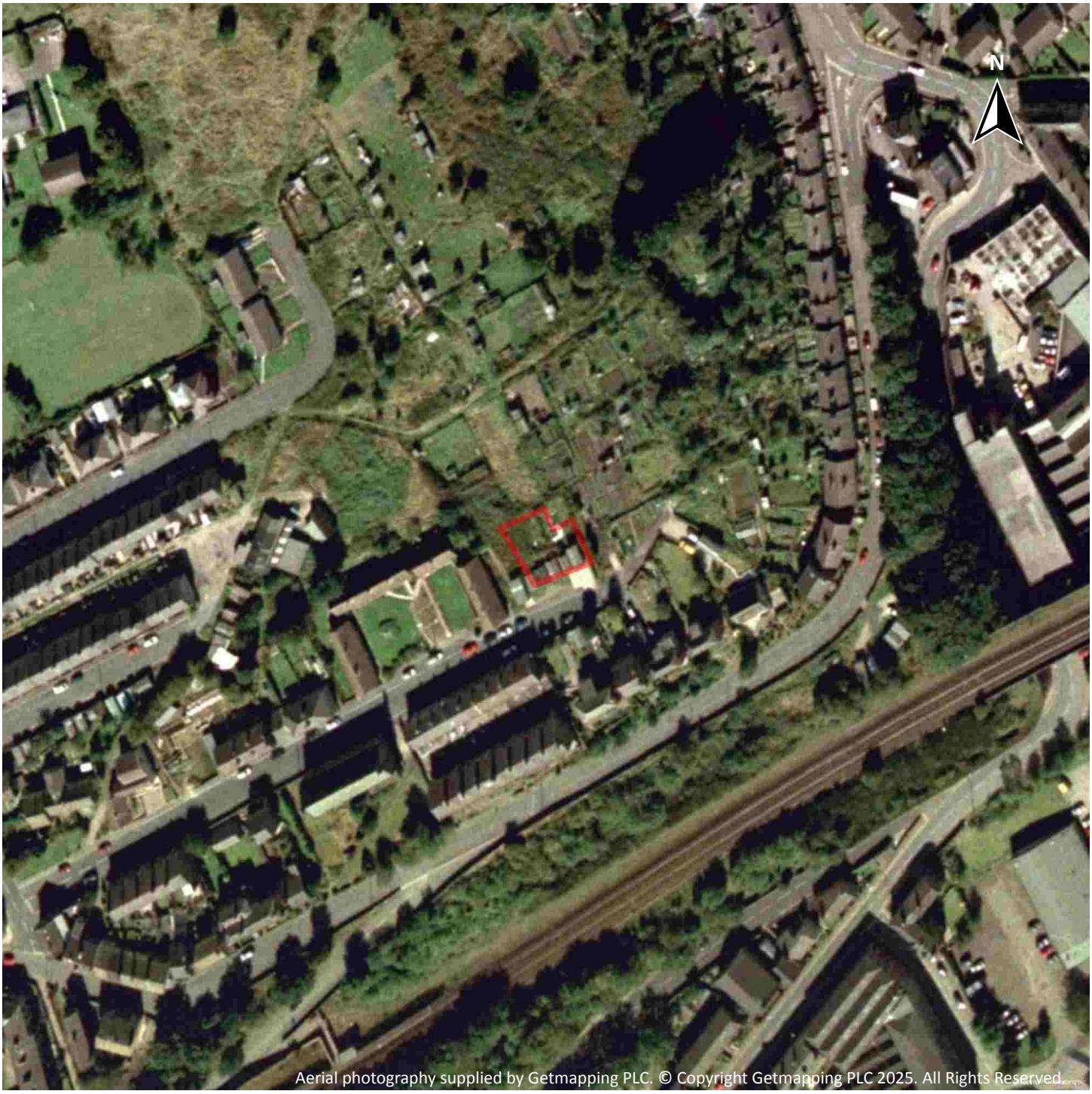
Recent site history - 2000 aerial photograph



Capture Date: 21/09/2000

Site Area: 0.04ha

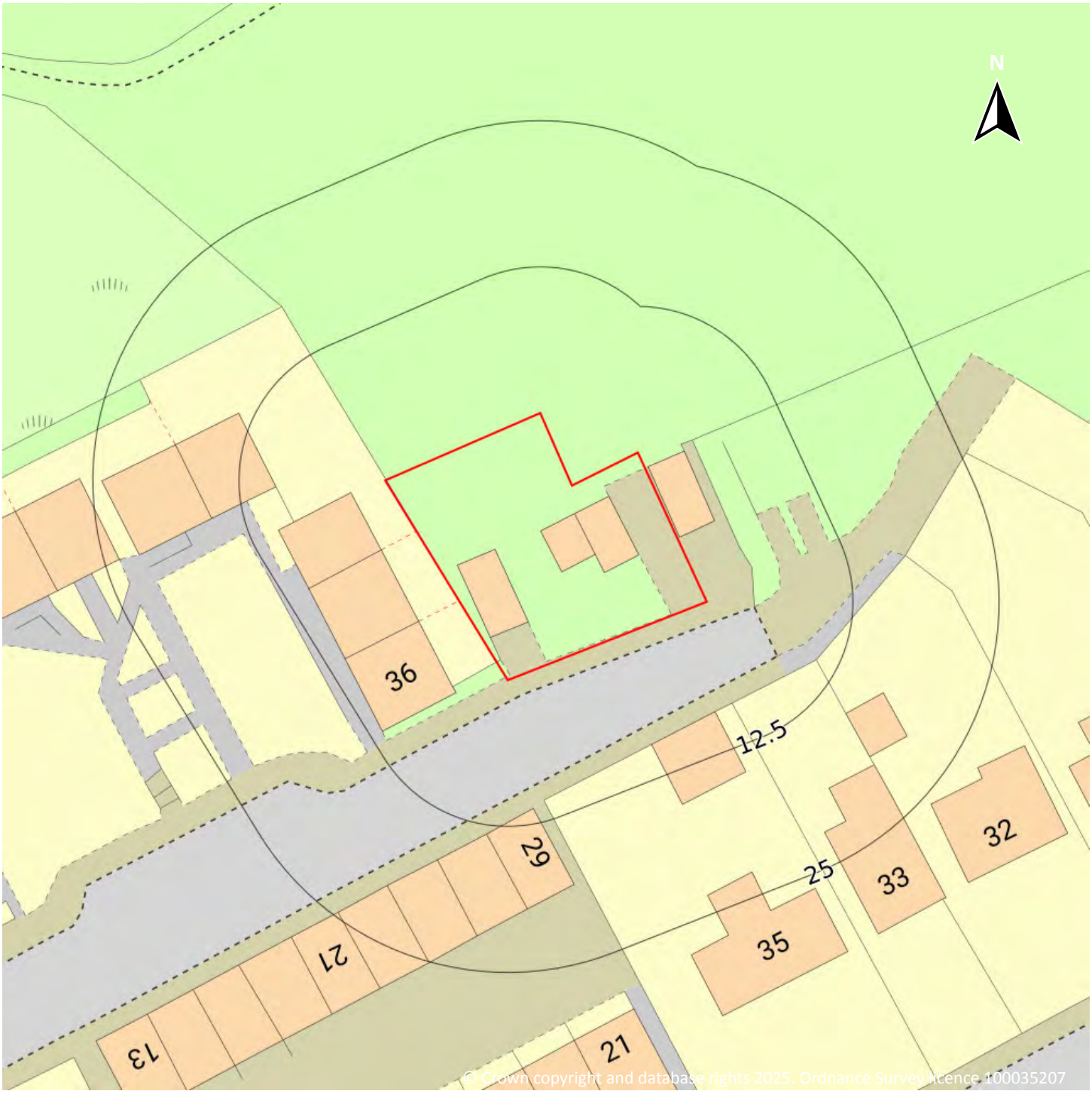
Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

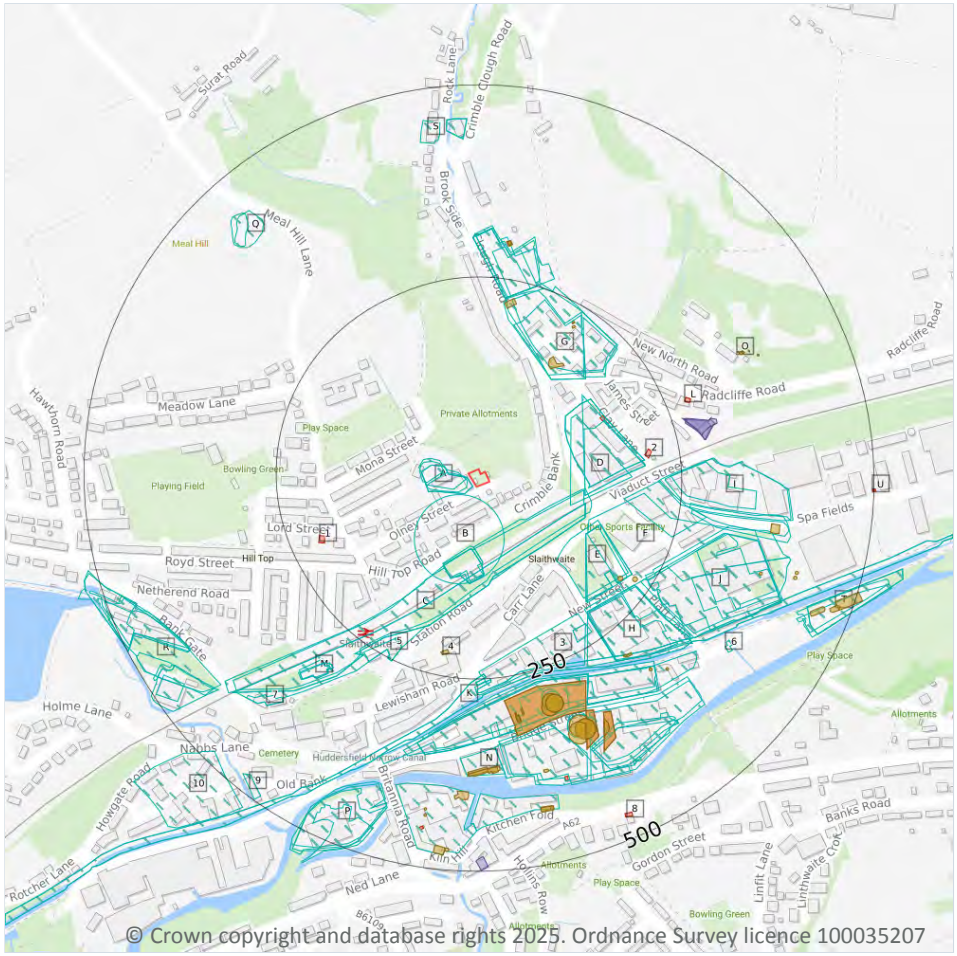
Site Area: 0.04ha

OS MasterMap site plan



Site Area: 0.04ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	111

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	4m SW	Unspecified Quarry	1890 - 1904	1497002

ID	Location	Land use	Dates present	Group ID
A	4m SW	Unspecified Ground Workings	1948	1517806
A	6m W	Unspecified Ground Workings	1930	1547618
A	6m W	Unspecified Pits	1955	1477633
B	14m S	Railway Station	1890	1519441
A	33m W	Refuse Heap	1930	1539919
C	63m SE	Railway Sidings	1955	1551190
C	68m SE	Railway Sidings	1930 - 1948	1488604
B	77m S	Railway Station	1948 - 1955	1553610
B	81m S	Railway Station	1904	1529389
B	81m S	Railway Station	1930	1506733
C	90m SE	Railway Sidings	1904	1530660
C	90m SE	Railway Sidings	1890	1542995
D	105m E	Unspecified Mill	1891	1448373
D	114m E	Unspecified Mills	1978	1445947
D	114m E	Unspecified Mill	1955	1534019
D	124m E	Unspecified Mill	1930 - 1948	1529557
D	124m E	Unspecified Mill	1905	1491036
E	129m SE	Unspecified Mill	1955	1579146
F	138m E	Sewage Works	1891	1470502
E	142m SE	Spinning Mills	1905	1433915
E	142m SE	Unspecified Mill	1948	1508536
E	143m SE	Unspecified Mill	1930	1582312
G	148m NE	Unspecified Mills	1890	1499540
G	148m NE	Unspecified Mills	1904 - 1948	1577497
G	150m NE	Unspecified Mills	1955	1579201
G	161m NE	Unspecified Mill	1978	1565961
F	176m E	Unspecified Works	1978	1460166
G	178m NE	Unspecified Mill	1930	1576974

ID	Location	Land use	Dates present	Group ID
3	206m SE	Unspecified Mills	1930 - 1948	1515508
H	207m SE	Unspecified Mill	1955	1561829
H	212m SE	Spinning Mills	1948	1523805
H	212m SE	Spinning Mills	1905	1574004
H	213m SE	Unspecified Mills	1978	1445963
H	214m SE	Unspecified Mill	1930	1499421
H	217m SE	Unspecified Mill	1905	1513253
I	219m E	Sewage Works	1948	1532251
5	221m SW	Railway Building	1930	1475696
H	222m SE	Fire Station	1978	1443113
G	225m N	Unspecified Mill	1930 - 1948	1486830
G	225m N	Unspecified Mills	1904	1575688
G	227m N	Old Silk Mill	1890	1479579
I	229m E	Sewage Works	1930	1548311
G	229m N	Unspecified Mills	1978	1555162
I	235m E	Engineering Works	1978	1479000
J	236m SE	Unspecified Mill	1948	1568643
J	237m SE	Unspecified Mill	1955 - 1978	1506381
J	243m SE	Unspecified Mill	1930	1501194
K	244m S	Disused Canal	1955	1506762
K	244m S	Disused Canal	1978	1580275
K	259m S	Unspecified Mills	1955	1558619
K	262m S	Unspecified Mills	1930 - 1948	1580662
I	263m E	Sewage Works	1955	1569333
K	265m S	Unspecified Commercial/Industrial	1904	1544724
K	265m S	Unspecified Commercial/Industrial	1890	1582453
I	266m E	Sewage Works	1905	1553522
K	267m S	Unspecified Mills	1978	1519739

ID	Location	Land use	Dates present	Group ID
K	279m S	Unspecified Tank	1955 - 1978	1564679
H	280m SE	Unspecified Works	1978	1460167
K	283m S	Unspecified Tank	1890 - 1904	1551555
K	283m S	Unspecified Tank	1948	1554687
J	284m E	Unspecified Mill	1905	1551450
H	284m SE	Spinning Mills	1905	1433914
H	284m SE	Unspecified Mills	1930 - 1948	1577878
K	285m S	Unspecified Tank	1930	1538764
J	291m SE	Unspecified Mills	1891	1445955
M	298m SW	Railway Building	1948 - 1955	1518508
M	298m SW	Railway Building	1890 - 1904	1505947
M	301m SW	Railway Building	1930	1572222
K	315m S	Unspecified Mills	1955	1490855
K	321m S	Unspecified Tank	1955 - 1978	1545284
K	323m S	Unspecified Mill	1930 - 1948	1545750
K	324m S	Unspecified Tank	1904 - 1948	1505022
K	324m SE	Unspecified Tank	1890	1513897
K	328m SE	Unspecified Mills	1930	1495070
K	330m S	Unspecified Mill	1978	1546460
K	333m SE	Unspecified Tank	1930	1529209
N	340m S	Unspecified Mill	1978	1503329
K	355m SE	Mill Pond	1955	1530011
K	361m SE	Mill Pond	1930 - 1948	1556595
K	361m SE	Mill Pond	1905	1578294
6	372m SE	Unspecified Tank	1948 - 1955	1545689
7	373m SW	Railway Station	1930	1443177
N	391m S	Unspecified Mills	1978	1445964
K	399m S	Unspecified Works	1978	1460154

ID	Location	Land use	Dates present	Group ID
P	406m S	Unspecified Mills	1955 - 1978	1490972
P	407m S	Unspecified Mills	1930	1541032
K	407m SE	Unspecified Tank	1930	1472488
K	408m SE	Unspecified Tank	1955	1472472
Q	409m NW	Unspecified Pit	1968 - 1978	1506634
Q	415m NW	Unspecified Quarry	1930	1464011
P	420m S	Unspecified Mills	1948	1548920
R	420m SW	Unspecified Mill	1930	1507560
R	427m SW	Unspecified Mills	1978	1445961
R	427m SW	Chemical Works	1968	1459811
S	427m N	Vine Yard	1955	1455205
R	428m SW	Unspecified Mill	1948 - 1955	1566843
R	429m SW	Mills	1968	1446313
R	429m SW	Mill Pond	1930 - 1948	1557436
S	430m N	Vine Yard	1904	1492751
S	430m N	Vine Yard	1948	1534813
T	434m SE	Sewage Works	1955	1566885
T	437m SE	Sewage Works	1930	1544927
T	444m E	Sewage Works	1905	1538417
T	444m E	Sewage Works	1948	1543753
P	447m S	Unspecified Mills	1890 - 1904	1514538
R	457m SW	Ground Workings	1968	1445817
R	458m SW	Unspecified Works	1978	1460165
R	463m W	Unspecified Mill	1890 - 1904	1545355
9	476m SW	Unspecified Works	1978	1460170
10	484m SW	Unspecified Works	1930	1486246

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	57

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 15 >**

ID	Location	Land use	Dates present	Group ID
G	159m NE	Tanks	1932	234715
E	209m SE	Unspecified Tank	1892	239891
G	213m N	Tanks	1906 - 1932	245942
4	215m S	Unspecified Tank	1906 - 1932	244859
G	219m NE	Tanks	1977	234722
G	224m NE	Tanks	1977	255177
G	224m NE	Tanks	1968	255621
E	225m SE	Unspecified Tank	1906	239894
K	271m S	Gas Works	1892 - 1906	251962
K	285m S	Unspecified Tank	1932	254525
K	285m S	Gasometer	1892 - 1906	257889
H	285m SE	Tanks	1918	234725
K	288m S	Gasholder	1968	236587
K	288m S	Unspecified Tank	1977	244416
G	293m N	Unspecified Tank	1990	255900
G	293m N	Unspecified Tank	1977	248444
G	293m N	Unspecified Tank	1992 - 1996	253493
G	293m N	Unspecified Tank	1968	253839
K	294m S	Unspecified Tank	1968	239896
K	298m S	Unspecified Tank	1992	252769
K	299m S	Unspecified Tank	1996	261673

ID	Location	Land use	Dates present	Group ID
K	302m S	Unspecified Tank	1977 - 1990	259348
H	320m SE	Unspecified Tank	1892	239889
K	323m SE	Gas Works	1892	236955
K	324m S	Unspecified Tank	1906 - 1932	255528
K	331m SE	Gasometer	1892	237188
K	332m SE	Gasholder	1968	236588
K	332m SE	Unspecified Tank	1977	248109
K	332m S	Unspecified Tank	1892	251942
H	334m SE	Unspecified Tank	1906	239895
K	334m SE	Gas Works	1906	236973
K	342m SE	Gasometer	1906	237242
O	363m NE	Unspecified Tank	1918	260716
N	364m S	Tanks	1906	246935
N	365m S	Tanks	1932	258639
O	365m NE	Unspecified Tank	1990	251763
N	365m S	Tanks	1968	244640
O	367m NE	Unspecified Tank	1968	249348
O	367m NE	Unspecified Tank	1977	254559
J	371m E	Unspecified Tank	1892	239890
I	371m E	Tanks	1918	234724
O	377m NE	Unspecified Tank	1906	239892
K	379m S	Tanks	1892	234718
O	385m NE	Unspecified Tank	1906	239893
N	396m S	Tanks	1932	234716
J	415m E	Tanks	1892	234721
J	415m E	Tanks	1892	234720
N	423m S	Unspecified Tank	1906	239882
K	425m S	Tanks	1983	248251

ID	Location	Land use	Dates present	Group ID
K	426m S	Tanks	1983	245012
K	426m S	Tanks	1968	256901
N	430m S	Unspecified Tank	1892	239881
T	450m E	Tanks	1918	234726
N	469m S	Tanks	1983 - 1994	250702
N	471m S	Tanks	1983 - 1994	247503
T	472m E	Tanks	1906	253104
T	476m E	Tanks	1918	249516

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**17**

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 15 >**

ID	Location	Land use	Dates present	Group ID
D	165m NE	Electricity Substation	1992 - 1996	147983
1	204m W	Electricity Substation	1992 - 1994	155362
2	205m E	Electricity Substation	1992 - 1996	146383
K	271m S	Gas Works	1892 - 1906	156775
L	275m E	Electricity Substation	1992 - 1996	149918
K	285m S	Gasometer	1892 - 1906	157359
K	288m S	Gasholder	1968	142077
K	323m SE	Gas Works	1892	144884
K	331m SE	Gasometer	1892	141861
K	332m SE	Gasholder	1968	142078

ID	Location	Land use	Dates present	Group ID
K	334m SE	Gas Works	1906	144916
K	342m SE	Gasometer	1906	141971
K	394m S	Electricity Substation	1968 - 1983	150912
N	447m S	Electricity Substation	1983 - 1994	159798
8	466m SE	Electricity Substation	1968 - 1994	159344
U	498m E	Electricity Substation	1990	154785
U	498m E	Electricity Substation	1990	161998

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	5

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 15 >**

ID	Location	Land use	Dates present	Group ID
L	265m E	Garage	1992	49870
L	265m E	Garage	1996	52085
L	266m E	Garage	1990	46873
L	268m E	Garage	1977	48126

ID	Location	Land use	Dates present	Group ID
N	481m S	Garage	1968	45700

This data is sourced from Ordnance Survey / Groundsure.

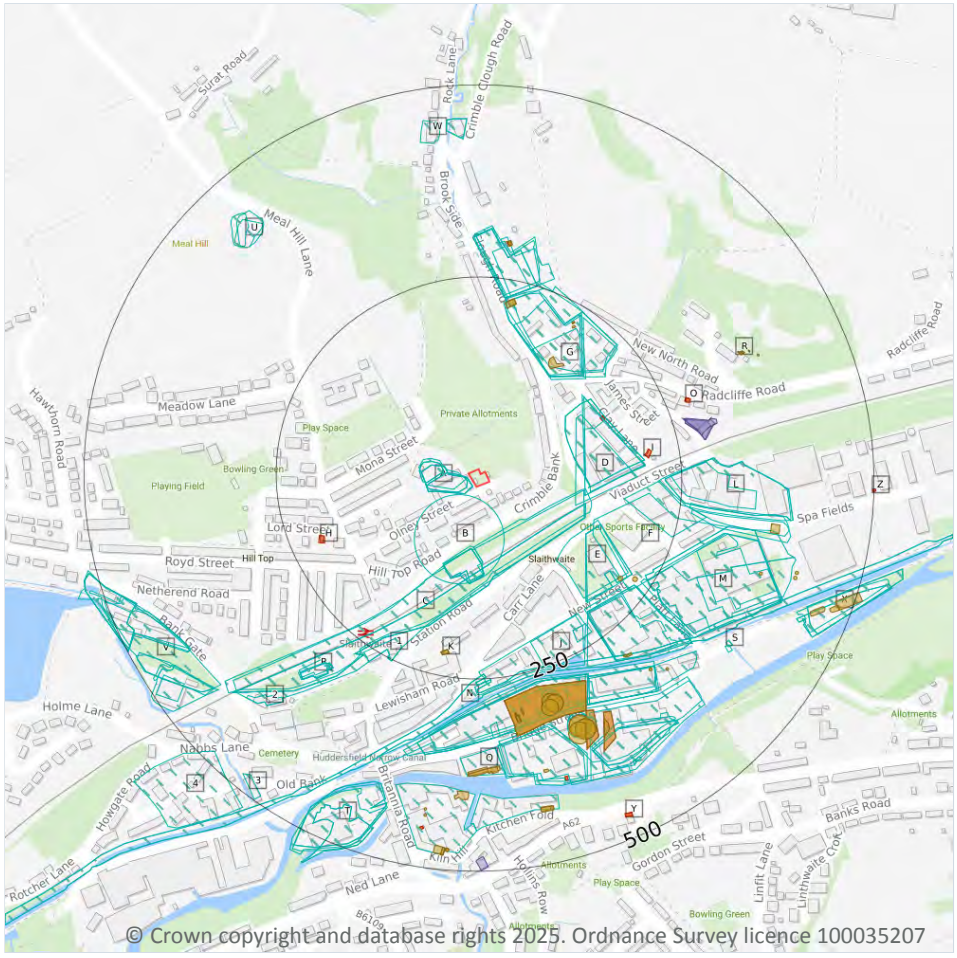
1.6 Historical military land

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



2.1 Historical industrial land uses

Records within 500m	142

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 25 >**

ID	Location	Land Use	Date	Group ID
A	4m SW	Unspecified Quarry	1904	1497002
A	4m SW	Unspecified Quarry	1890	1497002
A	4m SW	Unspecified Ground Workings	1948	1517806

ID	Location	Land Use	Date	Group ID
A	6m W	Unspecified Ground Workings	1930	1547618
A	6m W	Unspecified Ground Workings	1930	1547618
A	6m W	Unspecified Pits	1955	1477633
B	14m S	Railway Station	1890	1519441
A	33m W	Refuse Heap	1930	1539919
A	33m W	Refuse Heap	1930	1539919
C	63m SE	Railway Sidings	1955	1551190
C	68m SE	Railway Sidings	1930	1488604
B	77m S	Railway Station	1955	1553610
B	81m S	Railway Station	1948	1553610
B	81m S	Railway Station	1904	1529389
B	81m S	Railway Station	1930	1506733
C	90m SE	Railway Sidings	1948	1488604
C	90m SE	Railway Sidings	1904	1530660
C	90m SE	Railway Sidings	1890	1542995
D	112m E	Unspecified Mill	1891	1448373
D	114m E	Unspecified Mills	1978	1445947
D	114m E	Unspecified Mill	1955	1534019
D	124m E	Unspecified Mill	1948	1529557
D	124m E	Unspecified Mill	1905	1491036
D	125m E	Unspecified Mill	1930	1529557
E	129m SE	Unspecified Mill	1955	1579146
E	142m SE	Unspecified Mill	1948	1508536
E	142m SE	Spinning Mills	1905	1433915
E	143m SE	Unspecified Mill	1930	1582312
F	145m E	Sewage Works	1891	1470502
G	148m NE	Unspecified Mills	1890	1499540
G	149m NE	Unspecified Mills	1930	1577497

ID	Location	Land Use	Date	Group ID
G	150m NE	Unspecified Mills	1948	1577497
G	150m NE	Unspecified Mills	1955	1579201
G	150m NE	Unspecified Mills	1904	1577497
G	161m NE	Unspecified Mill	1978	1565961
F	176m E	Unspecified Works	1978	1460166
G	178m NE	Unspecified Mill	1930	1576974
J	206m SE	Unspecified Mills	1930	1515508
J	207m SE	Unspecified Mills	1948	1515508
J	207m SE	Unspecified Mill	1955	1561829
J	212m SE	Spinning Mills	1948	1523805
J	212m SE	Spinning Mills	1905	1574004
J	213m SE	Unspecified Mills	1978	1445963
J	214m SE	Unspecified Mill	1930	1499421
J	217m SE	Unspecified Mill	1905	1513253
L	219m E	Sewage Works	1948	1532251
1	221m SW	Railway Building	1930	1475696
J	222m SE	Fire Station	1978	1443113
G	225m N	Unspecified Mill	1948	1486830
G	225m N	Unspecified Mills	1904	1575688
G	227m N	Old Silk Mill	1890	1479579
G	228m N	Unspecified Mill	1930	1486830
L	229m E	Sewage Works	1930	1548311
L	229m E	Sewage Works	1930	1548311
G	229m N	Unspecified Mills	1978	1555162
L	235m E	Engineering Works	1978	1479000
M	236m SE	Unspecified Mill	1948	1568643
M	237m SE	Unspecified Mill	1978	1506381
M	237m SE	Unspecified Mill	1955	1506381

ID	Location	Land Use	Date	Group ID
M	243m SE	Unspecified Mill	1930	1501194
N	244m S	Disused Canal	1978	1580275
N	244m S	Disused Canal	1955	1506762
N	259m S	Unspecified Mills	1955	1558619
N	262m S	Unspecified Mills	1930	1580662
L	263m E	Sewage Works	1955	1569333
N	265m S	Unspecified Mills	1948	1580662
N	265m S	Unspecified Commercial/Industrial	1904	1544724
N	265m S	Unspecified Commercial/Industrial	1890	1582453
L	266m E	Sewage Works	1905	1553522
N	267m S	Unspecified Mills	1978	1519739
N	279m S	Unspecified Tank	1978	1564679
N	279m S	Unspecified Tank	1955	1564679
J	280m SE	Unspecified Works	1978	1460167
N	283m S	Unspecified Tank	1948	1554687
N	283m S	Unspecified Tank	1904	1551555
N	283m S	Unspecified Tank	1890	1551555
M	284m E	Unspecified Mill	1905	1551450
J	284m SE	Unspecified Mills	1948	1577878
J	284m SE	Spinning Mills	1905	1433914
N	285m S	Unspecified Tank	1930	1538764
J	287m SE	Unspecified Mills	1930	1577878
M	297m SE	Unspecified Mills	1891	1445955
P	298m SW	Railway Building	1955	1518508
P	298m SW	Railway Building	1948	1518508
P	298m SW	Railway Building	1904	1505947
P	298m SW	Railway Building	1890	1505947
P	301m SW	Railway Building	1930	1572222

ID	Location	Land Use	Date	Group ID
N	315m S	Unspecified Mills	1955	1490855
N	321m S	Unspecified Tank	1978	1545284
N	321m S	Unspecified Tank	1955	1545284
N	323m S	Unspecified Mill	1930	1545750
N	324m S	Unspecified Tank	1930	1505022
N	324m SE	Unspecified Tank	1948	1505022
N	324m SE	Unspecified Tank	1904	1505022
N	324m SE	Unspecified Tank	1890	1513897
N	325m S	Unspecified Mill	1948	1545750
N	328m SE	Unspecified Mills	1930	1495070
N	330m S	Unspecified Mill	1978	1546460
N	333m SE	Unspecified Tank	1930	1529209
Q	340m S	Unspecified Mill	1978	1503329
N	355m SE	Mill Pond	1955	1530011
N	361m SE	Mill Pond	1948	1556595
N	361m SE	Mill Pond	1905	1578294
N	363m SE	Mill Pond	1930	1556595
S	372m SE	Unspecified Tank	1955	1545689
2	373m SW	Railway Station	1930	1443177
S	374m SE	Unspecified Tank	1948	1545689
Q	391m S	Unspecified Mills	1978	1445964
N	399m S	Unspecified Works	1978	1460154
T	406m S	Unspecified Mills	1978	1490972
T	406m S	Unspecified Mills	1955	1490972
T	407m S	Unspecified Mills	1930	1541032
N	407m SE	Unspecified Tank	1930	1472488
N	408m SE	Unspecified Tank	1955	1472472
U	409m NW	Unspecified Pit	1978	1506634

ID	Location	Land Use	Date	Group ID
U	410m NW	Unspecified Pit	1968	1506634
U	415m NW	Unspecified Quarry	1930	1464011
T	420m S	Unspecified Mills	1948	1548920
V	420m SW	Unspecified Mill	1930	1507560
V	427m SW	Unspecified Mills	1978	1445961
V	427m SW	Chemical Works	1968	1459811
W	427m N	Vine Yard	1955	1455205
V	428m SW	Unspecified Mill	1955	1566843
V	429m SW	Mills	1968	1446313
V	429m SW	Mill Pond	1948	1557436
W	430m N	Vine Yard	1948	1534813
W	430m N	Vine Yard	1904	1492751
V	431m SW	Mill Pond	1930	1557436
X	434m SE	Sewage Works	1955	1566885
X	437m SE	Sewage Works	1930	1544927
X	437m SE	Sewage Works	1930	1544927
X	444m E	Sewage Works	1948	1543753
X	444m E	Sewage Works	1905	1538417
T	447m S	Unspecified Mills	1904	1514538
T	447m S	Unspecified Mills	1890	1514538
V	457m SW	Ground Workings	1968	1445817
V	458m SW	Unspecified Works	1978	1460165
V	463m W	Unspecified Mill	1948	1566843
V	463m W	Unspecified Mill	1904	1545355
V	463m W	Unspecified Mill	1890	1545355
3	476m SW	Unspecified Works	1978	1460170
4	484m SW	Unspecified Works	1930	1486246

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	69

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 25 >**

ID	Location	Land Use	Date	Group ID
G	159m NE	Tanks	1932	234715
E	209m SE	Unspecified Tank	1892	239891
G	213m N	Tanks	1906	245942
K	215m S	Unspecified Tank	1906	244859
K	215m S	Unspecified Tank	1932	244859
G	215m N	Tanks	1932	245942
G	219m NE	Tanks	1977	234722
G	224m NE	Tanks	1968	255621
G	224m NE	Tanks	1977	255177
E	225m SE	Unspecified Tank	1906	239894
N	271m S	Gas Works	1892	251962
N	271m S	Gas Works	1906	251962
N	285m S	Gasometer	1906	257889
N	285m S	Unspecified Tank	1932	254525
J	285m SE	Tanks	1918	234725
N	288m S	Gasholder	1968	236587
N	288m S	Unspecified Tank	1977	244416
N	292m S	Gasometer	1892	257889
G	293m N	Unspecified Tank	1990	255900
G	293m N	Unspecified Tank	1990	255900
G	293m N	Unspecified Tank	1968	253839
G	293m N	Unspecified Tank	1992	253493
G	293m N	Unspecified Tank	1977	248444

ID	Location	Land Use	Date	Group ID
G	294m N	Unspecified Tank	1996	253493
N	294m S	Unspecified Tank	1968	239896
N	298m S	Unspecified Tank	1992	252769
N	299m S	Unspecified Tank	1996	261673
N	302m S	Unspecified Tank	1990	259348
N	302m S	Unspecified Tank	1990	259348
N	302m S	Unspecified Tank	1977	259348
J	320m SE	Unspecified Tank	1892	239889
N	323m SE	Gas Works	1892	236955
N	324m S	Unspecified Tank	1906	255528
N	324m S	Unspecified Tank	1932	255528
N	331m SE	Gasometer	1892	237188
N	332m SE	Gasholder	1968	236588
N	332m SE	Unspecified Tank	1977	248109
N	332m S	Unspecified Tank	1892	251942
J	334m SE	Unspecified Tank	1906	239895
N	334m SE	Gas Works	1906	236973
N	342m SE	Gasometer	1906	237242
R	363m NE	Unspecified Tank	1918	260716
Q	364m S	Tanks	1906	246935
Q	365m S	Tanks	1932	258639
R	365m NE	Unspecified Tank	1990	251763
R	365m NE	Unspecified Tank	1990	251763
Q	365m S	Tanks	1968	244640
R	367m NE	Unspecified Tank	1968	249348
R	367m NE	Unspecified Tank	1977	254559
M	371m E	Unspecified Tank	1892	239890
L	371m E	Tanks	1918	234724

ID	Location	Land Use	Date	Group ID
R	377m NE	Unspecified Tank	1906	239892
N	379m S	Tanks	1892	234718
R	385m NE	Unspecified Tank	1906	239893
Q	396m S	Tanks	1932	234716
M	415m E	Tanks	1892	234721
M	415m E	Tanks	1892	234720
Q	423m S	Unspecified Tank	1906	239882
N	425m S	Tanks	1983	248251
N	426m S	Tanks	1983	245012
N	426m S	Tanks	1968	256901
Q	430m S	Unspecified Tank	1892	239881
X	450m E	Tanks	1918	234726
Q	469m S	Tanks	1983	250702
Q	471m S	Tanks	1994	250702
Q	471m S	Tanks	1983	247503
Q	472m S	Tanks	1994	247503
X	472m E	Tanks	1906	253104
X	476m E	Tanks	1918	249516

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m **27**

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 25 >**

ID	Location	Land Use	Date	Group ID
D	165m NE	Electricity Substation	1992	147983
D	166m NE	Electricity Substation	1996	147983

ID	Location	Land Use	Date	Group ID
H	204m W	Electricity Substation	1994	155362
I	205m E	Electricity Substation	1992	146383
H	205m W	Electricity Substation	1992	155362
I	206m E	Electricity Substation	1996	146383
N	271m S	Gas Works	1892	156775
N	271m S	Gas Works	1906	156775
O	275m E	Electricity Substation	1992	149918
O	275m E	Electricity Substation	1996	149918
N	285m S	Gasometer	1906	157359
N	288m S	Gasholder	1968	142077
N	292m S	Gasometer	1892	157359
N	323m SE	Gas Works	1892	144884
N	331m SE	Gasometer	1892	141861
N	332m SE	Gasholder	1968	142078
N	334m SE	Gas Works	1906	144916
N	342m SE	Gasometer	1906	141971
N	394m S	Electricity Substation	1983	150912
N	395m S	Electricity Substation	1968	150912
Q	447m S	Electricity Substation	1983	159798
Q	447m S	Electricity Substation	1994	159798
Y	466m SE	Electricity Substation	1983	159344
Y	467m SE	Electricity Substation	1994	159344
Y	467m SE	Electricity Substation	1968	159344
Z	498m E	Electricity Substation	1990	154785
Z	498m E	Electricity Substation	1990	161998

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	6

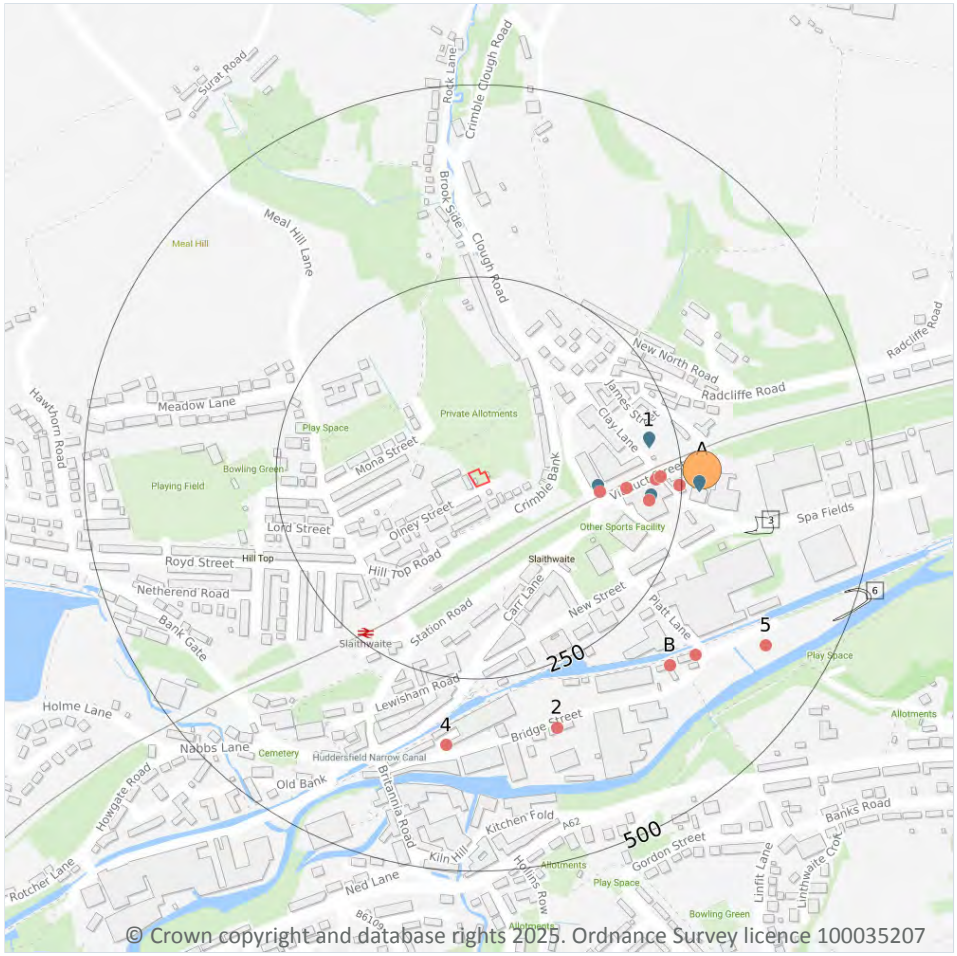
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 25 >**

ID	Location	Land Use	Date	Group ID
O	265m E	Garage	1992	49870
O	265m E	Garage	1996	52085
O	266m E	Garage	1990	46873
O	266m E	Garage	1990	46873
O	268m E	Garage	1977	48126
Q	481m S	Garage	1968	45700

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 36 >**

ID	Location	Site address	Source	Data type
3	339m E	Refuse Tip	1967 mapping	Polygon
6	482m E	Refuse Tip	1967 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	0

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

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

3.5 Historical waste sites

Records within 500m	2

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 36 >**

ID	Location	Address	Further Details	Date
A	252m E	Site Address: Crimble Viaduct,Radcliffe Road, Viaduct Street, Slaithwaite, HUDDERSFIELD, West Yorkshire, HD7 5BN	Type of Site: Waste Transfer Station Planning application reference: 2009/93363 Description: Scheme comprises change of use from scrap yard to waste transfer & skip hire. An application (ref: 2009/93363) for detailed planning permission was submitted to Kirklees B.C. A detailed planning application has been submitted. Data source: Historic Planning Application Data Type: Point	11/02/2011

ID	Location	Address	Further Details	Date
A	252m E	Site Address: Crimble Viaduct, Viaduct St, Radcliffe Road,Slaithwaite, Crimble, HUDDERSFIELD, West Yorkshire, HD7 5BN	Type of Site: Waste Transfer Station Planning application reference: 2009/62/93363/W0 Description: Scheme comprises change of use from scrap yard to waste transfer station & skip hire business. An application (ref: 2009/62/93363/W0) for detailed planning permission was granted by Kirklees B.C. A detailed planning application has been granted. Data source: Historic Planning Application Data Type: Point	30/05/2010

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

3.6 Licensed waste sites

Records within 500m	**7**

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

Features are displayed on the Waste and landfill map on **page 36 >**

ID	Location	Details		
A	140m E	Site Name: Cheap As Skips Site Address: Arch 4 Crimble Viaduct, Viaduct Street, Slaithwaite, Huddersfield, West Yorkshire, HD7 5DD Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRI073 EPR reference: EA/EPR/FP3892ER/V002 Operator: Price David Waste Management licence No: 101406 Annual Tonnage: 74999	Issue Date: 22/02/2010 Effective Date: - Modified: 12/02/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	140m E	Site Name: Cheap As Skips Site Address: Arch 4 Crimble Viaduct, Viaduct Street, Slaithwaite, Huddersfield, West Yorkshire, HD7 5DD Correspondence Address: -	Type of Site: - Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 627227 EPR reference: EA/EPR/FP3892ER Operator: David Price Waste Management licence No: 101406 Annual Tonnage: 74999	Issue Date: 22/02/2010 Effective Date: 22/02/2010 Modified: 22/02/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
A	210m E	Site Name: Clayfield Works Site Address: Clay Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 638284 EPR reference: EA/EPR/KP3995ZU Operator: J Bower Waste Management licence No: 61020 Annual Tonnage: 0	Issue Date: 25/02/1992 Effective Date: 25/02/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
A	210m E	Site Name: Clayfield Works Site Address: Clay Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 631740 EPR reference: EA/EPR/KP3995ZU Operator: J Bower Waste Management licence No: 61020 Annual Tonnage: 24999	Issue Date: 25/02/1992 Effective Date: 25/02/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
1	214m E	Site Name: Colne Valley Skip Hire Site Address: Land/premises At, Clay Lane, Crimble Arches, Huddersfield, West Yorkshire, HD7 5BG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 653319 EPR reference: EA/EPR/GP3395ZZ Operator: Colne Valley Skip Hire Waste Management licence No: 61007 Annual Tonnage: 10000	Issue Date: 04/02/1993 Effective Date: 04/02/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	272m E	Site Name: Clayfield Works Site Address: Clayfield Works, Crimble, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG Correspondence Address: Clayfield Works, Crimble, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JCB001 EPR reference: - Operator: J C Bower Ltd Waste Management licence No: 65527 Annual Tonnage: 24750	Issue Date: 01/03/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
A	272m E	Site Name: Clayfield Works Site Address: Clayfield Works, Crimble, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 653698 EPR reference: EA/EPR/EP3990LQ Operator: Bower Skip Hire Limited Waste Management licence No: 65527 Annual Tonnage: 24750	Issue Date: 01/03/2007 Effective Date: 01/03/2007 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	**14**

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

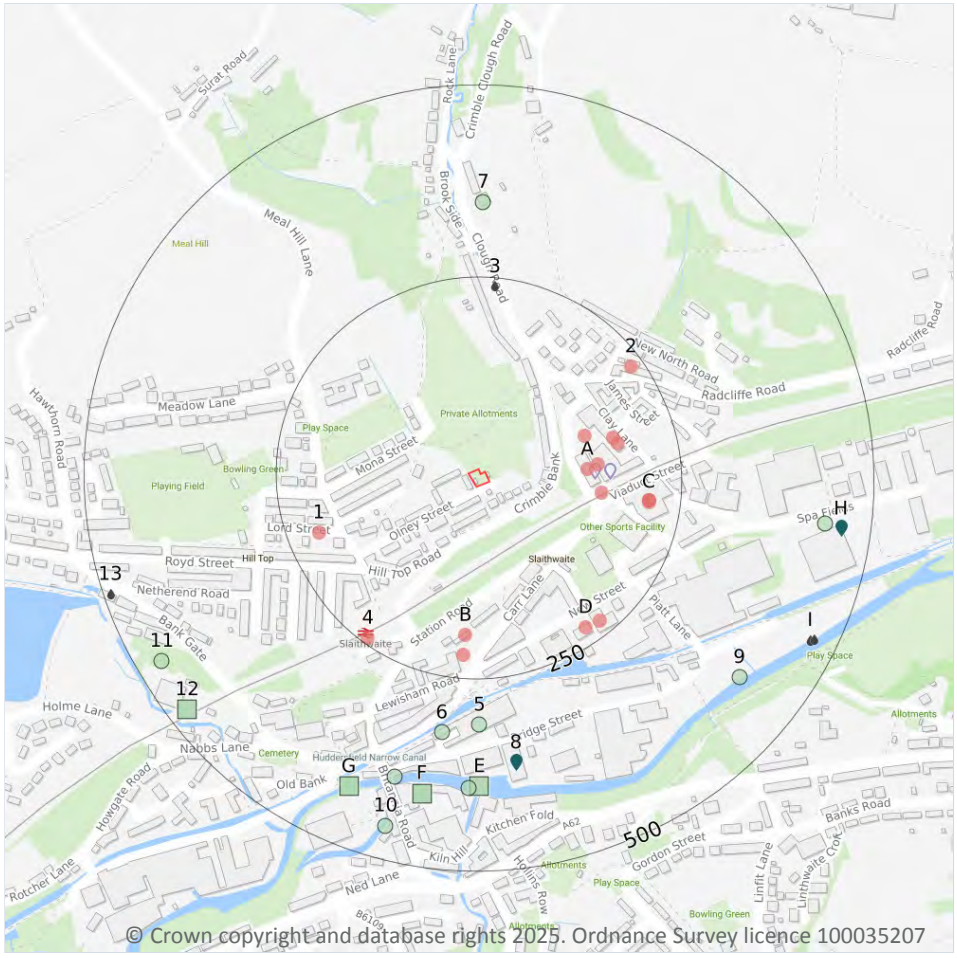
Features are displayed on the Waste and landfill map on **page 36 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	144m E	3-4 Viaduct Street Huddersfield West Yorkshire Hd7 5dd	EPR/WF0203PU/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
A	178m E	Unit 3-4 Viaduct Street Slaithwaite Huddersfield Hd7 5dd	EPR/FE5854AR/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
A	208m E	Bowkers, Clayfield Works, London Road, Huddersfield, Hd7 5bg	WEX300249	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
A	208m E	Bowkers, Clayfield Works, London Road, Huddersfield, Hd7 5bg	WEX300249	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	216m E	-	WEX353180	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
A	222m E	Bowkers, Clayfield Works, London Road, Huddersfield, Hd7 5bg	WEX166191	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance

ID	Location	Site	Reference	Category	Sub-Category	Description
A	222m E	Bowkers, Clayfield Works, London Road, Huddersfield, Hd7 5bg	WEX166191	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	246m E	Bowkers, Clayfield Works, Clay Lane, Slaithwaite, Huddersfield, Hd7 5bg	WEX006280	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
A	246m E	Clayfield Works, Clay Lane, Slaithwaite, Huddersfield, Hd7 5bg	WEX005691	Disposing of waste exemption	Not on a farm	Disposal by incineration
2	330m S	Kirklees Highways, Council Yard, Bridge Street, Slaithwaite, Hd7 5jn	WEX296519	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	335m SE	Land At Waterside Bridge Street Huddersfield Hd7 5ba	EPR/KE5251VL/A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
4	339m S	Kirklees Highways, Council Yard, Bridge Street, Slaithwaite, Hd7 5jn	WEX161449	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	349m SE	Kirklees Council Yard, Bridge Street, Slaithwaite, Huddersfield, Hd7 5ba	WEX001685	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
5	417m SE	Land At Waterside Bridge Street Huddersfield Hd7 5ba	EPR/LE5552WZ/A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	17

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 42 >**

ID	Location	Company	Address	Activity	Category
A	128m E	Colne Valley Self Storage	Unit 2 First Floor, Brook Mills, Carr Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BQ	Container and Storage	Transport, Storage and Delivery
A	138m E	Works	West Yorkshire, HD7	Unspecified Works Or Factories	Industrial Features

ID	Location	Company	Address	Activity	Category
A	143m E	Process Measurement & Analysis	Brook Mills House, Clay Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
A	146m E	Cheap As Skips Ltd	Cheap As Skips, 3-4 Crimble Arches, Viaduct Street, Slaithwaite, Huddersfield, West Yorkshire, HD7 5DD	Construction and Tool Hire	Hire Services
A	171m E	Bower Skip Hire Ltd	Clayfield Works, London Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Construction and Tool Hire	Hire Services
A	174m E	D M Textile Machinery Ltd	Brooks Mill, Clay Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	General Purpose Machinery	Industrial Products
B	193m S	Haighs Valet	34, Carr Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5AG	Vehicle Cleaning Services	Personal, Consumer and Other Services
C	209m E	Works	West Yorkshire, HD7	Unspecified Works Or Factories	Industrial Features
C	209m E	Hillbarn Services Ltd	Clayfield Works, London Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	General Construction Supplies	Industrial Products
C	209m E	Triline	Clayfield Works, London Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Food and Beverage Industry Machinery	Industrial Products
C	209m E	Dubbers Sports Ltd	Dubbers Clayfield Works, London Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Vehicle Repair, Testing and Servicing	Repair and Servicing
1	209m W	Electricity Sub Station	West Yorkshire, HD7	Electrical Features	Infrastructure and Facilities
B	219m S	Electricity Sub Station	West Yorkshire, HD7	Electrical Features	Infrastructure and Facilities
D	227m SE	Slaithwaite Fire Station	Slaithwaite Fire Station, New Street, Slaithwaite, Huddersfield, West Yorkshire, HD7 5AB	Fire Brigade Stations	Central and Local Government
D	231m SE	Ken Taylor Transport Ltd	Platt Mills, New Street, Slaithwaite, Huddersfield, West Yorkshire, HD7 5AB	Distribution and Haulage	Transport, Storage and Delivery
2	234m NE	Crimble Precision Industries Ltd	114, Radcliffe Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BN	Industrial Coatings and Finishings	Industrial Products
4	242m SW	Slaithwaite Rail Station	West Yorkshire, HD7	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	9

Records of Part A(1) 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 42 >**

ID	Location	Details	
A	138m E	Operator: GREENWORLD BIODIESEL LIMITED Installation Name: Brook Mill Biodiesel Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: RP3235GY Original Permit Number: RP3235GY	EPR Reference: EPR/RP3235GY Issue Date: 15/04/2009 Effective Date: 15/04/2009 Last date noted as effective: 28/04/2025 Status: Revoked

ID	Location	Details	
A	157m E	Operator: PROCESS MEASUREMENT & ANALYSIS LIMITED Installation Name: Slaithwaite Chemical Industry EPR/NP3330BM Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: NP3330BM Original Permit Number: NP3330BM	EPR Reference: EPR/NP3330BM Issue Date: 05/05/2005 Effective Date: 30/07/2007 Last date noted as effective: 28/04/2025 Status: Effective
A	157m E	Operator: Process Measurement & Analysis Ltd Installation Name: Slaithwaite Chemical Industry Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: UP3435LT Original Permit Number: NP3330BM	EPR Reference: - Issue Date: 28/02/2006 Effective Date: 28/02/2006 Last date noted as effective: 21/03/2023 Status: Superceded
A	157m E	Operator: Process Measurement & Analysis Ltd Installation Name: Slaithwaite Chemical Industry EPR/NP3330BM Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: PP3436UE Original Permit Number: NP3330BM	EPR Reference: - Issue Date: 30/07/2007 Effective Date: 30/07/2007 Last date noted as effective: 21/03/2023 Status: Effective
A	157m E	Operator: Process Measurement & Analysis Ltd Installation Name: Slaithwaite Chemical Industry Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: KP3538MK Original Permit Number: NP3330BM	EPR Reference: - Issue Date: 12/01/2007 Effective Date: 15/01/2007 Last date noted as effective: 21/03/2023 Status: Superceded
G	424m SW	Operator: BROOK DYEING COMPANY LIMITED Installation Name: BRITANNIA MILLS, SLATIHWAITE Process: COATING, PRINTING AND TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY Permit Number: BR4985IG Original Permit Number: BR4985IG	EPR Reference: EPR/BR4985IG Issue Date: 26/06/2003 Effective Date: 11/11/2011 Last date noted as effective: 28/04/2025 Status: Revoked
G	424m SW	Operator: BROOK DYEING CO LTD Installation Name: - Process: COATING, PRINTING & TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY Permit Number: BU9173 Original Permit Number: BR4985	EPR Reference: - Issue Date: 26/06/2003 Effective Date: 01/07/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
G	424m SW	Operator: BROOK DYEING CO LTD Installation Name: - Process: COATING, PRINTING & TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY Permit Number: BR4985 Original Permit Number: BR4985	EPR Reference: - Issue Date: - Effective Date: 17/01/2003 Last date noted as effective: 03/10/2005 Status: SUPERSEDED BY VARIATION

ID	Location	Details	
G	424m SW	Operator: Brook Dyeing Company Ltd Installation Name: BRITANNIA MILLS, SLATIHWAITE Process: COATING, PRINTING AND TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY Permit Number: BU9173IY Original Permit Number: BR4985IG	EPR Reference: - Issue Date: 26/06/2003 Effective Date: 11/11/2011 Last date noted as effective: 21/03/2023 Status: Revoked

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

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

Records within 500m **2**

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

Features are displayed on the Current industrial land use map on **page 42 >**

ID	Location	Address	Details	
8	362m S	Shaw Timber Ltd, Bridge Street, Slaithwaite, Huddersfield, HD7 5JN	Process: Timber Manufacture Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	461m E	Hillbrook Printing Inks Ltd, New Street, Slaithwaite, Huddersfield, HD7 5BB	Process: Manufacture of Coating Materials 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.

4.12 Radioactive Substance Authorisations

Records within 500m **0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	5

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 42 >**

ID	Location	Address	Details	
3	239m N	CLOUGHROADMILLS,SLAITHWAITE,HUDDERSFIELD,WESTYORKSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: WRA7110 Permit Version: 1 Receiving Water: CLOUGH BECK VIA MILL RACE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/11/1994 Effective Date: 28/11/1994 Revocation Date: 01/06/2010
I	465m SE	SPAMILLSBRIDGESTCSO,BRIDGE STREET,SLAITHWAITE,HUDDERSFIELD,WESTYORKSHIRE,HD75QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA7456 Permit Version: 1 Receiving Water: RIVER COLNE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/10/1998 Effective Date: 26/10/1998 Revocation Date: 17/03/2003
I	465m SE	SPAMILLSBRIDGESTCSO,BRIDGE STREET,SLAITHWAITE,HUDDERSFIELD,WESTYORKSHIRE,HD75QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA7456 Permit Version: 2 Receiving Water: RIVER COLNE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2003 Effective Date: 18/03/2003 Revocation Date: 06/03/2022
I	469m SE	SPAMILLSBRIDGESTCSO,BRIDGE STREET,SLAITHWAITE,HUDDERSFIELD,WESTYORKSHIRE,HD75QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA7456 Permit Version: 3 Receiving Water: RIVER COLNE	Status: VARIED UNDER EPR 2010 Issue date: 07/03/2022 Effective Date: 07/03/2022 Revocation Date: -
13	491m W	BANKGATEMILLS,BANKGATE,SLAITHWAITE,HUDDERSFIELD,WESTYORKSHIRE	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 3534 Permit Version: 1 Receiving Water: MERRYDALE CLOUGH	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 02/04/1981 Effective Date: 02/04/1981 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	4

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

Features are displayed on the Current industrial land use map on **page 42 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
E	390m S	Brook Dyeing Co. Ltd., Slaithwaite, Huddersfield	Not Active	Unknown	Permethrin
F	405m S	Brook Dyeing Co Ltd Slaithwaite Huddersfield Hd7 5he	Not Active	Unknown	Chromium, Permethrin
G	424m SW	Brook Dyeing Co Ltd Huddersfield	Active	None	Chromium
12	475m SW	Cole & Wilson Ltd	Not Active	Unknown	Cyanide

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	9

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 42 >**

ID	Location	Details	
5	310m S	Incident Date: 21/06/2002 Incident Identification: 86369 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)
6	323m S	Incident Date: 11/09/2002 Incident Identification: 107246 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)
7	348m N	Incident Date: 06/11/2002 Incident Identification: 119102 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	392m S	Incident Date: 24/06/2002 Incident Identification: 86962 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
F	392m S	Incident Date: 06/06/2002 Incident Identification: 83153 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	413m SE	Incident Date: 13/08/2001 Incident Identification: 23774 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)
H	439m E	Incident Date: 14/02/2003 Incident Identification: 137095 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	456m S	Incident Date: 22/06/2003 Incident Identification: 167794 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
11	467m SW	Incident Date: 02/11/2002 Incident Identification: 118404 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)

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

4.19 Pollution inventory substances

Records within 500m	**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m	**0**

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

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

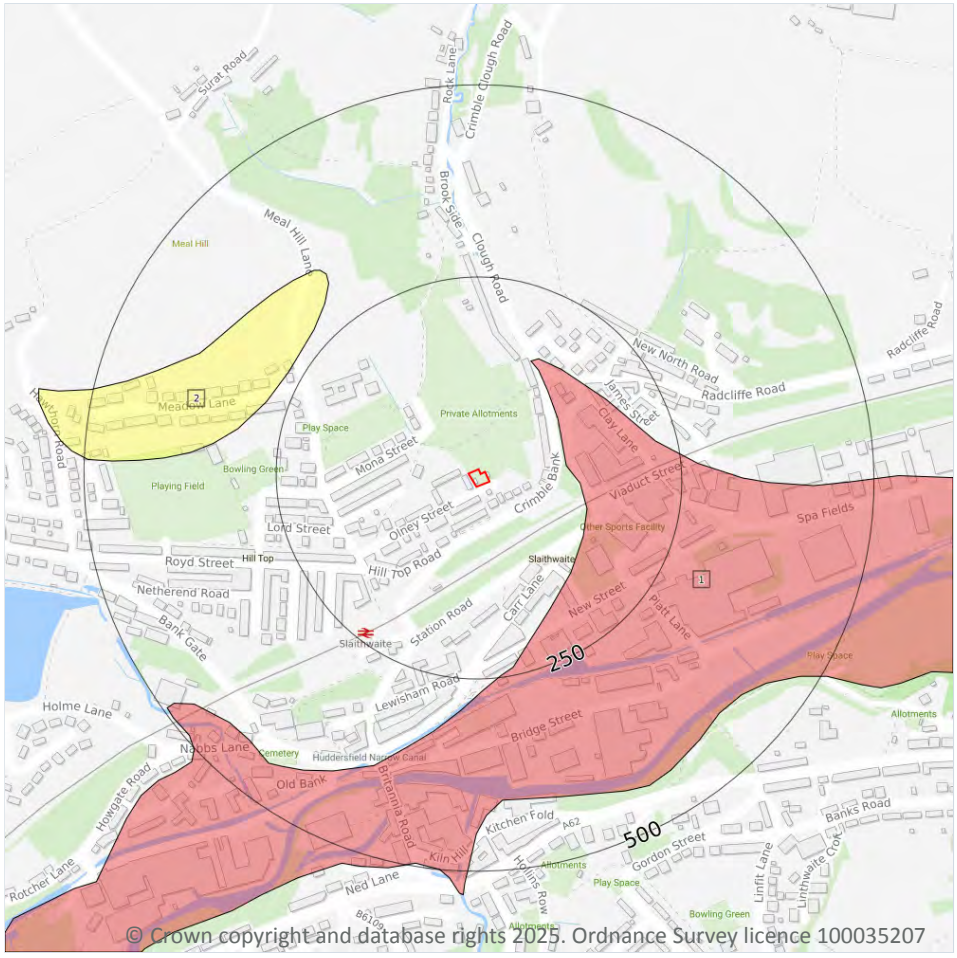
4.21 Pollution inventory radioactive waste

Records within 500m	**0**

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	2

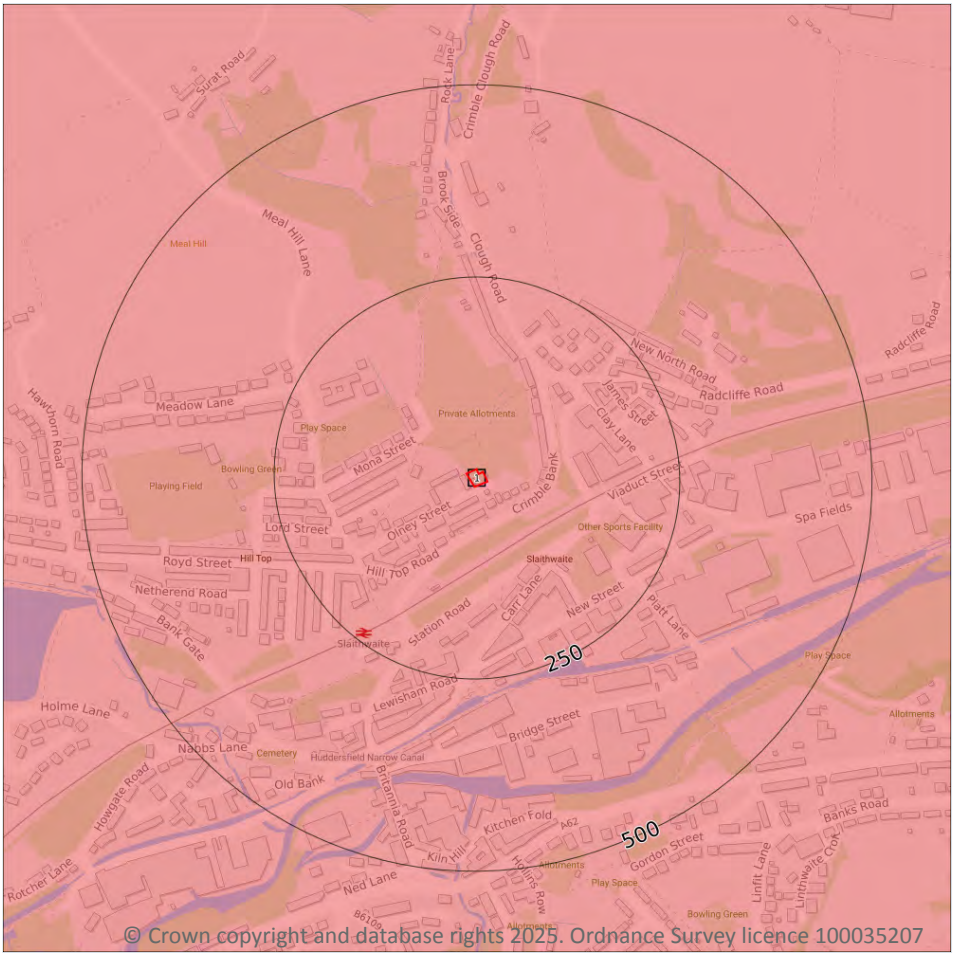
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 52 >**

ID	Location	Designation	Description
1	102m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	269m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m	1

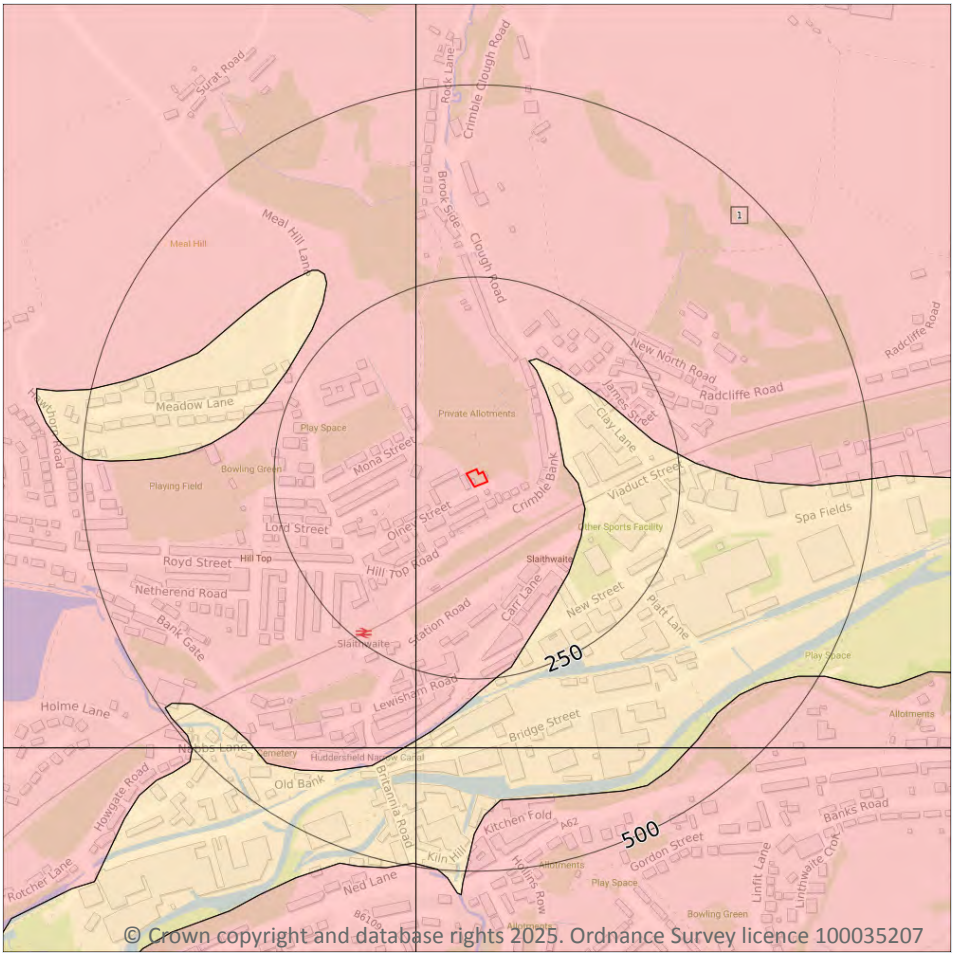
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 54 >**

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

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 55 >**

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

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.

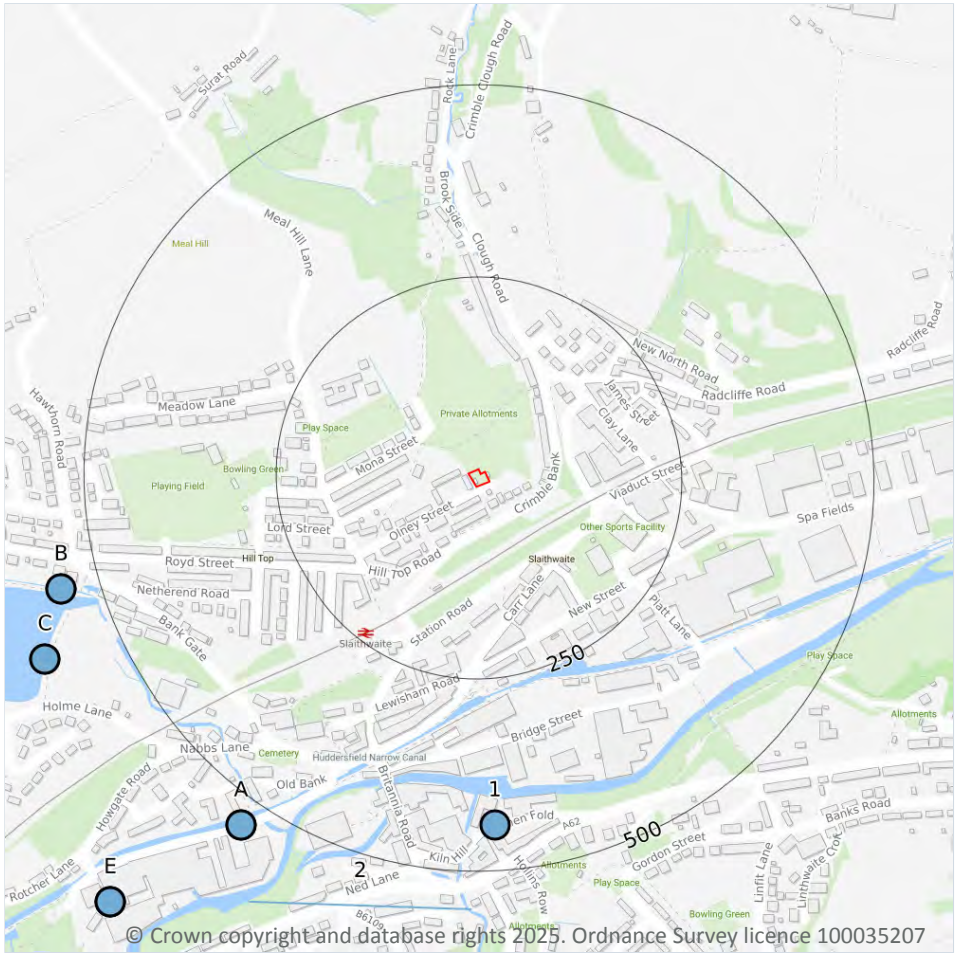
5.5 Groundwater vulnerability- local information

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



- Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	19

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 57 >**

ID	Location	Details	
E	720m SW	Status: Active Licence No: 2/27/11/113 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - SLAITHWAITE Data Type: Point Name: M and M Haskell Ltd Easting: 407600 Northing: 413800	Annual Volume (m^3): 102273 Max Daily Volume (m^3): 409.09 Original Application No: NPS/WR/042492 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 30/05/2024 Version End Date: -
E	720m SW	Status: Historical Licence No: 2/27/11/113 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: ROYDS PROPERTIES LIMITED Easting: 407600 Northing: 413800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/01/1998 Version End Date: -
-	723m E	Status: Historical Licence No: 2/27/11/019 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-GOLCAR Data Type: Point Name: P & R WHITWAM Easting: 408800 Northing: 414500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2000 Version End Date: -
-	1134m E	Status: Historical Licence No: 2/27/11/016 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRING - COAL MEASURES - WATER TO MILL DAM Data Type: Point Name: GEORGE COCK LTD Easting: 409200 Northing: 414100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -

ID	Location	Details	
-	1134m E	Status: Historical Licence No: 2/27/11/050 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: GEORGE COCK LTD Easting: 409200 Northing: 414100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
-	1167m E	Status: Historical Licence No: 2/27/11/016 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRING - MILLSTONE GRIT - LINTHWAITE Data Type: Point Name: GEORGE COCK LTD Easting: 409250 Northing: 414190	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/05/2001 Version End Date: -
-	1185m S	Status: Active Licence No: 2/27/11/157 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - SLAITHWAITE Data Type: Point Name: Hinchliffe Partnership LLP Easting: 408400 Northing: 413200	Annual Volume (m^3): 11600 Max Daily Volume (m^3): 31.8 Original Application No: NPS/WR/040755 Original Start Date: 02/06/1971 Expiry Date: - Issue No: 102 Version Start Date: 06/02/2024 Version End Date: -
-	1185m S	Status: Historical Licence No: 2/27/11/157 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: HINCHLIFFE Easting: 408400 Northing: 413200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 02/06/1971 Version End Date: -
-	1187m E	Status: Historical Licence No: 2/27/11/050 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - KINDERSCOUT GRIT - LINTHWAITE Data Type: Point Name: GEORGE COCK LTD Easting: 409260 Northing: 414130	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/05/2001 Version End Date: -

ID	Location	Details	
-	1445m S	Status: Historical Licence No: 2/27/11/121 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: GRAVITY Data Type: Line Name: GARSIDE Easting: 408400 Northing: 412600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1445m S	Status: Historical Licence No: 2/27/11/121 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - SLAITHWAITE Data Type: Line Name: GARSIDE Easting: 408400 Northing: 412600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1590m SW	Status: Active Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - LINGARDS LANE - SLAITHWAITE Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): 7467 Max Daily Volume (m^3): 20.46 Original Application No: 430(12) Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1590m SW	Status: Historical Licence No: 2/27/11/099 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: LINGARDS LANE SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1590m SW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: LINGARDS LANE SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -

ID	Location	Details	
-	1590m SW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - LINGARDS LANE Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1691m E	Status: Active Licence No: NE/027/0011/007 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-TITANIC MILLS-LINTHWAITE Data Type: Point Name: PROPERTY RENAISSANCE LTD Easting: 409740 Northing: 414730	Annual Volume (m^3): 43070 Max Daily Volume (m^3): 118 Original Application No: NPS/WR/005539 Original Start Date: 21/02/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 21/02/2011 Version End Date: -
-	1691m E	Status: Historical Licence No: 2/27/11/191 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-TITANIC MILLS-LINTHWAITE Data Type: Point Name: LOWRY HOMES PLC Easting: 409740 Northing: 414730	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/03/2005 Expiry Date: 31/12/2010 Issue No: 1 Version Start Date: 12/03/2005 Version End Date: -
-	1691m E	Status: Historical Licence No: 2/27/11/191 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-TITANIC MILLS-LINTHWAITE Data Type: Point Name: LOWRY HOMES PLC Easting: 409740 Northing: 414730	Annual Volume (m^3): 54000 Max Daily Volume (m^3): 150 Original Application No: - Original Start Date: 12/03/2005 Expiry Date: 31/12/2010 Issue No: 2 Version Start Date: 08/02/2008 Version End Date: -

ID	Location	Details	
-	1726m E	Status: Historical Licence No: 2/27/11/045 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - LINTHWAITE Data Type: Point Name: JAMES DYSON LTD Easting: 409800 Northing: 414600	Annual Volume (m^3): 175000 Max Daily Volume (m^3): 650 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/01/2002 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m **36**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 57 >**

ID	Location	Details	
1	440m S	Status: Historical Licence No: 2/27/11/008 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: GLOBE WORSTED CO Easting: 408100 Northing: 413900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 Version End Date: -
A	536m SW	Status: Historical Licence No: 2/27/11/146 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 407770 Northing: 413900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/06/1969 Version End Date: -

ID	Location	Details	
A	536m SW	Status: Historical Licence No: 2/27/11/146 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL - SLAITHWAITE Data Type: Point Name: BRITISH WATERWAYS Easting: 407770 Northing: 413900	Annual Volume (m^3): 45460 Max Daily Volume (m^3): 124.55 Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/06/1969 Version End Date: -
2	549m S	Status: Historical Licence No: 2/27/11/100 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Line Name: BROOK GROUP (HOLDINGS) LTD Easting: 407780 Northing: 413800	Annual Volume (m^3): 181840 Max Daily Volume (m^3): 909.2 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 26/03/2008 Version End Date: -
B	550m W	Status: Active Licence No: NE/027/0011/026 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 407536 Northing: 414207	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001055 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
B	550m W	Status: Historical Licence No: NE/027/0011/026 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 407536 Northing: 414207	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
C	601m SW	Status: Active Licence No: NE/027/0011/025 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: SLAITHWAITE RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 407515 Northing: 414116	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001049 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -

ID	Location	Details	
C	601m SW	Status: Historical Licence No: NE/027/0011/025 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: SLAITHWAITE RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 407515 Northing: 414116	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
-	685m E	Status: Historical Licence No: 2/27/11/179 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Line Name: GROSVENOR CHEMICALS LIMITED Easting: 408820 Northing: 414230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/02/1996 Expiry Date: - Issue No: 100 Version Start Date: 09/02/1996 Version End Date: -
-	685m E	Status: Historical Licence No: 2/27/11/179 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - LINTHWAITE Data Type: Line Name: GROSVENOR CHEMICALS LTD Easting: 408820 Northing: 414230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/02/1996 Expiry Date: - Issue No: 100 Version Start Date: 09/02/1996 Version End Date: -
E	720m SW	Status: Historical Licence No: 2/27/11/184 Details: General Washing/Process Washing Direct Source: SURFACE WATER Point: HUDDERSFIELD NARROW CANAL - SLAITHWAITE Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 407600 Northing: 413800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/03/2000 Expiry Date: - Issue No: 1 Version Start Date: 09/03/2000 Version End Date: -

ID	Location	Details	
-	809m E	Status: Historical Licence No: 2/27/11/011 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: COLLINS & PRESTWICH & CO LTD Easting: 408900 Northing: 414400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1118m E	Status: Historical Licence No: 2/27/11/111 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE-WESTWOOD MILLS-LINTHWAITE Data Type: Point Name: MICHAEL WILSON RESTORATIONS Easting: 409200 Northing: 414500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 10/12/2002 Version End Date: -
-	1146m W	Status: Active Licence No: NE/027/0011/026 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 406920 Northing: 414330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001055 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
-	1146m W	Status: Historical Licence No: NE/027/0011/026 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 406920 Northing: 414330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -

ID	Location	Details	
-	1167m W	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water power other than electricity generation Direct Source: SURFACE WATER Point: SPRING - NEAR MILL DAM Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406900 Northing: 414400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1167m W	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: SPRING - NEAR MILL DAM Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406900 Northing: 414400	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1354m E	Status: Historical Licence No: 2/27/11/013 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: SURFACE WATER Point: SPRING-LINTHWAITE-HUDDERSFIELD Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409400 Northing: 414700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 16/07/2002 Version End Date: -
-	1467m W	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: MERRYDALE CLOUGH Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406600 Northing: 414300	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -

ID	Location	Details	
-	1467m W	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: BARRETT CLOUGH AND SPRING TO DAM Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406600 Northing: 414300	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1467m W	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: MERRYDALE CLOUGH - SLAITHWAITE Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406600 Northing: 414300	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1490m N	Status: Historical Licence No: NE/027/0011/015 Details: Hydroelectric Power Generation Direct Source: SURFACE WATER Point: CRIMBLE CLOUGH AT WALLER CLOUGH, HUDDERSFIELD Data Type: Point Name: Garside Easting: 407625 Northing: 415781	Annual Volume (m^3): 145152 Max Daily Volume (m^3): 484 Original Application No: - Original Start Date: 18/07/2013 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 18/07/2013 Version End Date: -
-	1528m E	Status: Active Licence No: 2/27/11/013(A) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE-LINTHWAITE Data Type: Point Name: PROPERTY RENAISSANCE LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): 9092 Max Daily Volume (m^3): 45.45 Original Application No: 1622(A) Original Start Date: 16/07/2002 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1528m E	Status: Historical Licence No: 2/27/11/013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1528m E	Status: Historical Licence No: 2/27/11/013 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1528m E	Status: Historical Licence No: 2/27/11/013 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: SURFACE WATER Point: RIVER COLNE-LINTHWAITE Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1528m E	Status: Historical Licence No: 2/27/11/013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE-LINTHWAITE Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -

ID	Location	Details	
-	1603m W	Status: Historical Licence No: 2/27/11/089 Details: General Farming & Domestic Direct Source: SURFACE WATER Point: SPRINGS Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 406500 Northing: 414700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1614m E	Status: Historical Licence No: 2/27/11/111 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: MICKMAN Easting: 409700 Northing: 414500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1991 Version End Date: -
-	1614m E	Status: Historical Licence No: 2/27/11/111 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - LINTHWAITE Data Type: Point Name: MICKMAN Easting: 409700 Northing: 414500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1991 Version End Date: -
-	1691m NW	Status: Active Licence No: 2/27/11/064 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406600 Northing: 415200	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -

ID	Location	Details	
-	1691m NW	Status: Active Licence No: 2/27/11/064 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406600 Northing: 415200	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1778m NW	Status: Active Licence No: 2/27/11/064 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406500 Northing: 415200	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1778m NW	Status: Active Licence No: 2/27/11/064 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406500 Northing: 415200	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1916m NW	Status: Active Licence No: 2/27/11/064 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406300 Northing: 415100	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -

ID	Location	Details	
-	1916m NW	Status: Active Licence No: 2/27/11/064 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406300 Northing: 415100	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**10**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 57 >**

ID	Location	Details	
-	809m E	Status: Historical Licence No: 2/27/11/011 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: COLLINS & PRESTWICH & CO LTD Easting: 408900 Northing: 414400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1354m E	Status: Historical Licence No: 2/27/11/013 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: SURFACE WATER Point: SPRING-LINTHWAITE-HUDDERSFIELD Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409400 Northing: 414700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 16/07/2002 Version End Date: -

ID	Location	Details	
-	1528m E	Status: Historical Licence No: 2/27/11/013 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1528m E	Status: Historical Licence No: 2/27/11/013 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: SURFACE WATER Point: RIVER COLNE-LINTHWAITE Data Type: Point Name: COLNE VALLEY SPINNING CO LTD Easting: 409600 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1691m E	Status: Active Licence No: NE/027/0011/007 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-TITANIC MILLS-LINTHWAITE Data Type: Point Name: PROPERTY RENAISSANCE LTD Easting: 409740 Northing: 414730	Annual Volume (m^3): 43070 Max Daily Volume (m^3): 118 Original Application No: NPS/WR/005539 Original Start Date: 21/02/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 21/02/2011 Version End Date: -
-	1691m E	Status: Historical Licence No: 2/27/11/191 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-TITANIC MILLS-LINTHWAITE Data Type: Point Name: LOWRY HOMES PLC Easting: 409740 Northing: 414730	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/03/2005 Expiry Date: 31/12/2010 Issue No: 1 Version Start Date: 12/03/2005 Version End Date: -

ID	Location	Details	
-	1691m E	Status: Historical Licence No: 2/27/11/191 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-TITANIC MILLS-LINTHWAITE Data Type: Point Name: LOWRY HOMES PLC Easting: 409740 Northing: 414730	Annual Volume (m^3): 54000 Max Daily Volume (m^3): 150 Original Application No: - Original Start Date: 12/03/2005 Expiry Date: 31/12/2010 Issue No: 2 Version Start Date: 08/02/2008 Version End Date: -
-	1691m NW	Status: Active Licence No: 2/27/11/064 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406600 Northing: 415200	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1778m NW	Status: Active Licence No: 2/27/11/064 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406500 Northing: 415200	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1916m NW	Status: Active Licence No: 2/27/11/064 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SCAMMONDEN INTAKES AND CATCHWATER IN COLNE S/C Data Type: Point Name: Yorkshire Water Services Ltd Easting: 406300 Northing: 415100	Annual Volume (m^3): 5840000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037306 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

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

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

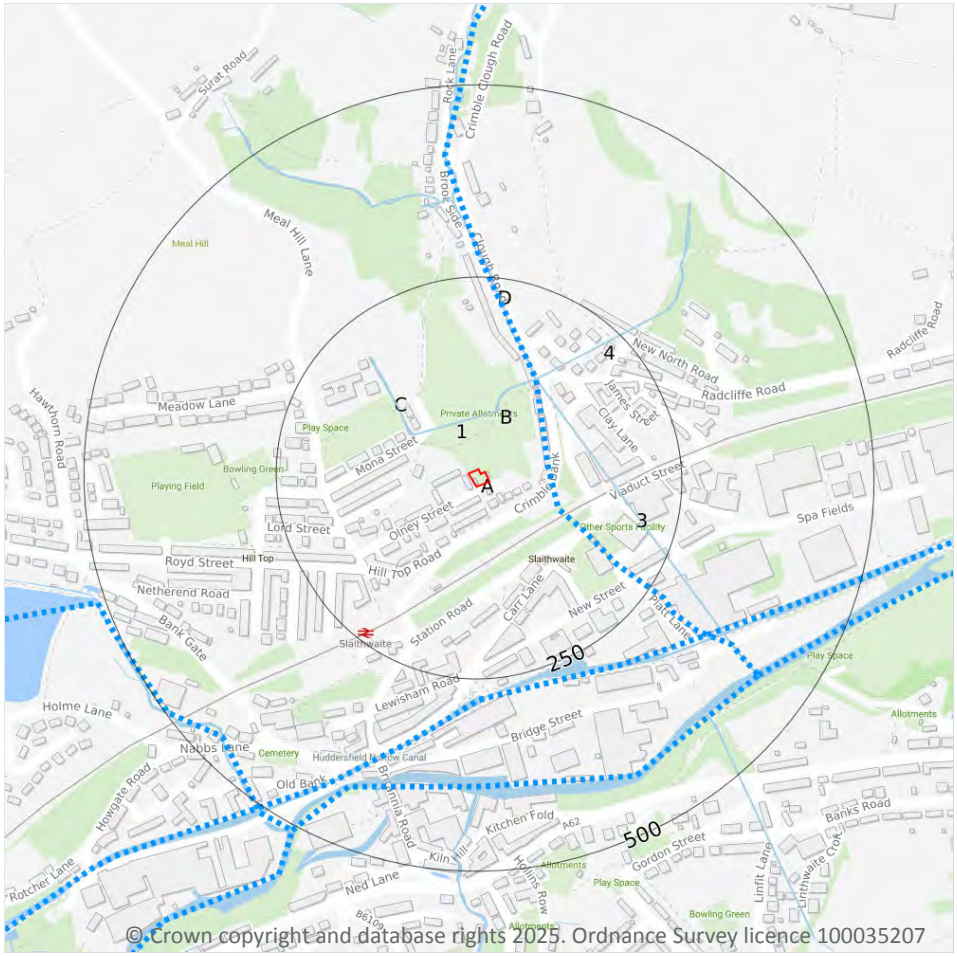
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m	9

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 75 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	66m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
B	77m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	87m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	88m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	97m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	112m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
3	125m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
4	137m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	137m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**5**

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

Features are displayed on the Hydrology map on **page 75 >**

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 75 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Colne from Wessenden Brook to R Holme**	**GB104027063330**	**Colne and Holme**	**Aire and Calder**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 75 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	79m E	River	Colne from Wessenden Brook to R Holme	GB104027063330 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 75 >**

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

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding

8.1 Surface water flooding

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

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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding

9.1 Groundwater flooding

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

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

Features are displayed on the Groundwater flooding map on **page 83 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	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 84 >**

ID	Location	Name	Local Authority name
1	201m 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.

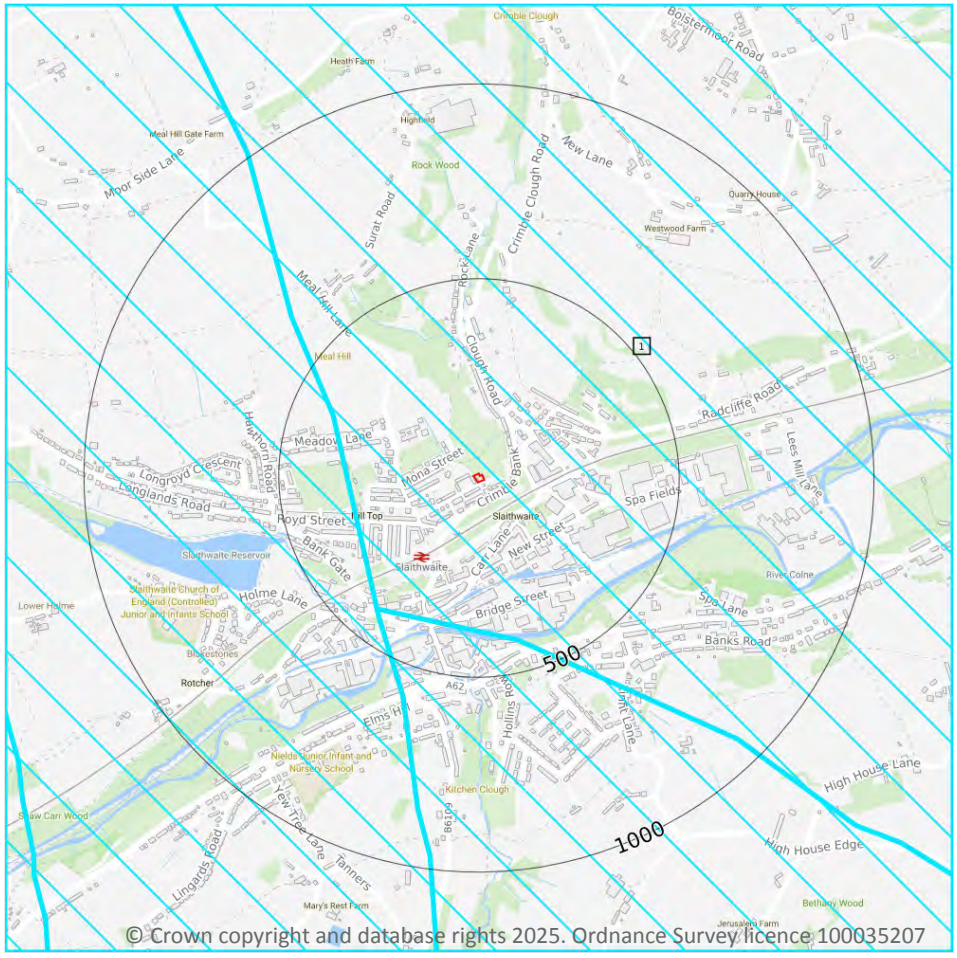
10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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

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

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 89 >**

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

This data is sourced from Natural England.

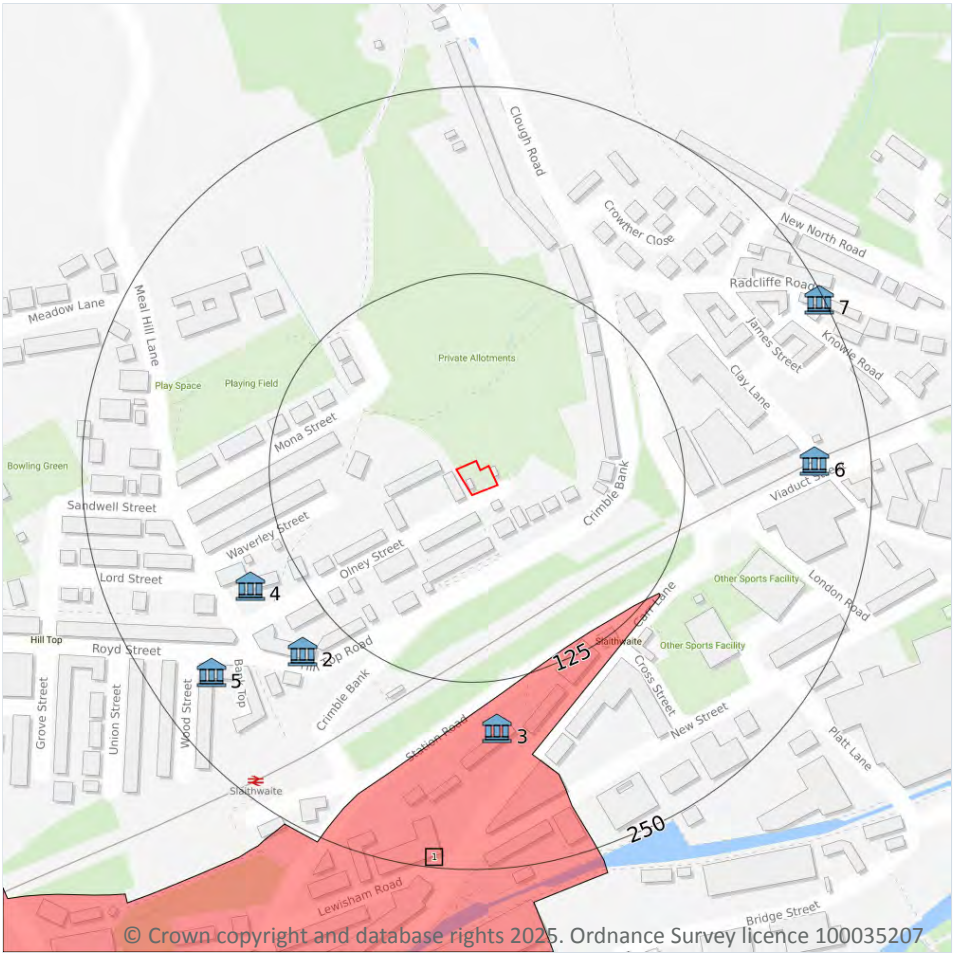
10.18 SSSI Units

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



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	6

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 91 >**

ID	Location	Name	Grade	Reference Number	Listed date
2	154m SW	13-19, Hill Top Road	II	1276158	11/07/1985
3	156m S	46 Carr Lane	II	1277442	11/07/1985
4	158m SW	16 Hill Top Fold	II	1234137	11/07/1985
5	211m SW	8, Royd Street	II	1267172	11/07/1985
6	212m E	Crimble Viaduct	II	1233737	11/07/1985
7	247m NE	315 And 317, Radcliffe Road	II	1222521	11/07/1985

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

11.5 Conservation Areas

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 91 >**

ID	Location	Name	District	Date of designation
1	116m SE	Slaithwaite	Kirklees	01/08/1980

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.

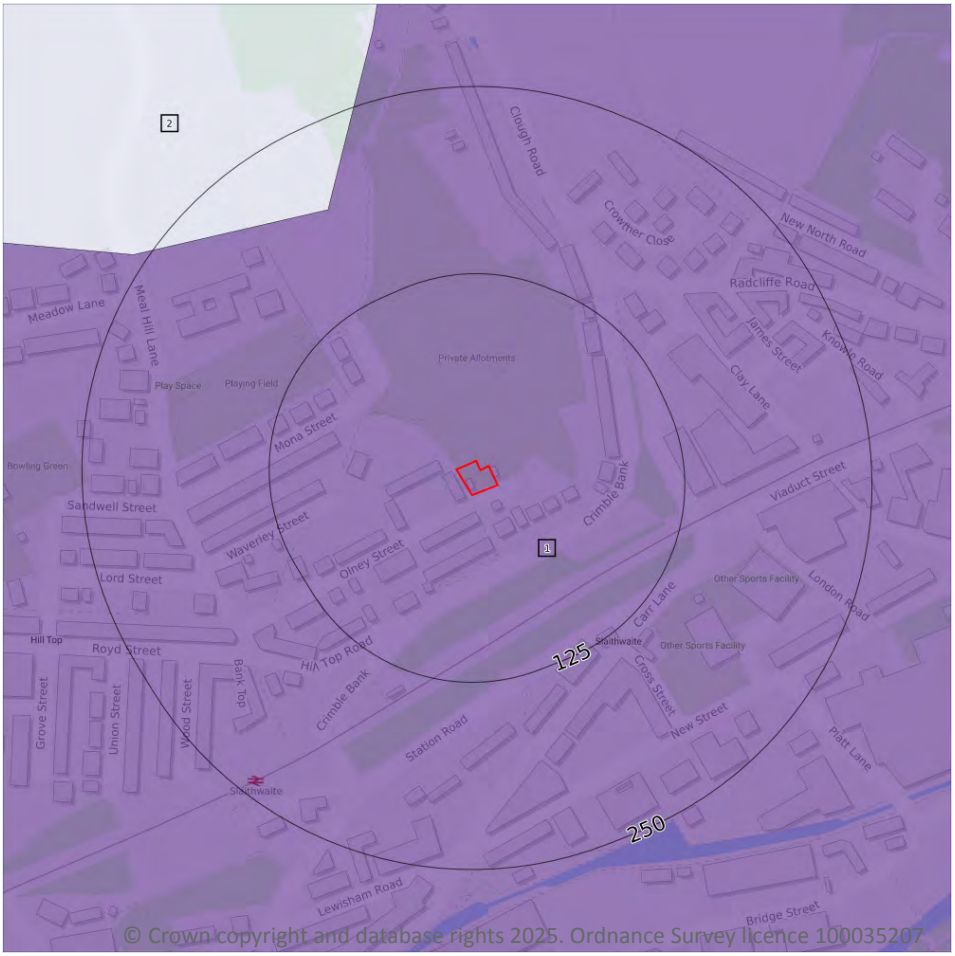
11.7 Registered Parks and Gardens

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	2

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 94 >**

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

ID	Location	Classification	Description
2	193m NW	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

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	1

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

Location	Reference	Scheme	Start Date	End date
200m NW	AG00445183	Entry Level plus Higher Level Stewardship	01/08/2013	31/07/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

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	1

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 97 >**

ID	Location	Main Habitat	Other habitats
1	246m SW	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.

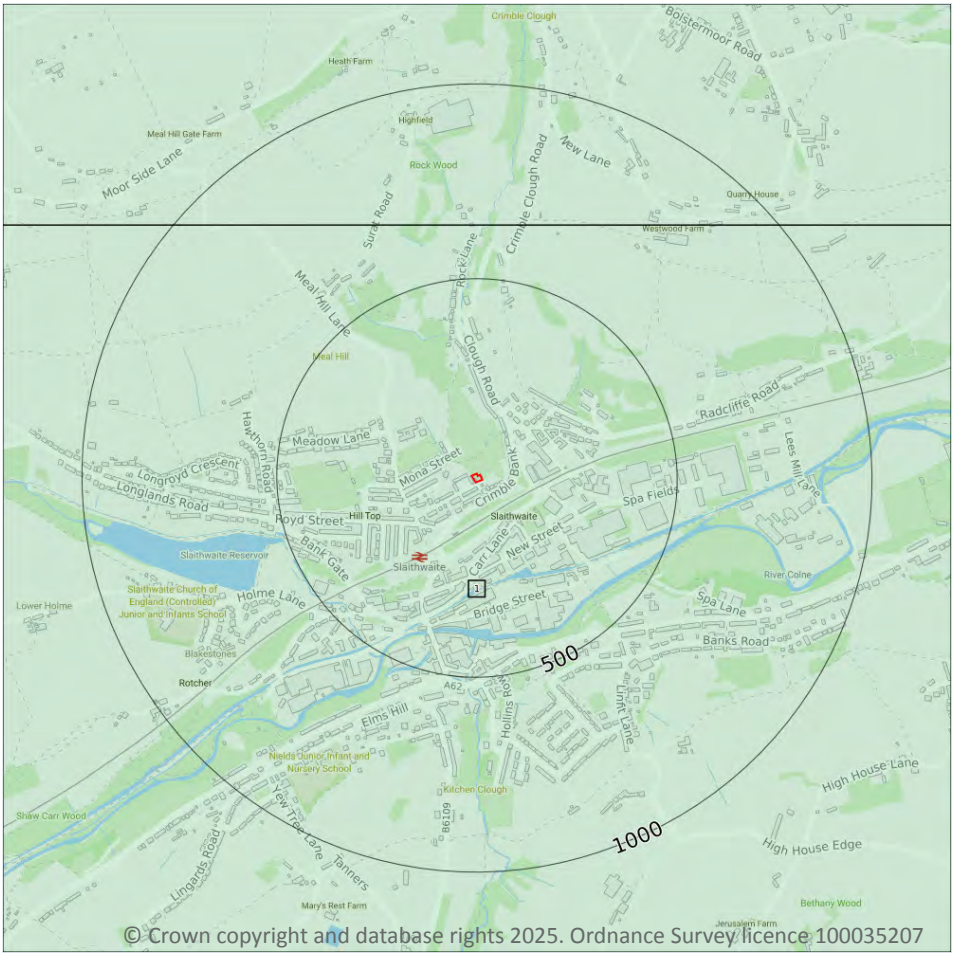
13.4 Limestone Pavement Orders

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	1

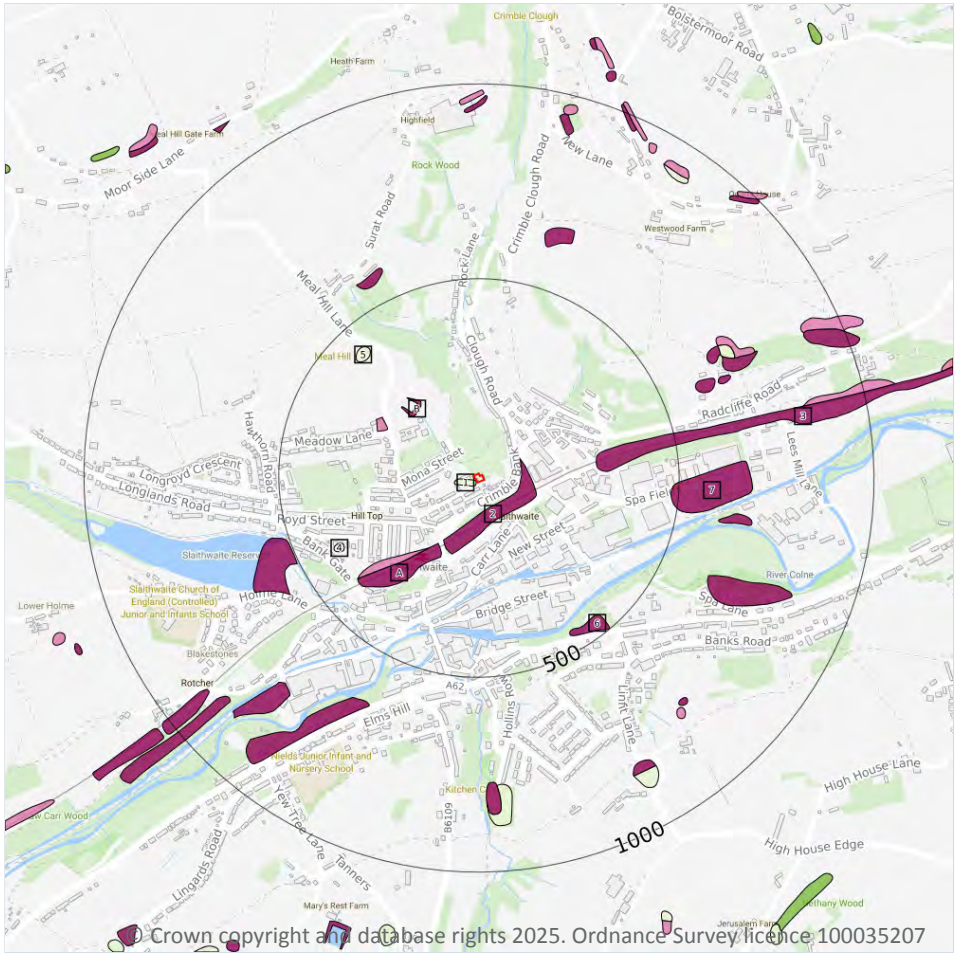
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 99 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE01SE**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m	11

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.

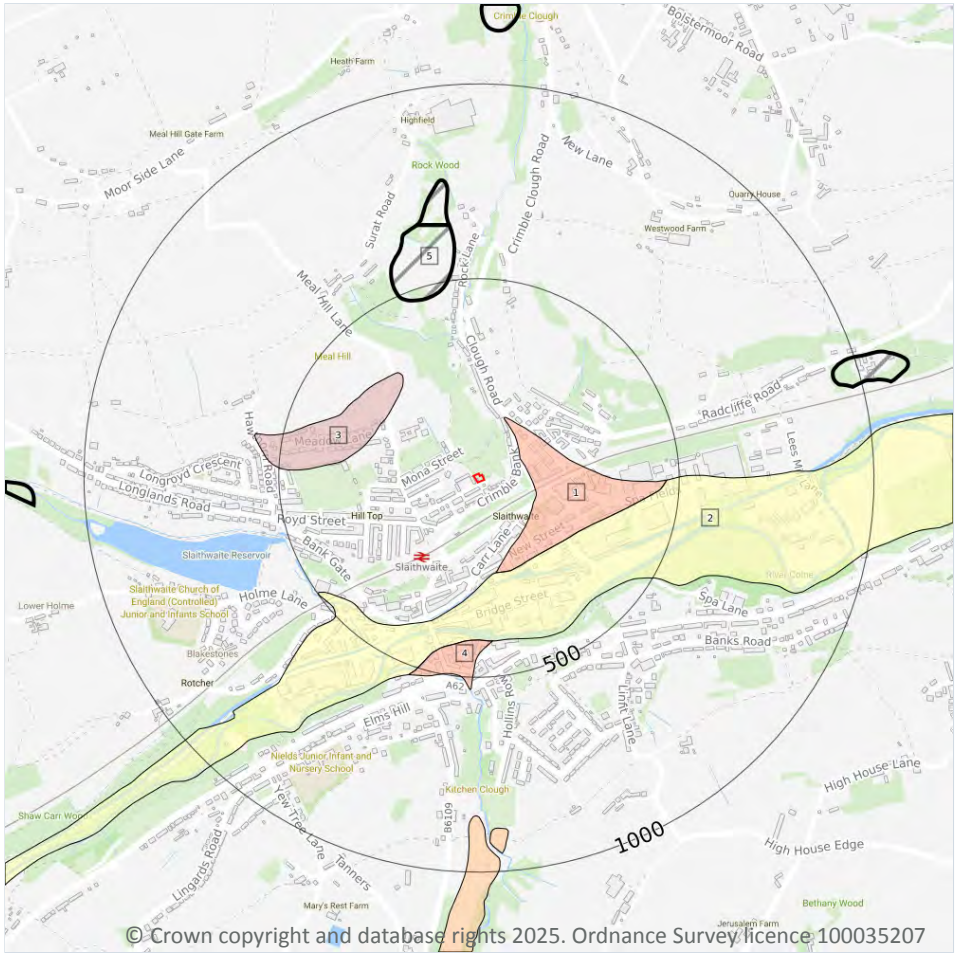
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 100 >**

ID	Location	LEX Code	Description	Rock description
1	2m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	69m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	187m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	209m SW	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
B	216m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	251m NW	WGR-VOID	Worked Ground (Undivided)	Void
3	290m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	377m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	405m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	445m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	480m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m **4**

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 102 >**

ID	Location	LEX Code	Description	Rock description
1	106m NE	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
2	236m SE	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel
3	269m NW	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	404m S	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**1**

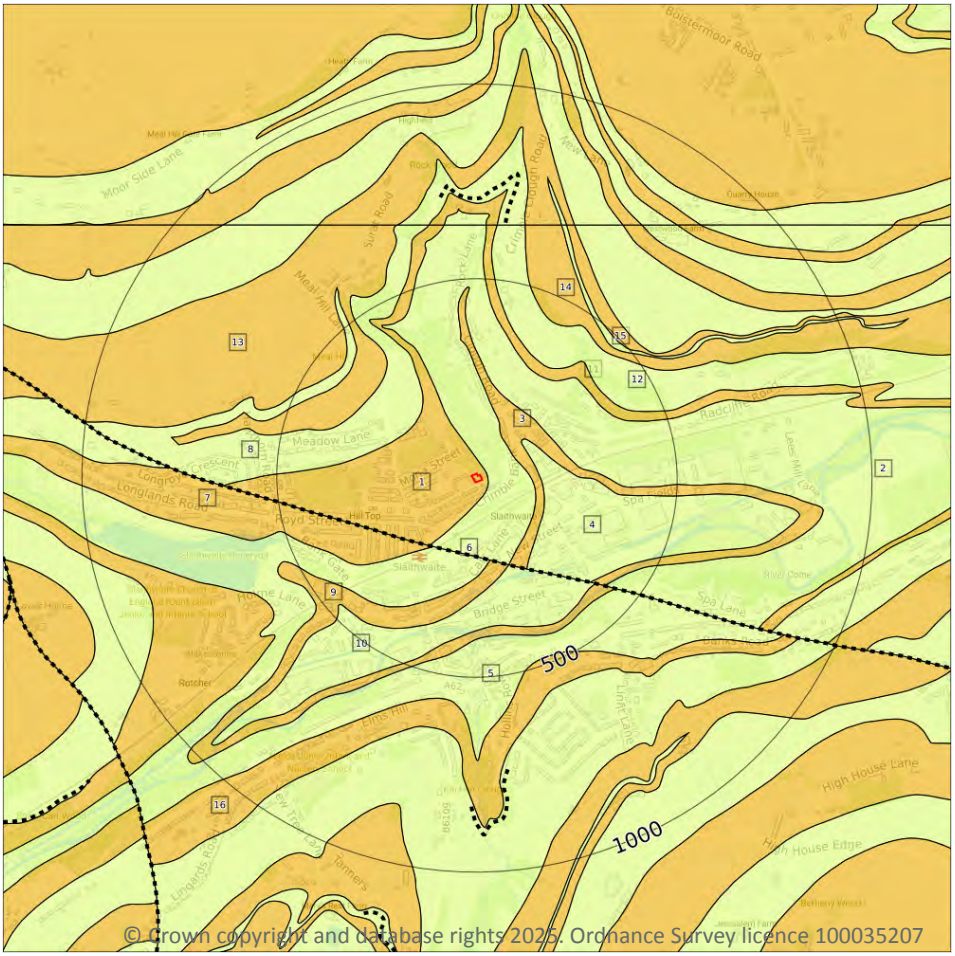
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 102 >**

ID	Location	LEX Code	Description	Rock description
5	469m N	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	15

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 104 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**EC-SDST**	**East Carlton Grit - Sandstone**	**Marsdenian Sub-age**
2	15m E	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
3	98m NE	RDG-SDST	Readycon Dean Flags - Sandstone	Marsdenian Sub-age

ID	Location	LEX Code	Description	Rock age
4	133m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
5	185m S	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
7	197m SW	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age
8	198m NW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
9	203m S	RDG-SDST	Readycon Dean Flags - Sandstone	Marsdenian Sub-age
10	228m S	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
11	297m NE	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age
12	326m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
13	329m NW	MGG-SDST	Midgley Grit - Sandstone	Marsdenian Sub-age
14	434m NE	MGG-SDST	Midgley Grit - Sandstone	Marsdenian Sub-age
15	472m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
16	483m S	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **1**

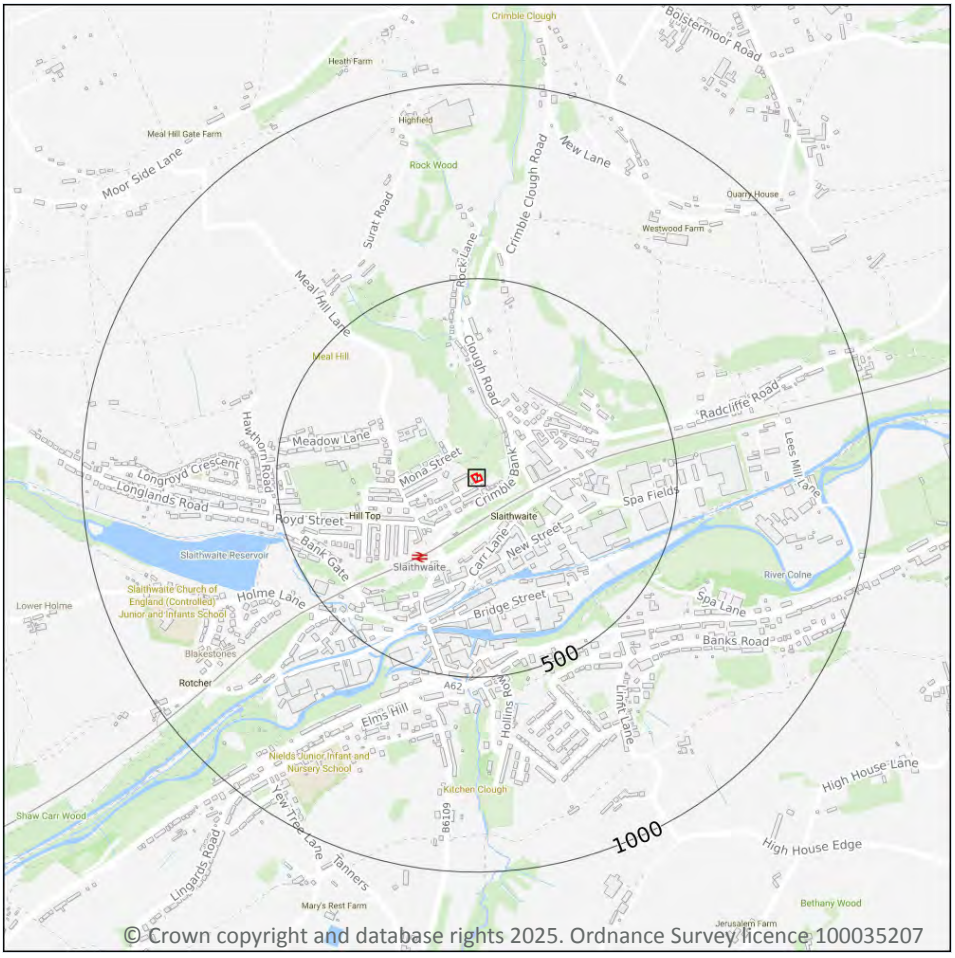
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

ID	Location	Category	Description
6	185m S	FAULT	Normal fault, inferred; crossmarks on downthrow side

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

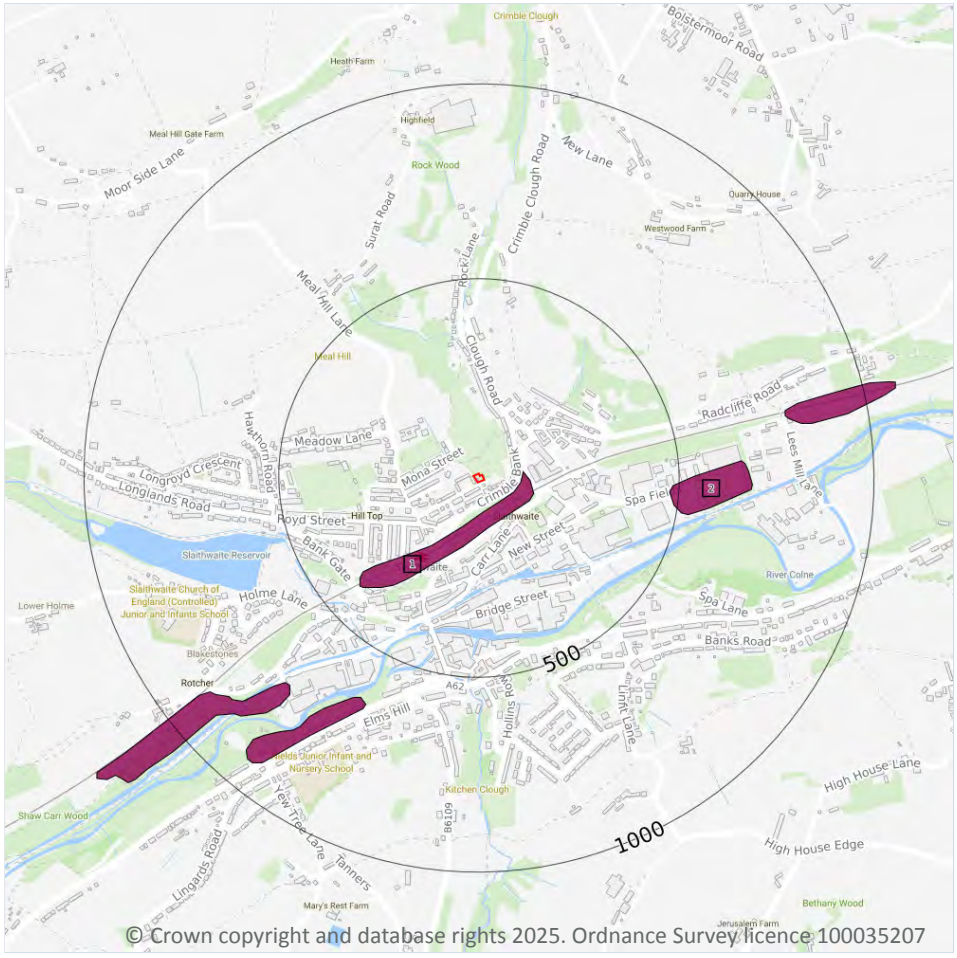
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 106 >**

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	2

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 107 >**

ID	Location	LEX Code	Description	Rock description
1	68m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	477m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

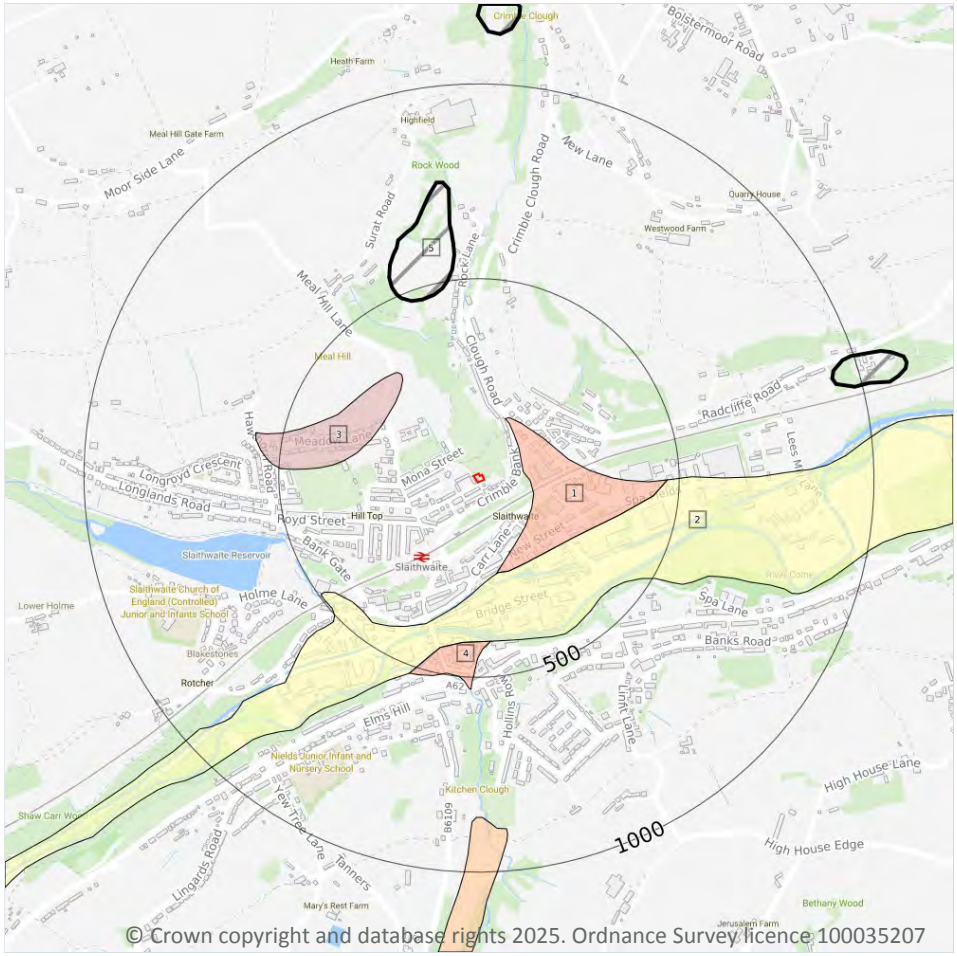
15.3 Artificial ground permeability (50k)

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 **4**

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 109 >**

ID	Location	LEX Code	Description	Rock description
1	102m E	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
2	237m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	269m NW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	409m S	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial 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 superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	1

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 109 >**

ID	Location	LEX Code	Description	Rock description
5	469m N	SLIP-UKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

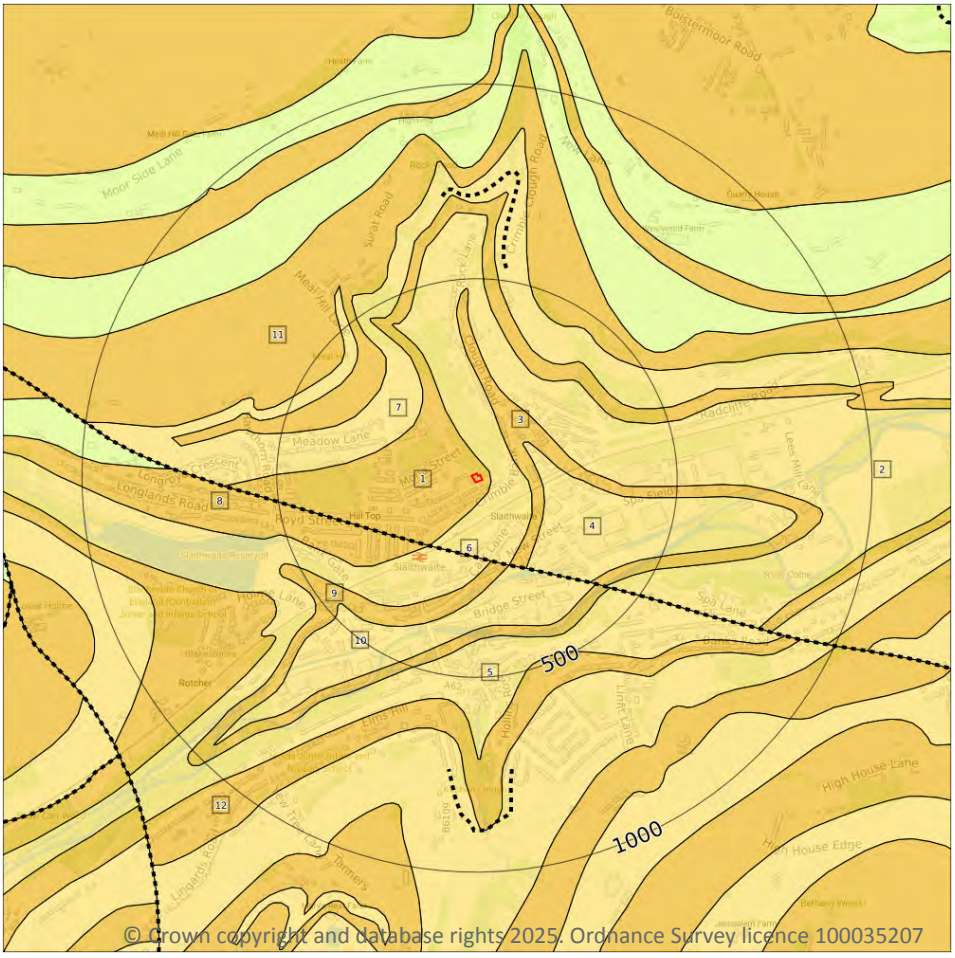
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m **11**

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 111 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**EC-SDST**	**EAST CARLTON GRIT - SANDSTONE**	**NAMURIAN**
2	22m E	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
3	94m NE	RDG-SDST	READYCON DEAN FLAGS - SANDSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
4	135m NE	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
5	186m S	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
7	197m NW	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
8	202m SW	EC-SDST	EAST CARLTON GRIT - SANDSTONE	NAMURIAN
9	205m S	RDG-SDST	READYCON DEAN FLAGS - SANDSTONE	NAMURIAN
10	229m S	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
11	322m NW	MGG-SDST	MIDGLEY GRIT - SANDSTONE	NAMURIAN
12	483m S	EC-SDST	EAST CARLTON GRIT - SANDSTONE	NAMURIAN

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**	**High**	**Moderate**
22m E	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **1**

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 111 >**

ID	Location	Category	Description
6	186m S	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	2

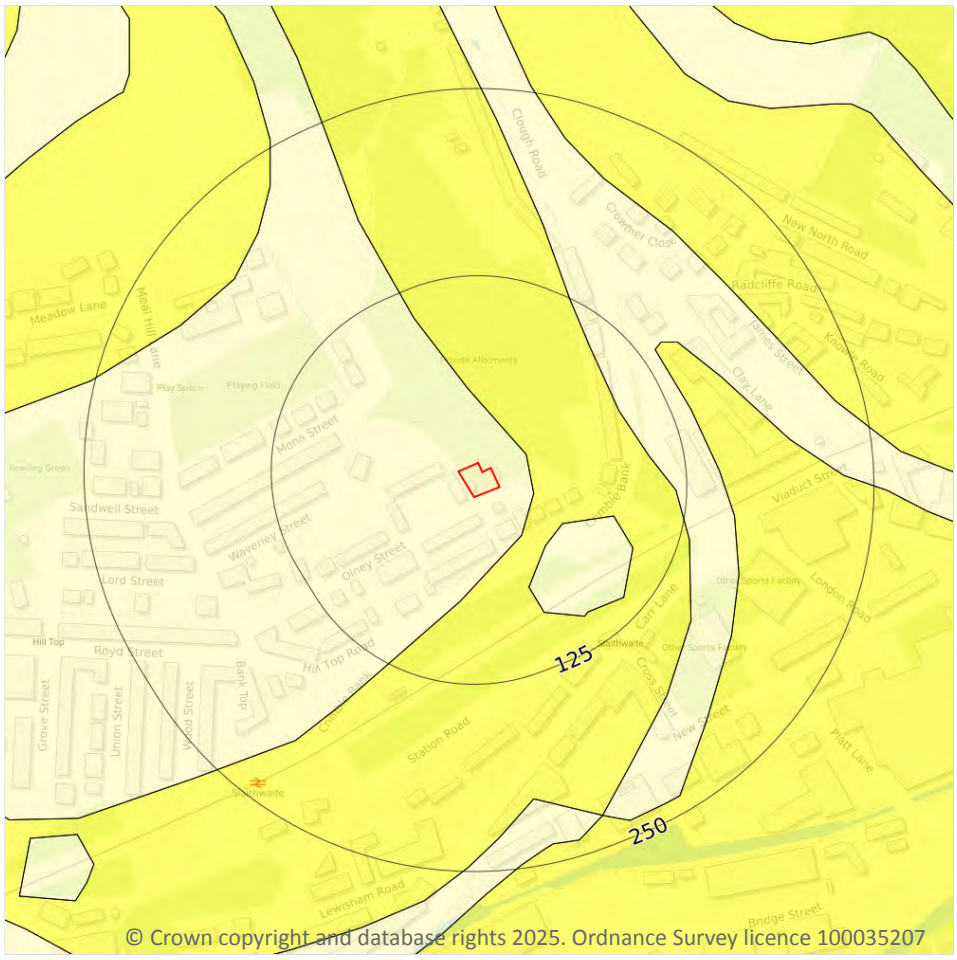
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 114 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	219m NE	408210 414540	UPPER MILL	112.0	N	36909 ↗
A	235m NE	408224 414550	CUMBLE MILLS SLAITHWAITE HUDDERSFIELD	97.61	N	36908 ↗

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	3

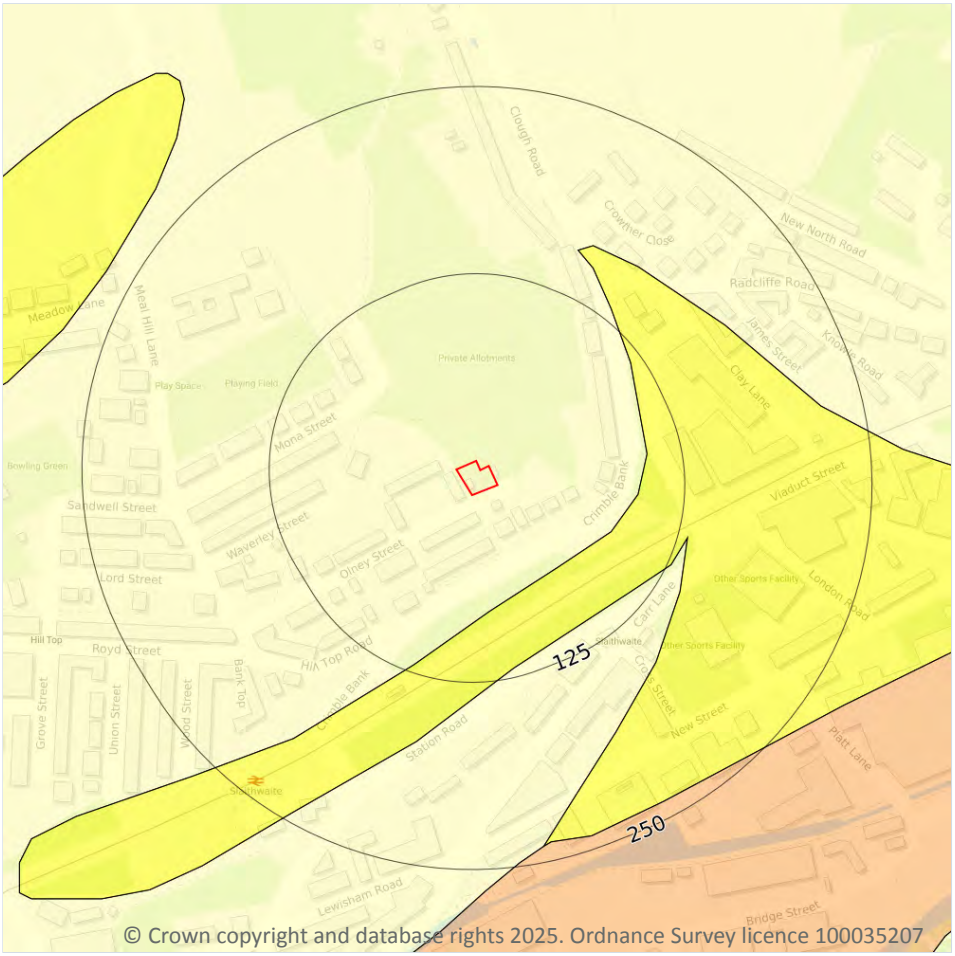
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 115 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
22m E	Very low	Ground conditions predominantly low plasticity.
48m SE	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	1

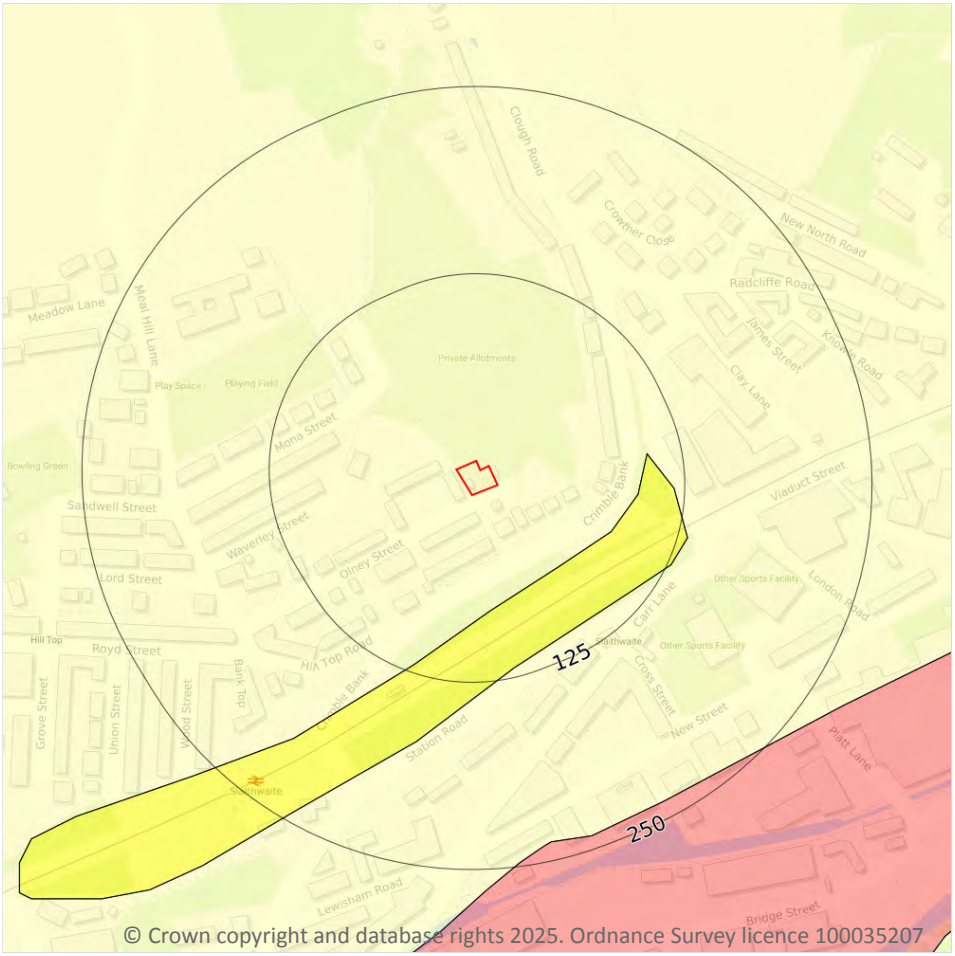
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 117 >**

Location	Hazard rating	Details
On site	**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



17.3 Compressible deposits

Records within 50m	1

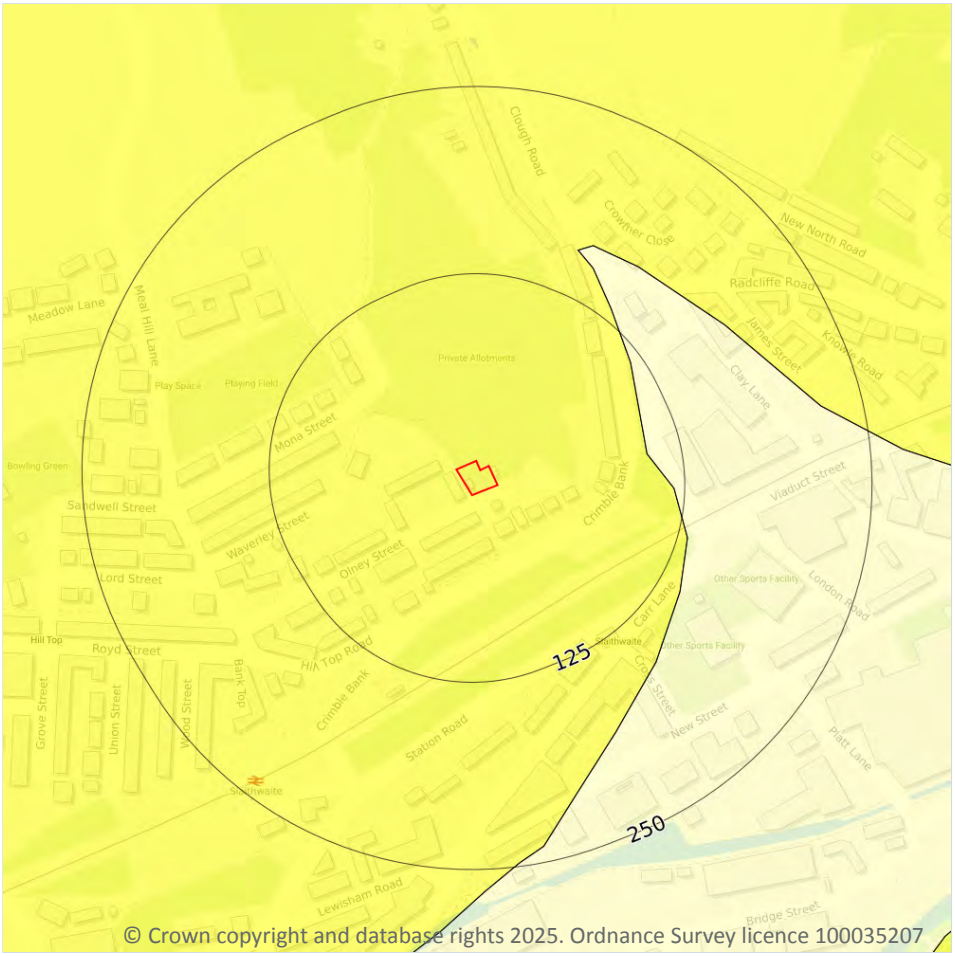
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 118 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m	1

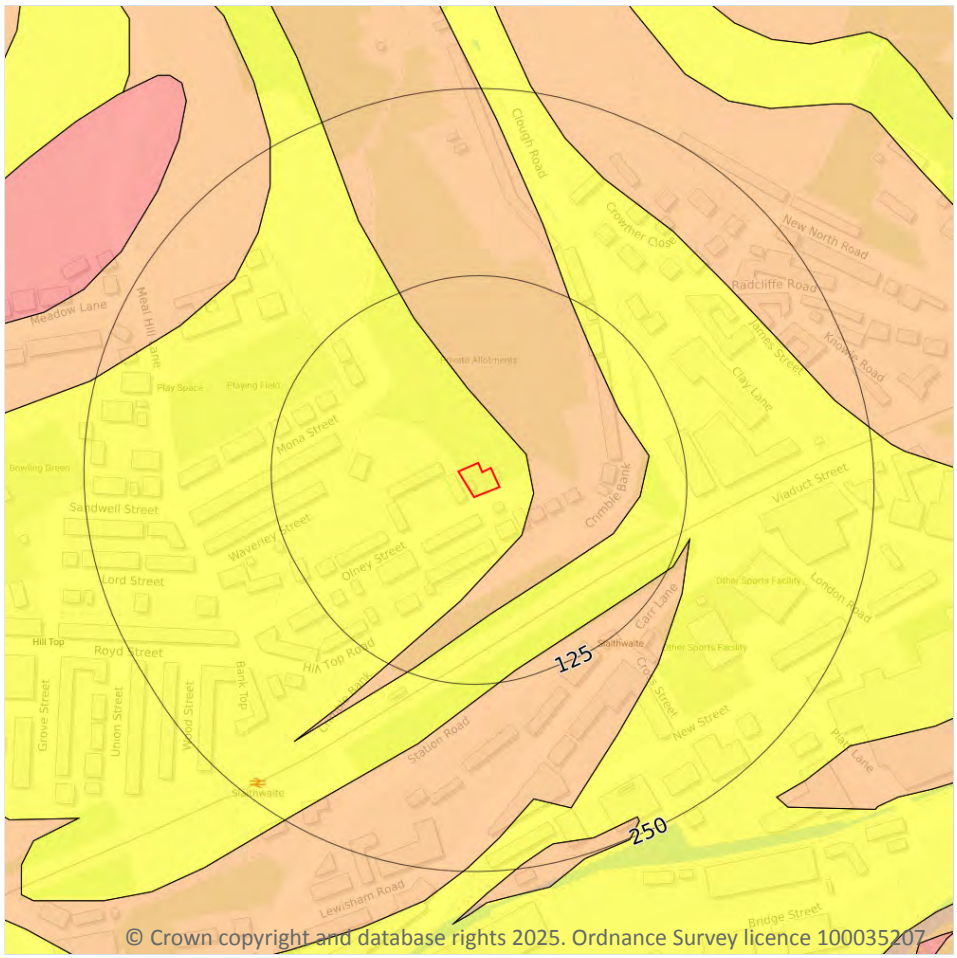
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 119 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m	2

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.

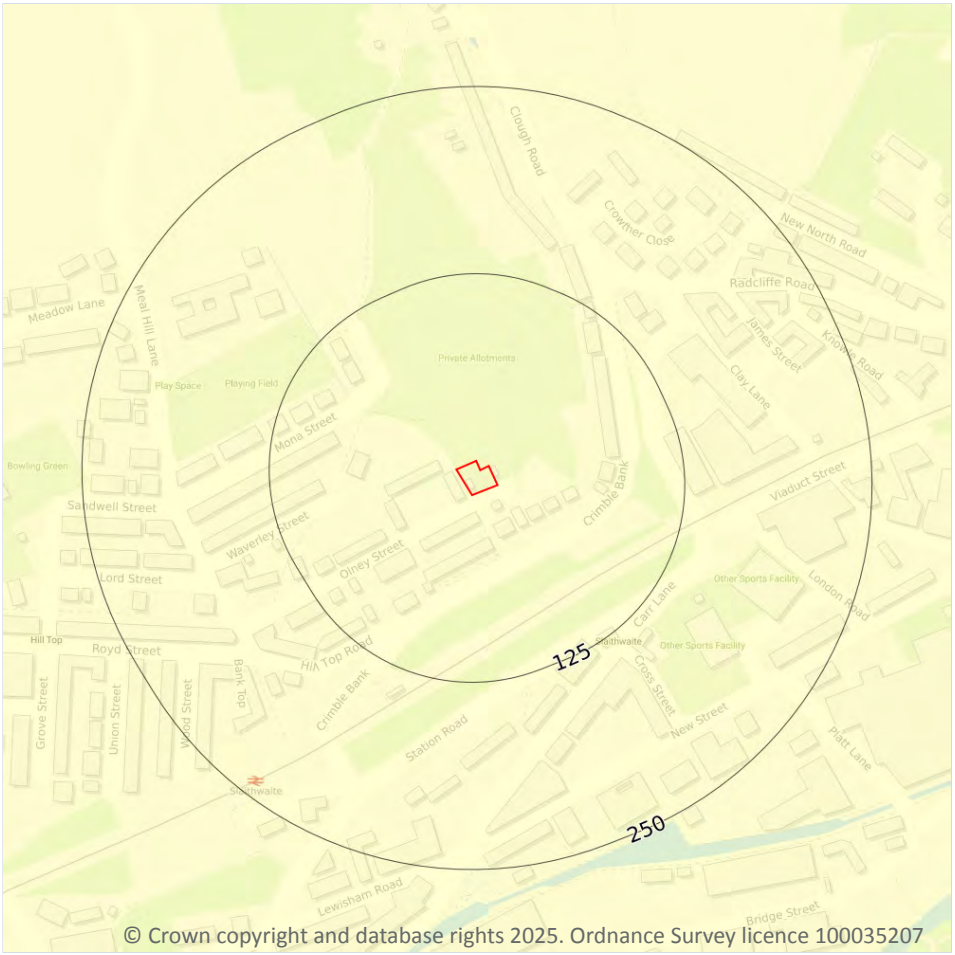
Features are displayed on the Natural ground subsidence - Landslides map on **page 120 >**

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.**

Location	Hazard rating	Details
22m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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

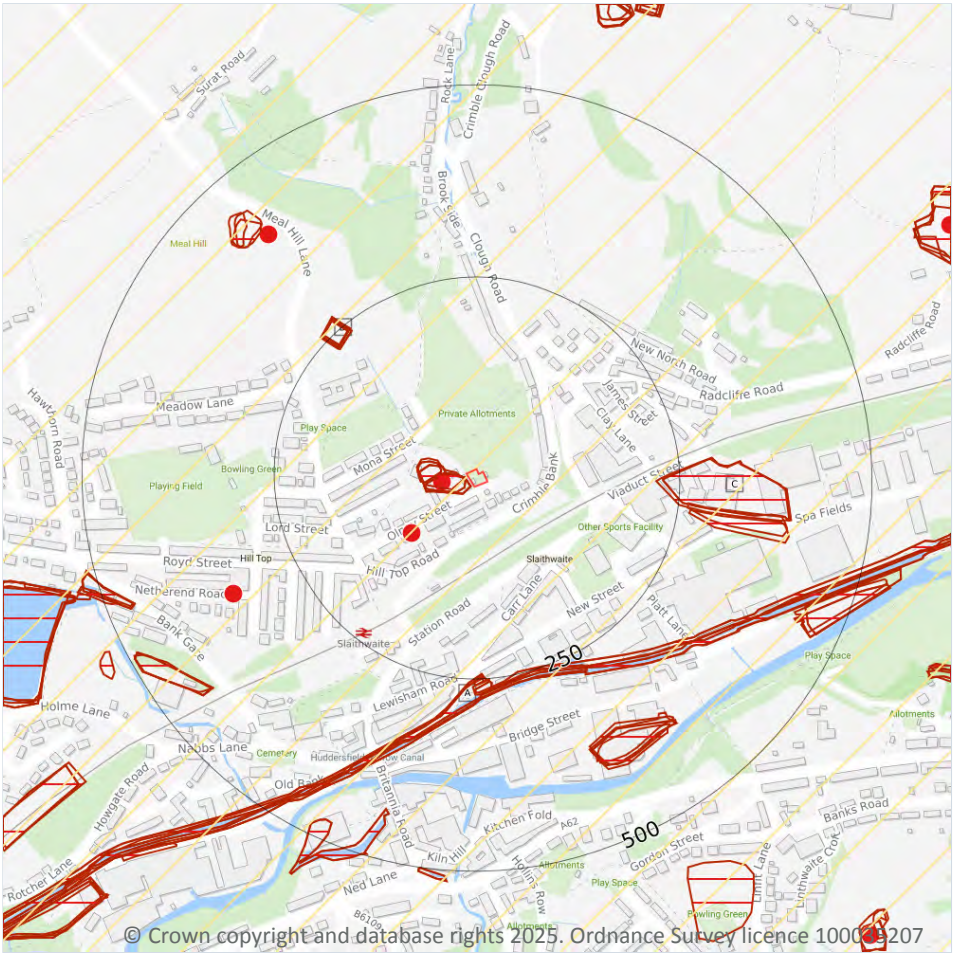
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 122 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



18.1 BritPits

Records within 500m	4

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 124 >**

ID	Location	Details	Description
B	33m W	Name: Grimble Bank Address: Grimble Bank, Hill Top, Slaithwaite, HUDDERSFIELD, 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.
1	102m SW	Name: Hill Top Address: Hill Top, Slaithwaite, HUDDERSFIELD, 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.
2	340m SW	Name: Hill Top Address: Hill Top, Slaithwaite, HUDDERSFIELD, 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.
H	404m NW	Name: Meal Hill Address: Meal Hill Lane, Slaithwaite, HUDDERSFIELD, 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	23

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 124 >**

ID	Location	Land Use	Year of mapping	Mapping scale
B	4m SW	Unspecified Quarry	1904	1:10560
B	4m SW	Unspecified Quarry	1890	1:10560
B	4m SW	Unspecified Ground Workings	1948	1:10560
B	6m W	Unspecified Ground Workings	1930	1:10560
B	6m W	Unspecified Ground Workings	1930	1:10560
B	6m W	Unspecified Pits	1955	1:10560
B	33m W	Refuse Heap	1930	1:10560
B	33m W	Refuse Heap	1930	1:10560
C	219m E	Sewage Works	1948	1:10560
C	229m E	Sewage Works	1930	1:10560
C	229m E	Sewage Works	1930	1:10560
D	231m NW	Reservoir	1904	1:10560
D	231m NW	Pond	1890	1:10560
D	233m NW	Reservoir	1948	1:10560
D	235m NW	Reservoir	1930	1:10560
D	235m NW	Reservoir	1978	1:10000
D	235m NW	Reservoir	1955	1:10560
A	244m S	Disused Canal	1978	1:10000
A	244m S	Disused Canal	1955	1:10560
E	247m S	Canal	1948	1:10560
E	247m S	Canal	1904	1:10560
E	247m S	Canal	1890	1:10560
E	248m S	Canal	1930	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	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	2

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

Features are displayed on the Mining and ground workings map on **page 124 >**

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

ID	Location	Name	Commodity	Class	Likelihood
-	638m N	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	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	1

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

Features are displayed on the Radon map on **page 133 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **2**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 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 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
22m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per 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	8

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 136 >**

Location	Land Use	Year of mapping	Mapping scale
63m SE	Railway Sidings	1955	10560
68m SE	Railway Sidings	1930	10560
90m SE	Railway Sidings	1948	10560
90m SE	Railway Sidings	1904	10560
90m SE	Railway Sidings	1890	10560
92m SE	Railway Sidings	1906	2500
92m SE	Railway Sidings	1932	2500
97m SE	Railway Sidings	1892	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	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	14

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

Features are displayed on the Railway infrastructure and projects map on **page 136 >**

Location	Name	Type
86m SE	Huddersfield Line	rail
87m SE	Not given	Multi Track
90m SE	Huddersfield Line	rail
90m SE	Not given	Multi Track
91m SE	Not given	Multi Track
92m S	Not given	Multi Track
98m S	Not given	Multi Track
119m E	Huddersfield Line	rail
121m E	Not given	Multi Track
121m E	Huddersfield Line	rail
200m SW	Not given	Multi Track
209m SW	Not given	Multi Track
213m SW	Not given	Multi Track
243m SW	Not given	Multi Track

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.

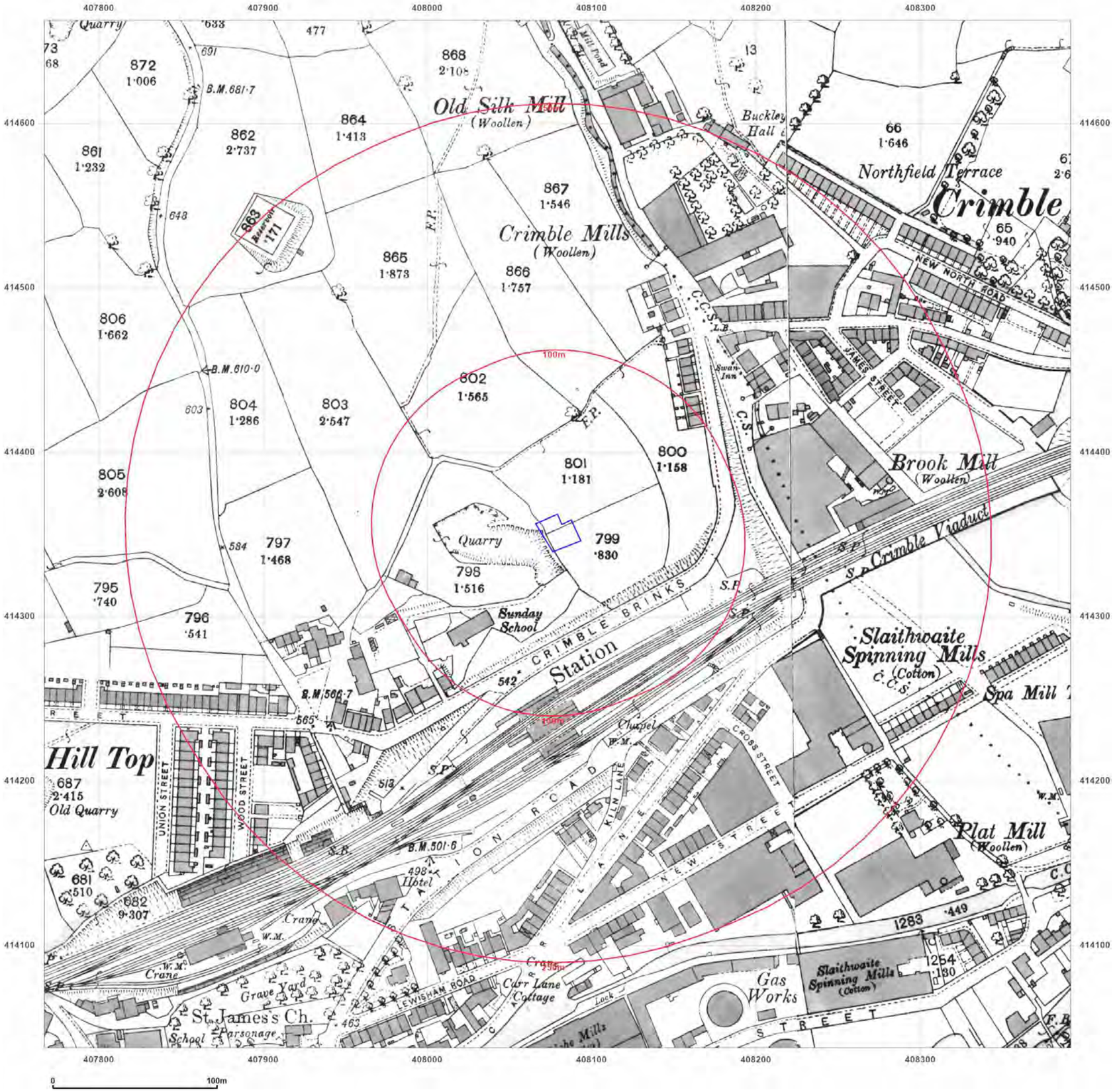
Data providers

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 ↗.

Terms and conditions

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

Appendix 4: Historical Map Selection



Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

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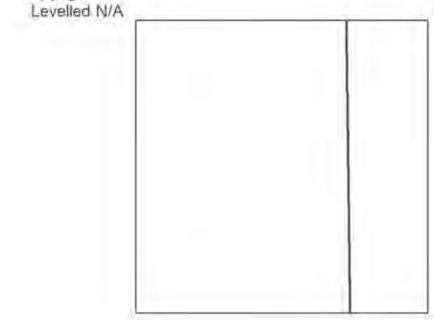
Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



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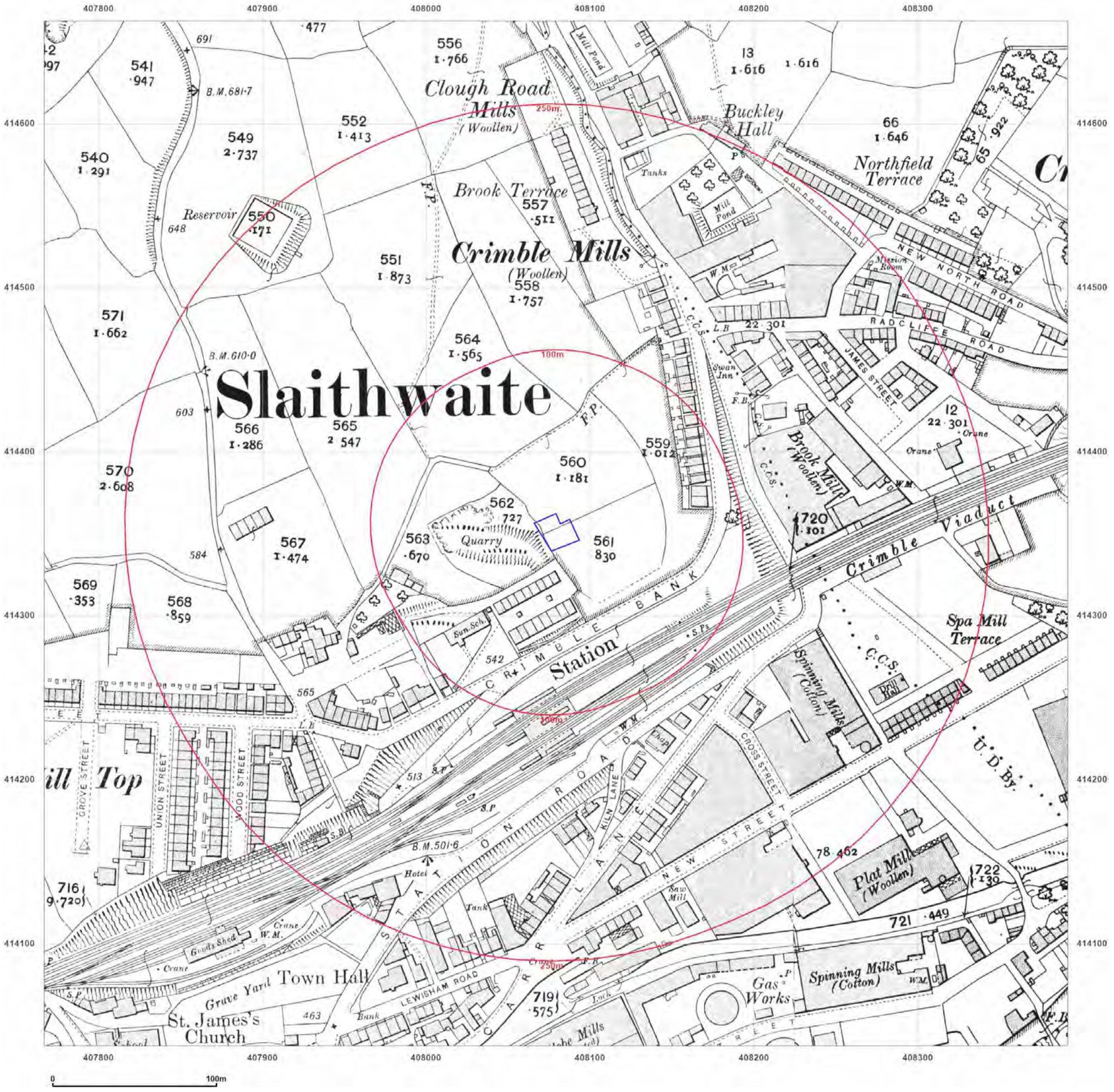
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 16 May 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

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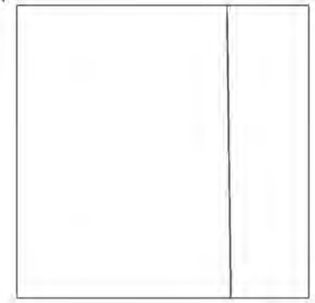
Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

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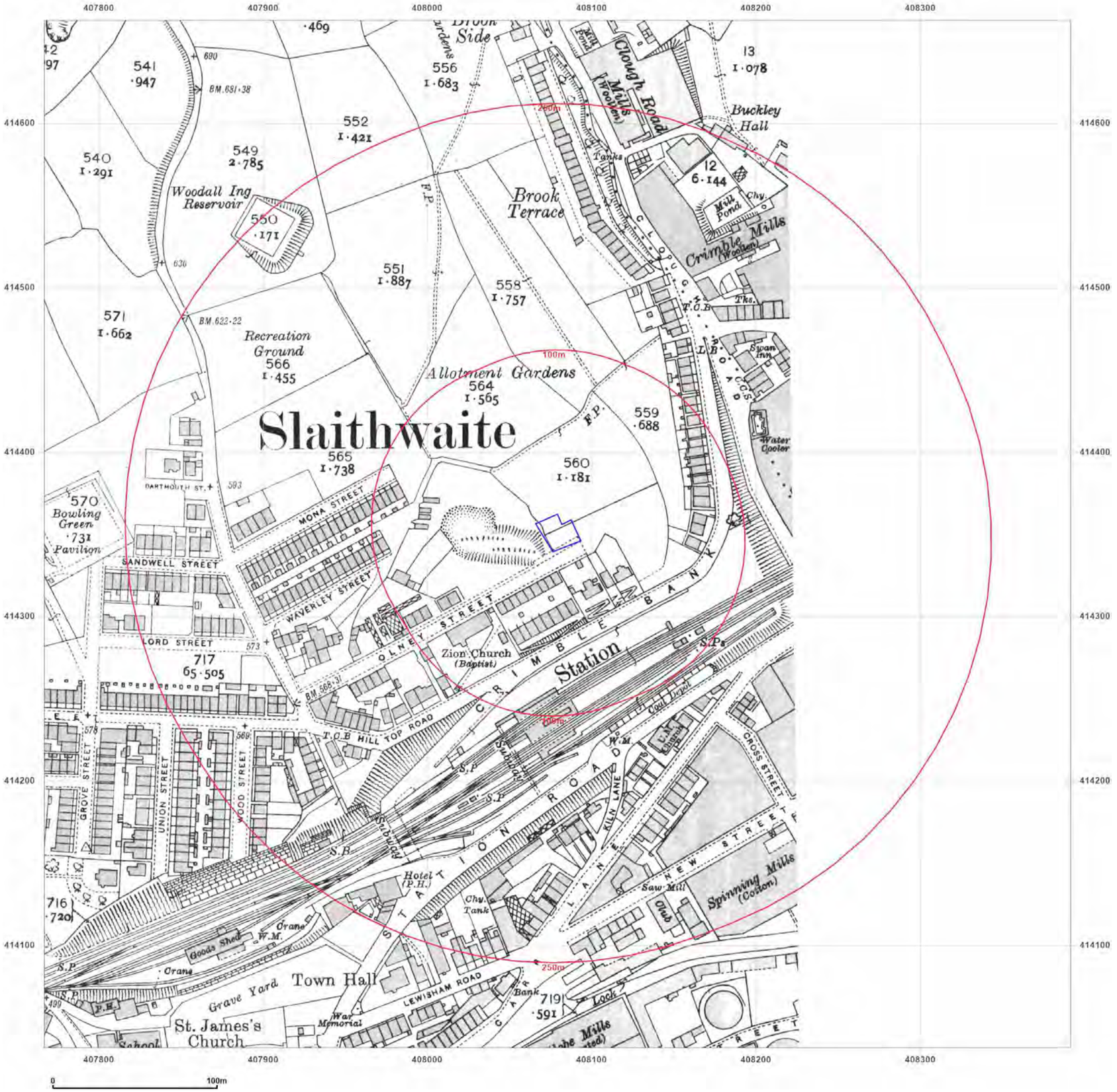
W: www.groundsure.com

Production date: 16 May 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: County Series
Map date: **1932**
Scale: 1:2,500
Printed at: 1:2,500

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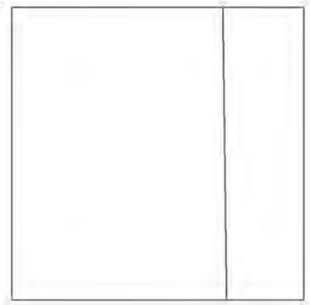
Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A



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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref:	Garages at the end of Olney Street, HD7 5EG
Report Ref:	GS-5R8-P2E-MPE-FF9
Grid Ref:	408079, 414350

Map Name:	National Grid
Map date:	**1968**
Scale:	1:2,500
Printed at:	1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1967
Revised 1967
Edition N/A
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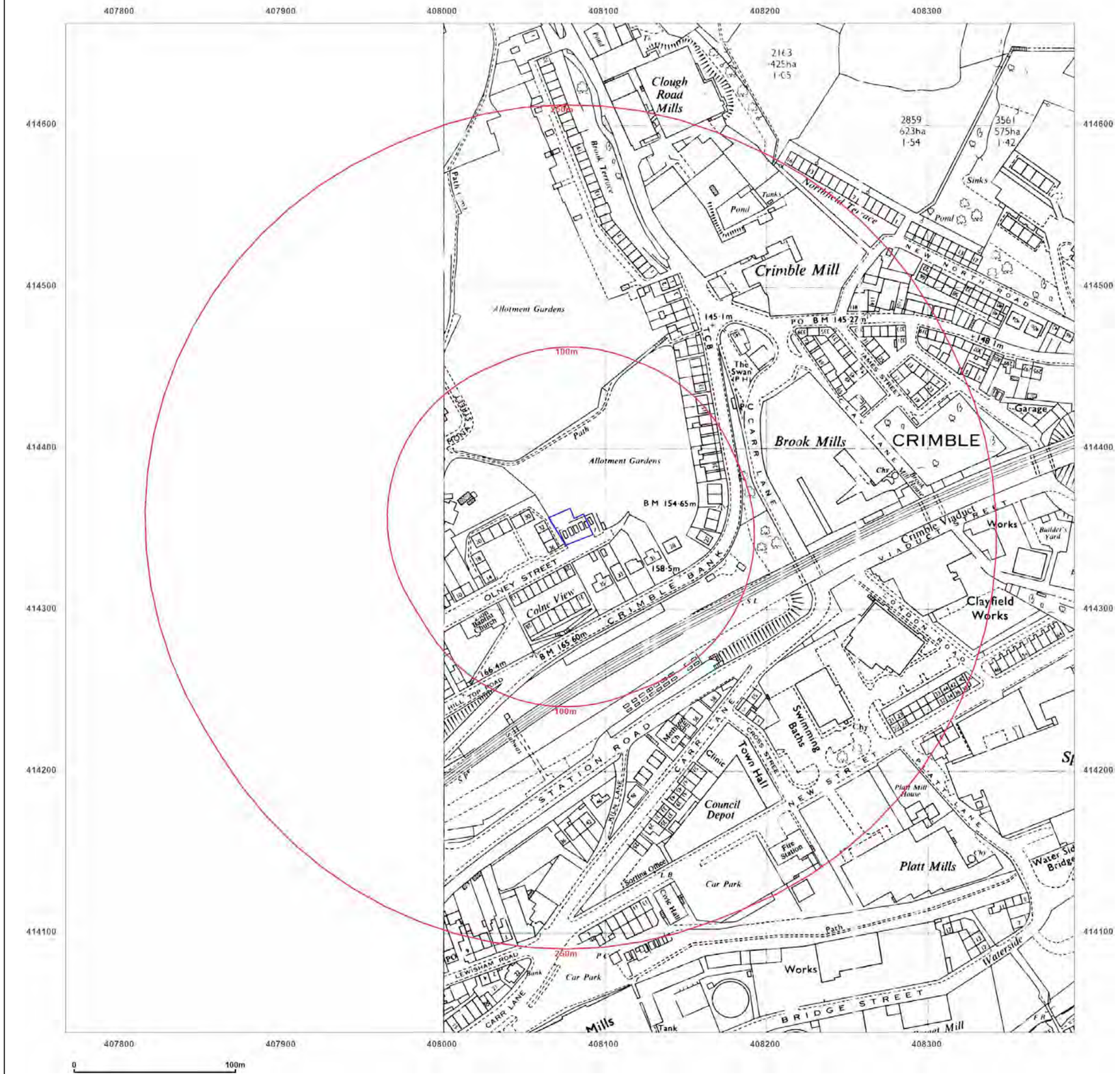

Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

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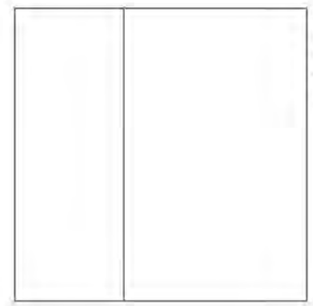

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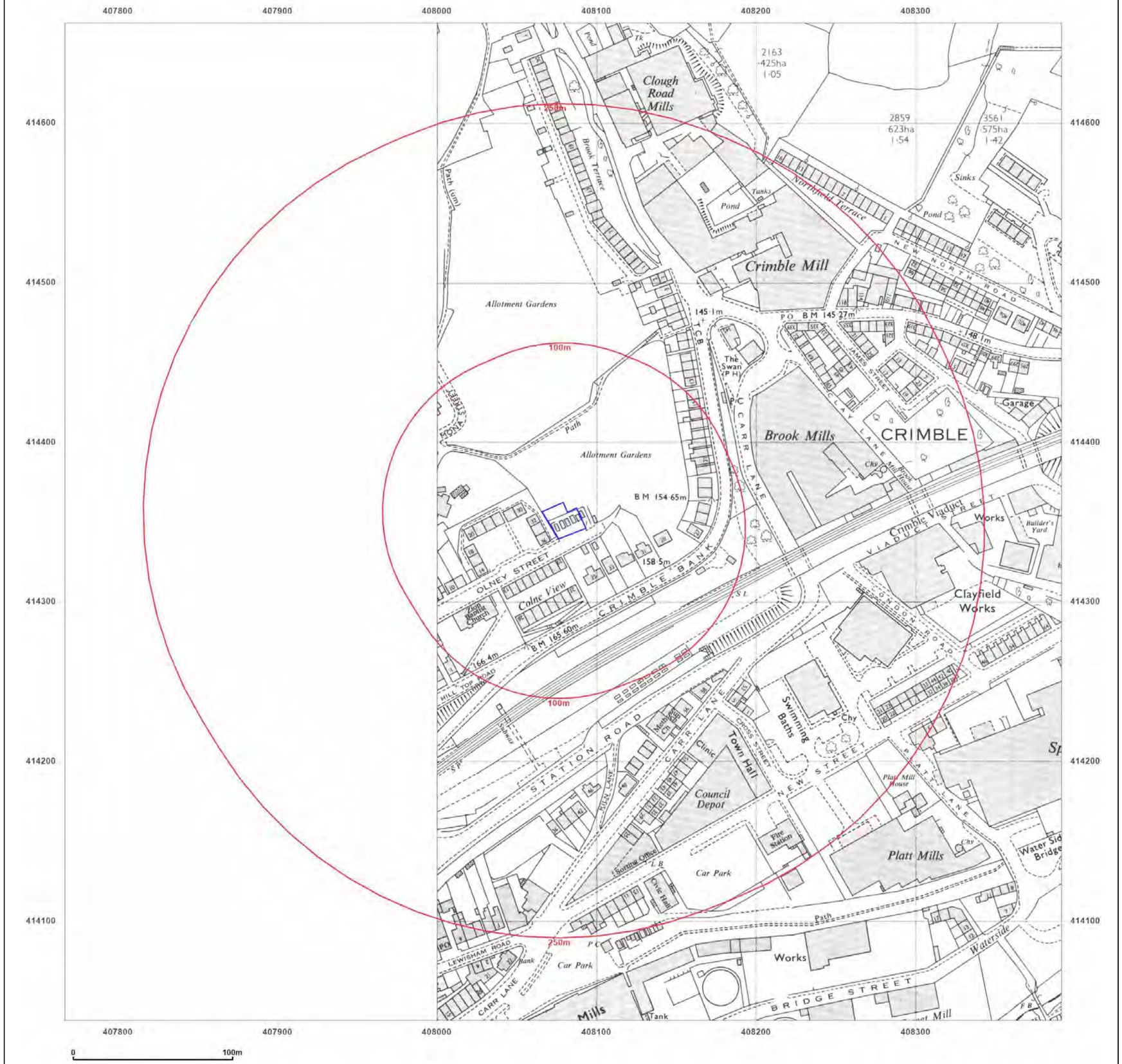

Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid

Map date: **1977**

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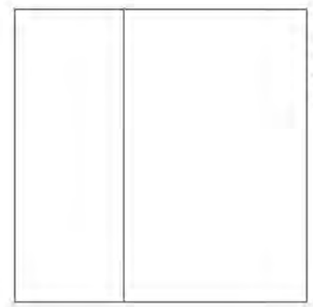

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Revised 1977
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Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref:	Garages at the end of Olney Street, HD7 5EG
Report Ref:	GS-5R8-P2E-MPE-FF9
Grid Ref:	408079, 414350
Map Name:	National Grid
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Scale:	1:2,500
Printed at:	1:2,500

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Surveyed 1962
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Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

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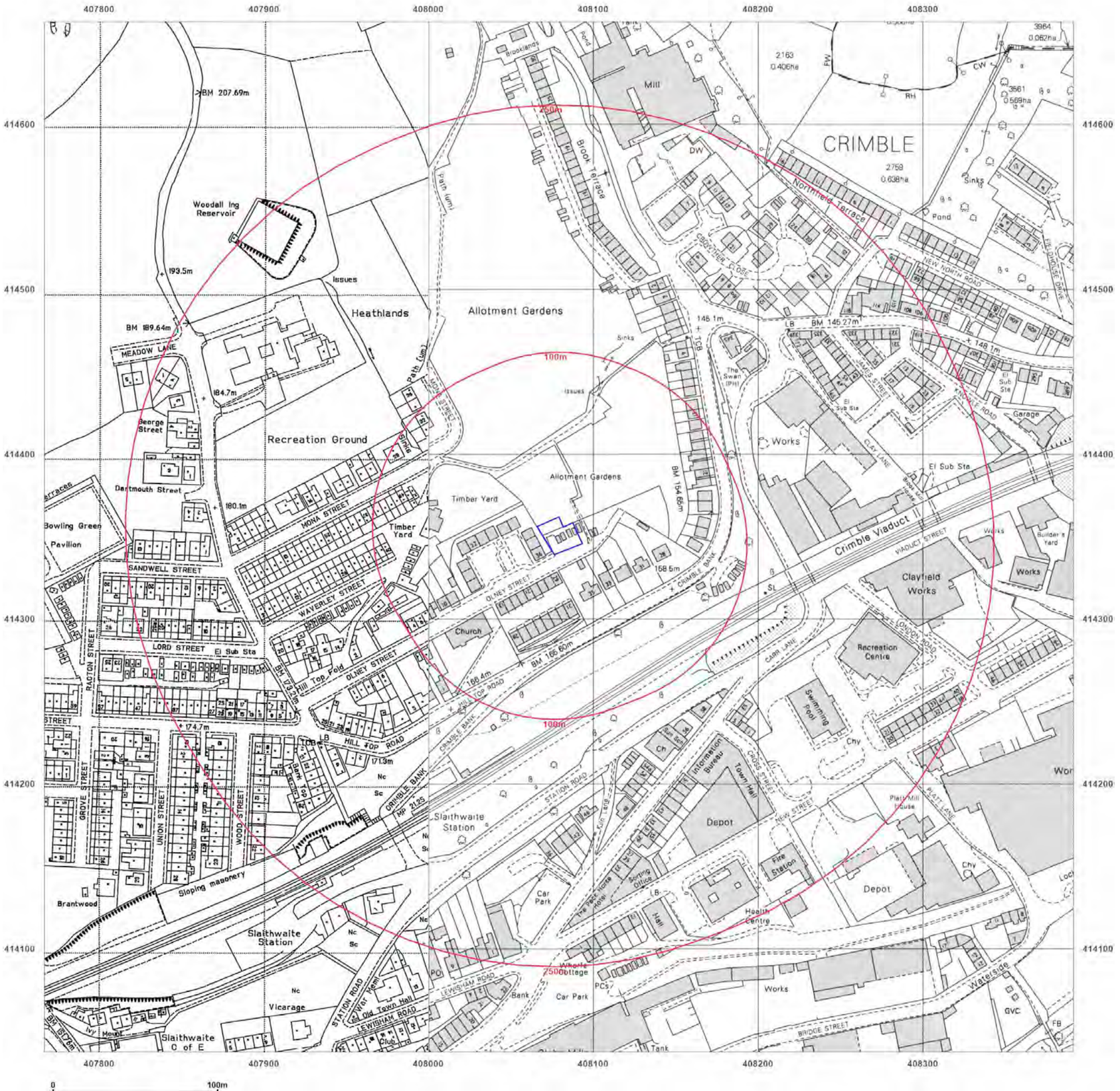

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Revised 1994
Edition N/A
Copyright 1994
Levelled N/A

Surveyed 1991
Revised 1991
Edition N/A
Copyright 1992
Levelled N/A

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid

Map date: **1992-1994**

Scale: 1:2,500

Printed at: 1:2,500

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Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:2,500
Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: LandLine
Map date: **2003**
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Printed at: 1:1,250

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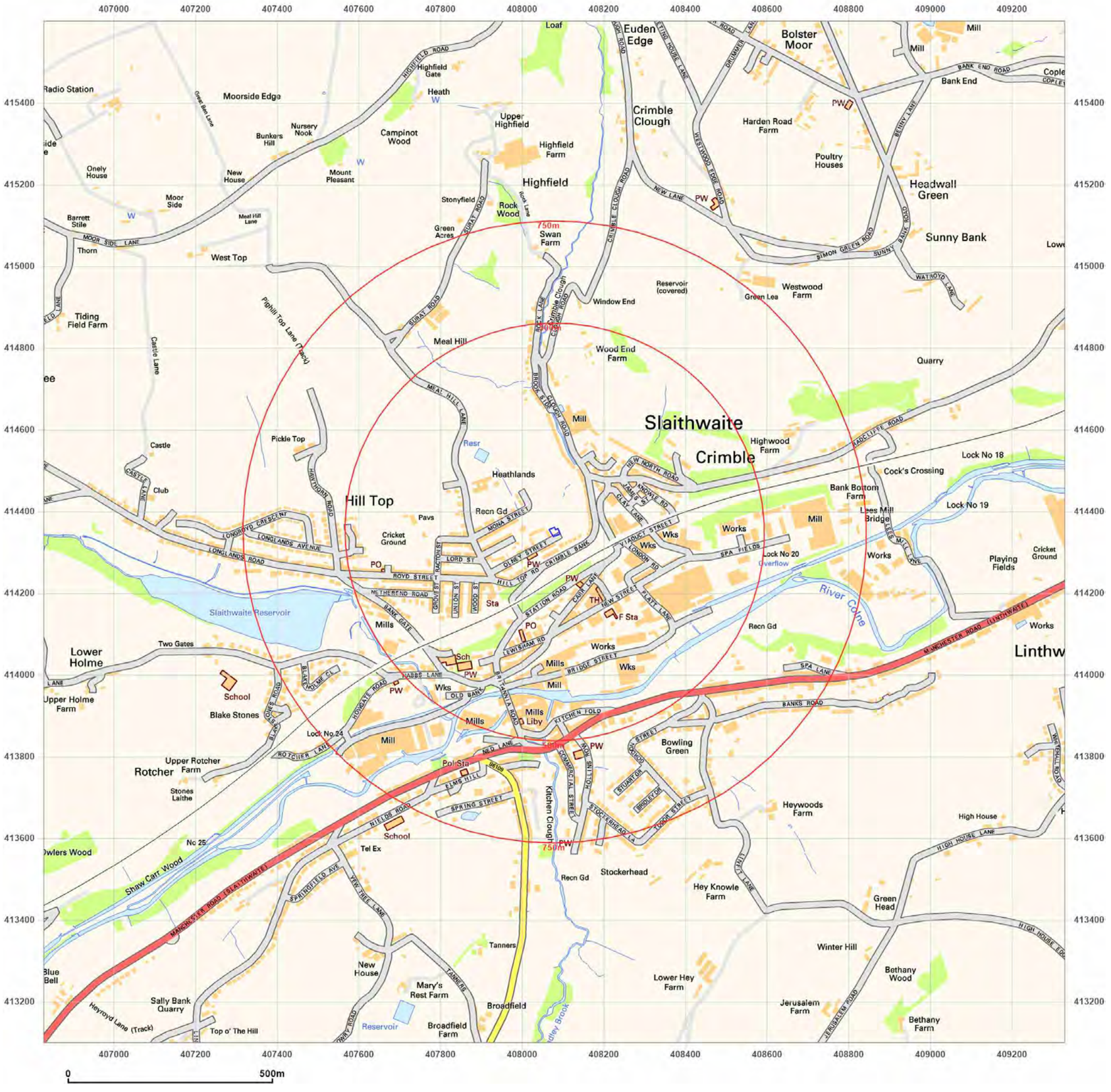

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Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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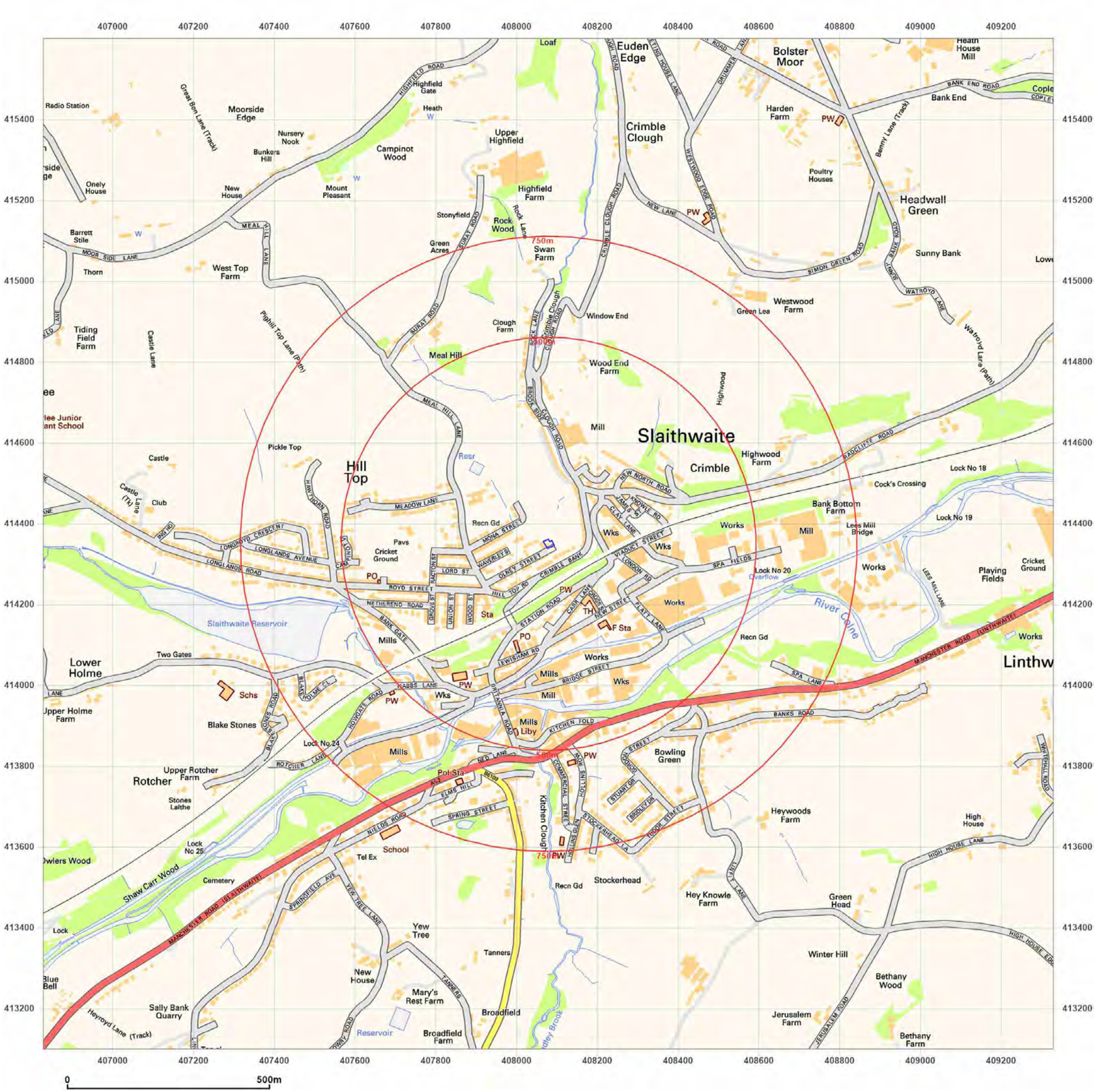

Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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Map legend available at:
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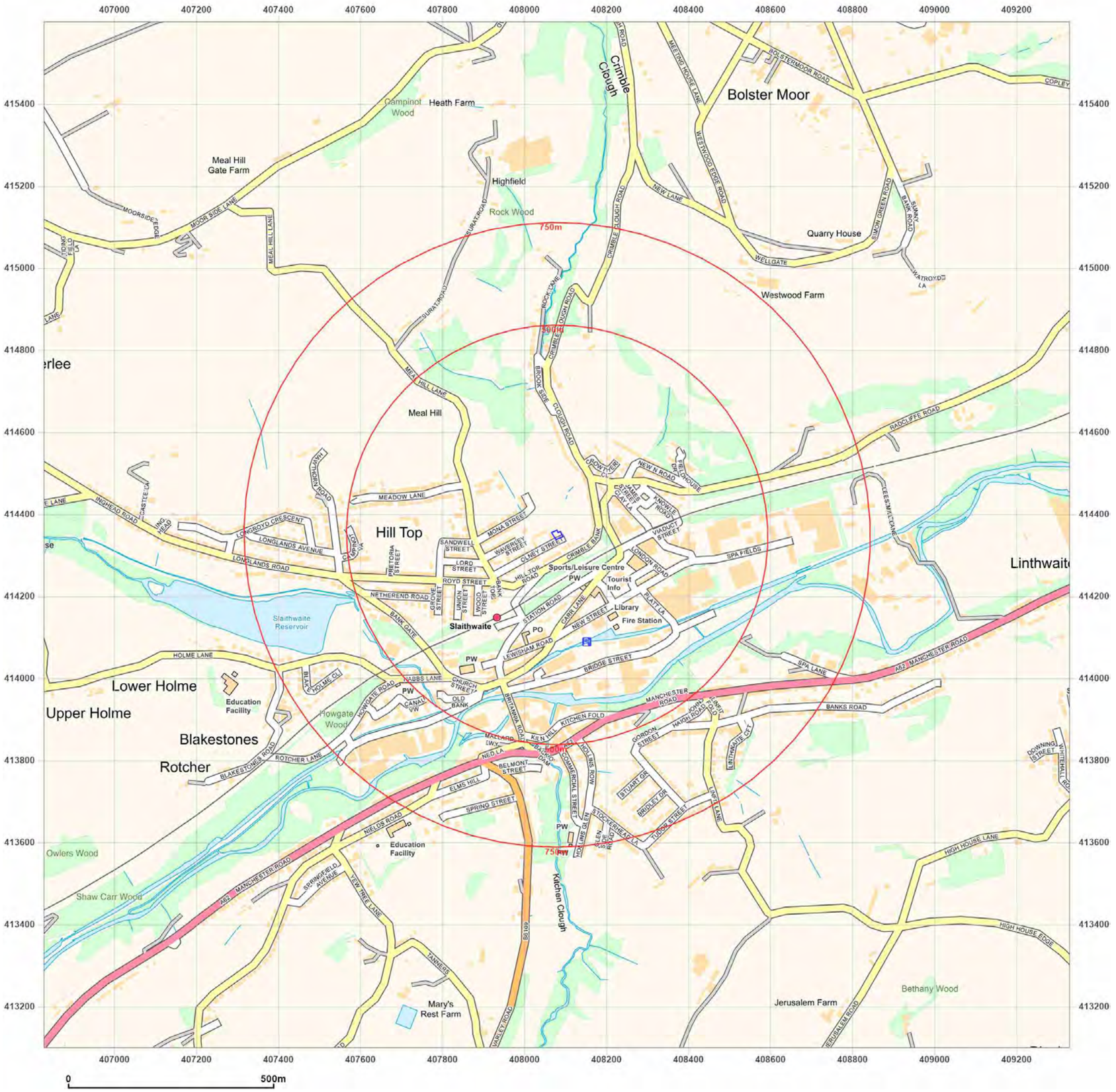

Groundsure INSIGHTS

Site Details:

Garages at the end of Olney Street Slaithwaite Kirklees HD7 5EG

Client Ref: Garages at the end of Olney Street, HD7 5EG
Report Ref: GS-5R8-P2E-MPE-FF9
Grid Ref: 408079, 414350

Map Name: National Grid
Map date: **2025**
Scale: 1:10,000
Printed at: 1:10,000

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Production date: 16 May 2025

Map legend available at:
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Appendix 5: Zetica UXO Mapping

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Location: HD7 5EG,
Map Centre: 408014,414312

This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

Miltary | **Industry** | **UXO find** | **Other**
Transport | **Docks** | **Luftwaffe targets**
Utilities | **Bombing decoy** | **Airfields**

How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density.
Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then additional detailed research is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our pre-desk study assessments (PDSA) by emailing a site boundary and location to pdsa@zetica.com.

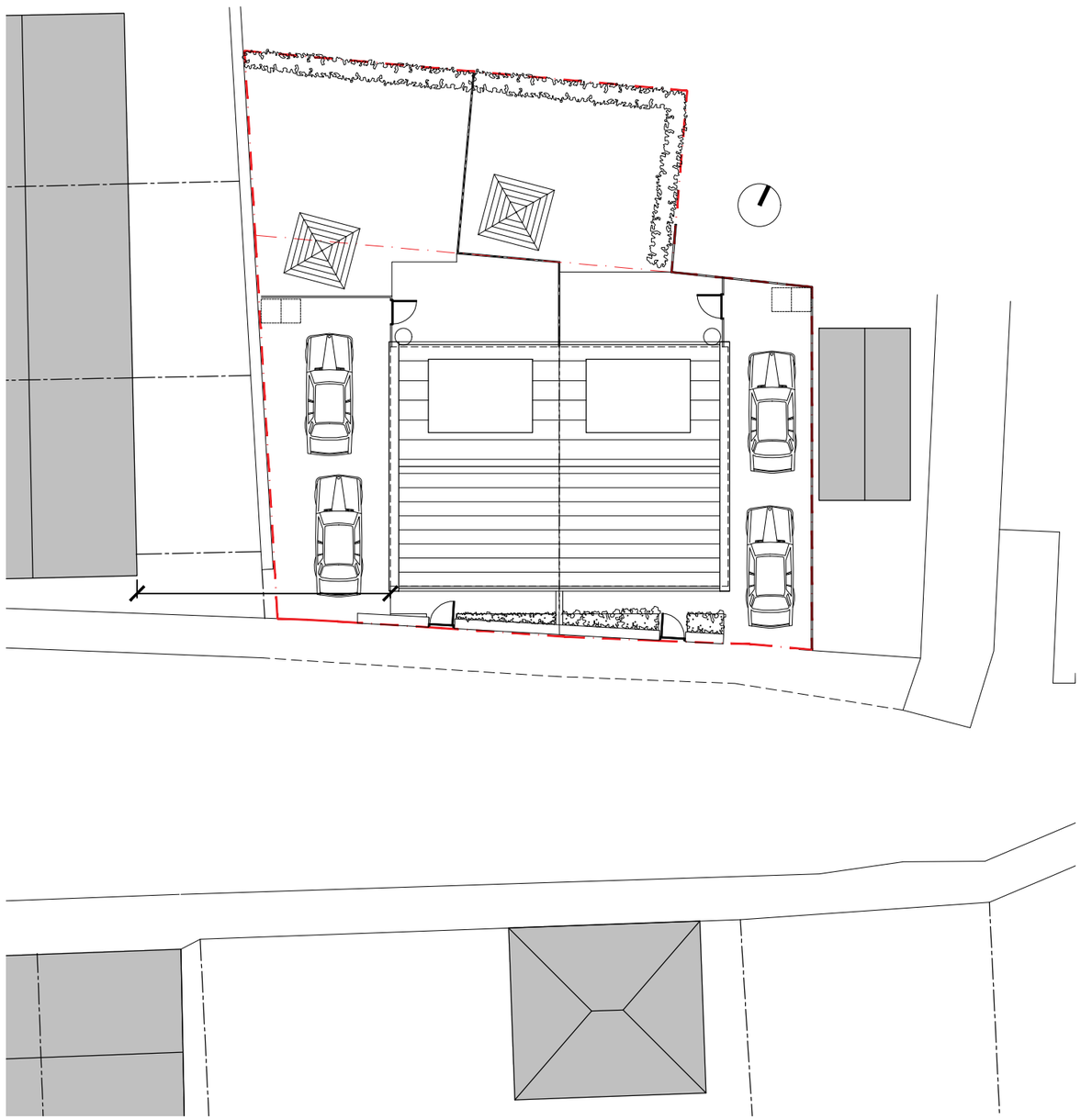
You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 **email:** uxo@zetica.com **web:** www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the accompanying notes on our website.

Appendix 6: Development Plans



Appendix 7: Document Production Record

Document number	Editor	Position	Issue number	Date
Arbtech LQ-PRAHD75EGR1V0	C.A.Radiven Bsc Hons MiEnvSci	Geo-Environmental Manager	01	24/05/25

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