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Geo-environmental
Ground Investigation Report

ON

PROPOSED RESIDENTIAL DEVELOPMENT

AT

LAND EAST OF CLOUGH ROAD, SLAITHWAITE

FOR

SB HOMES

NOVEMBER 2025

E25/8187/R002

Haigh Huddleston Associates is the trading name of Haigh Huddleston Associates Limited
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Appendix A Site Location Plan
Site Investigation Plan
Typical Site Conceptual Model

Appendix B Trial Hole Logs
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Appendix C Chemical Analysis of Samples
Geotechnical Analysis of Samples

Appendix D Groundsure Enviro + Geo Report

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0.0 EXECUTIVE SUMMARY

SITE	The site is located to the east of Clough Road, Slaithwaite. The site is irregularly shaped, with boundaries formed by Clough Road to the west and open field to the east. North and south of the site are residential properties. The site was slightly overgrown with clearance work proving a surface of soi, brick and crushed stone. The site is raised approximately 2-3m above Clough Road to the west, and the land to the east is approximately 4-5m higher than the site.
HISTORY	The site has been used for industrial purposes since at least 1854, with a mill and associated buildings and mill pond gradually occupying the entire site until around 2010 when the buildings were demolished. There was originally industrial site usage to the south of the site until 1992 when the mill had been demolished and replaced by a residential development. There has been no development immediately east of the site and to the north has been residential development.
GEOLOGY	The majority of the site is shown to be underlain by the Millstone Grit Group consisting of Mudstone, Siltstone and Sandstone with the south western tip underlain by the Readycon Dean Flags formation consisting of Sandstone. There are no fault lines in the vicinity of the site. The site investigation generally proved 0.2-2.1m of made ground and clays overlying a mudstone/sandstone bedrock that was encountered at 0.45-2.3m below ground levels. Deeper made ground was encountered within the infilled former mill pond, and former concrete floor slabs were encountered intact within the made ground.
MINING/QUARRYING	The site is not in a development high risk area with regard to coal mining. A sandstone quarry was shown 250m south west of the site in 1854 and was no longer shown by 1992.
HYDROLOGY	Crimble Clough watercourse is shown running north to south 7m west of the site. The site is not located within any Environment Agency defined flood zones or shown to be at risk of flooding from rivers or the sea. However Clough Road on the western boundary is shown to be in Flood Zone 3.

HYDROGEOLOGY	The bedrock underlying the site is classified as a Secondary (A) Aquifer. Ground water seepage was noted in a single trial pit in the north of the site t 2.1m depth. Water strikes were recorded in two of the twelve window samples at 2.3-4.0m depth, both were located on the eastern boundary. During the gas monitoring, water levels have been monitored at 1.3-3.45m below existing ground levels.
HAZARDOUS GAS	No Radon Measures are required for the site. During the gas monitoring, a peak maximum carbon dioxide concentration of 2.7% has been recorded. No methane or flow rates have been recorded on site. Based on the maximum concentrations of carbon dioxide recorded, the gas regime found on this site can be currently classified as CS1 by BS 8485:2015+A1:2019 Table 2.
CONTAMINATION	The made ground on site proved an elevated level of Arsenic (110 mg/kg), three elevated levels of lead (210-420 mg/kg), elevated levels of PAH (Total) or individual PAH compounds in five of the ten samples and eight of the ten samples proved positive for asbestos.
REMEDIATION	Due to the number of samples proving positive for asbestos, it is recommended to provide a 1m depth of clean capping with a high visibility membrane to soft landscaped areas. As it is proposed to lower site levels, this material will need to be removed to a suitably licensed waste site. As there is no suitable clean topsoil on site, material will need to be imported. Temporary works to be undertaken to prevent surface water run-off contaminating the open watercourses to the west of Clough Road during construction works on site.
FOUNDATIONS	It is recommended the proposed low rise residential properties are constructed strip/trench fill footings where the depth of fill is less than 2.5m deep. Piled foundations should be used where the depth of fill is over 2.5m, or the properties are adjacent the existing retaining walls on site. As site levels are to be lowered to accommodate the allowable adoptable highway road gradients, a review of the foundation proposals should be undertaken following design of finalised plot levels.

1.0 INTRODUCTION

1.1 As requested by SB Homes, this practice carried out ground and contamination investigation works for the proposed residential development on to the east of Clough Road, Slaithwaite.

1.2 The purpose of the report was to:-

1.2.1 Identify the nature of the near surface strata, in order to enable recommendations to be made as to the most economic foundation solution for the proposed residential development.

1.2.2 Propose a suitable outline remediation strategy, which will enable the site to be developed safely, to the satisfaction of the overseeing regulators and in compliance with the current environmental standards.

1.2.3 Determine if ground gas generation from areas of historical infilled ground would adversely affect the development.

1.3 Soil sampling was undertaken via trial pits and window samples to determine the near surface strata. Distributed samples were taken for testing to ascertain the nature of the soils and fills present.

1.4 The conclusions and recommendations made in this report are limited to the findings of the preliminary Geotechnical Survey. The report is made on condition that Haigh Huddleston Associates will not in any circumstances be liable for loss, arising directly or indirectly from ground conditions encountered between trial pits and window samples, which have not been revealed by the investigation.

1.5 Any opinion given on the possible configuration of strata between trial pit and window sample locations and below maximum depth of the investigation is for guidance only. Any remarks on groundwater conditions made are based solely on observations made at the time of investigation. Kindly note that levels may differ from those reported due to seasonal variations or other influences.

1.6 Furthermore, there is the possibility that any trial pits or window samples undertaken as part of the investigatory works may be within the influence of existing or proposed foundations or excavations. Haigh Huddleston Associates cannot be held responsible for any failure of any excavations, foundations or structures within the influence of the trial pits or window samples.

2.0 THE SITE

2.1 The site is located to the east of Clough Road, Slaithwaite. It is situated around Ordnance Survey grid reference 408143, 414614. A site location plan is included in Appendix A.

2.2 The site is irregularly shaped, with boundaries formed by Clough Road to the west, and open field to the east. To the north and south are residential properties. Access to the site is from Clough Road in the north western corner. The total site area is approximately 0.87ha.

2.3 At the time of the site investigation, the site was slightly overgrown with clearance work required to get around. Clearing the undergrowth revealed a made ground surface consisting of soil, brick and stone with occasional stockpiles of demolition material dotted around site.

2.4 The site falls with irregular slopes north to south and east to west. The land to the east is approximately 4.5-5.0m higher than the site and is occupied by self seeded tree growth. There is a small length of retaining wall in the north east, but the majority of the east boundary steeply banks up. On the western boundary, the site banks down by 2-3m to Clough Road. A high point of approximately 157.4m AOD is located in the north east and a low point of approximately 147.5m AOD is located in the south adjacent Clough Road.

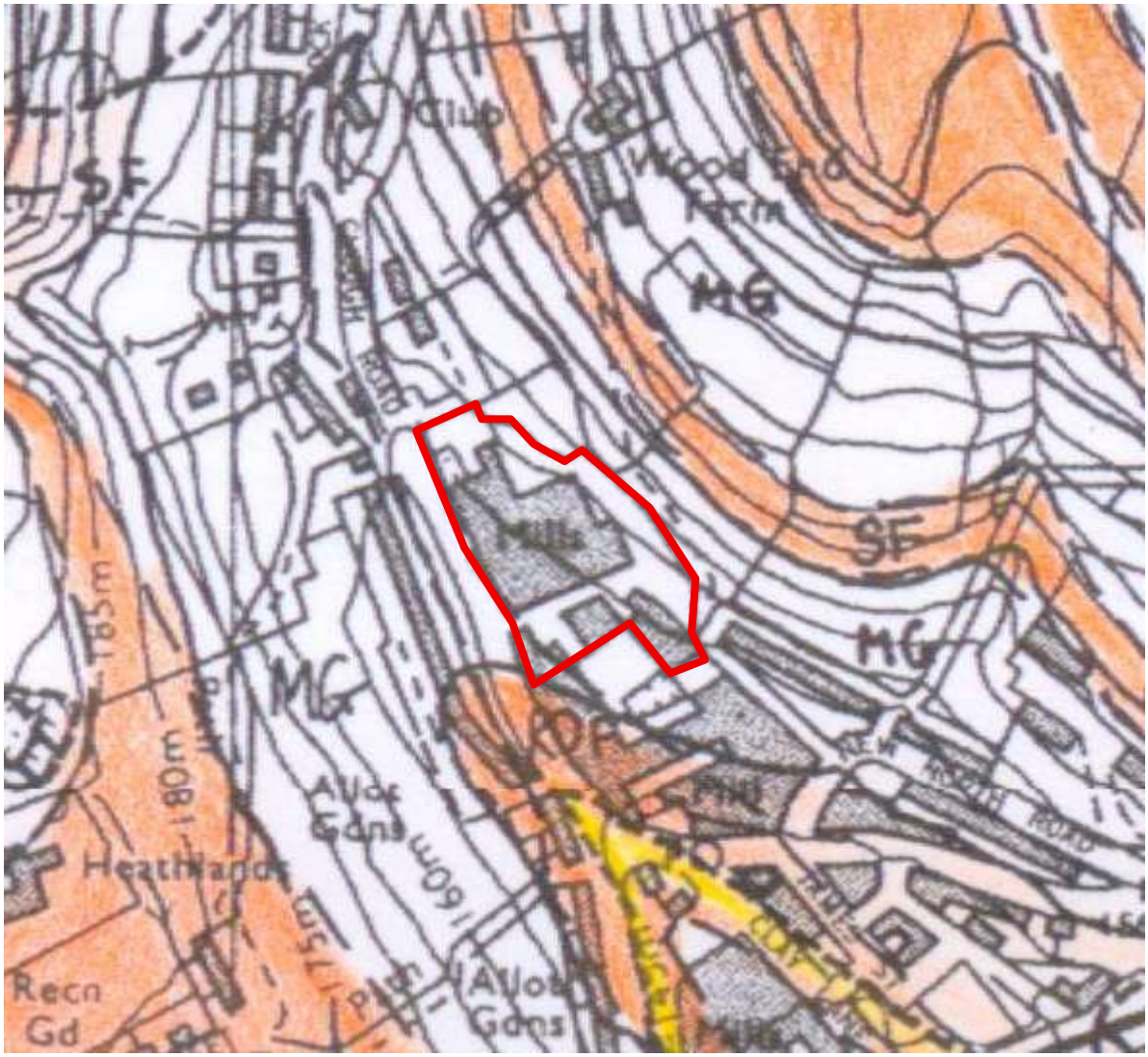
3.0 SITE HISTORY

3.1 A number of historical Ordnance Survey plans from 1854-2025 have been consulted. These are contained for reference within Appendix C to the rear of the report. Below is a brief description outlining the significant developments that may effect future construction of the site.

	Historical uses on site	**Historical findings within 100m perimeter of the site**	**Historical findings further than 100m perimeter of the site**
1854	i). The majority of the site is shown as open ground. ii). Crimble Clough Silk Mill shown on western boundary of site.	i). Clough Road shown to western boundary with watercourse beyond. ii). Primarily open field adjacent the site,	i). Railway line heading west-east 200m south of site ii). Sandstone quarry shown 250m south west of site.
1892	i) Reservoir shown in north west of site.	i) Residential development to south east of site.	i). Sewage works 300m south east of site.
1908	i). Builiding adjacent western boundary expanded and re-named Clough Road Mills. ii) Buildings shown in south eastern corner.	i) Large Crimble Mills shown to south of site.	i). No significant developments within 500m of site.
1930-1978	i). Reservoir in north west reduced in size as existing building expands. ii). Crimble Mill buildings extend into south western corner of site.	i. No significant developments within 100m of site.	i). No significant developments within 500m of site.
1992-2010	i) Crimble Mills no longer extends into south western corner of site.	i) Crimble Mills to south of site demolished and replaced by residential estate.	i) Sandstone quarry no longer shown 250m south west of site
2025	i) Buildings no longer shown on site.	i) No significant developments within 100m of site.	i) No significant developments within 500m of site.

4.0 SITE GEOLOGY & MINING

4.1 The BGS Digital Geological Map of Great Britain at 1:10,000 scale has been consulted, as well as BGS sheet SE01SE (Slaithwaite), of which there is an extract below, and we would report as follows:-



4.2 No superficial or artificial strata is shown to overlie the site.

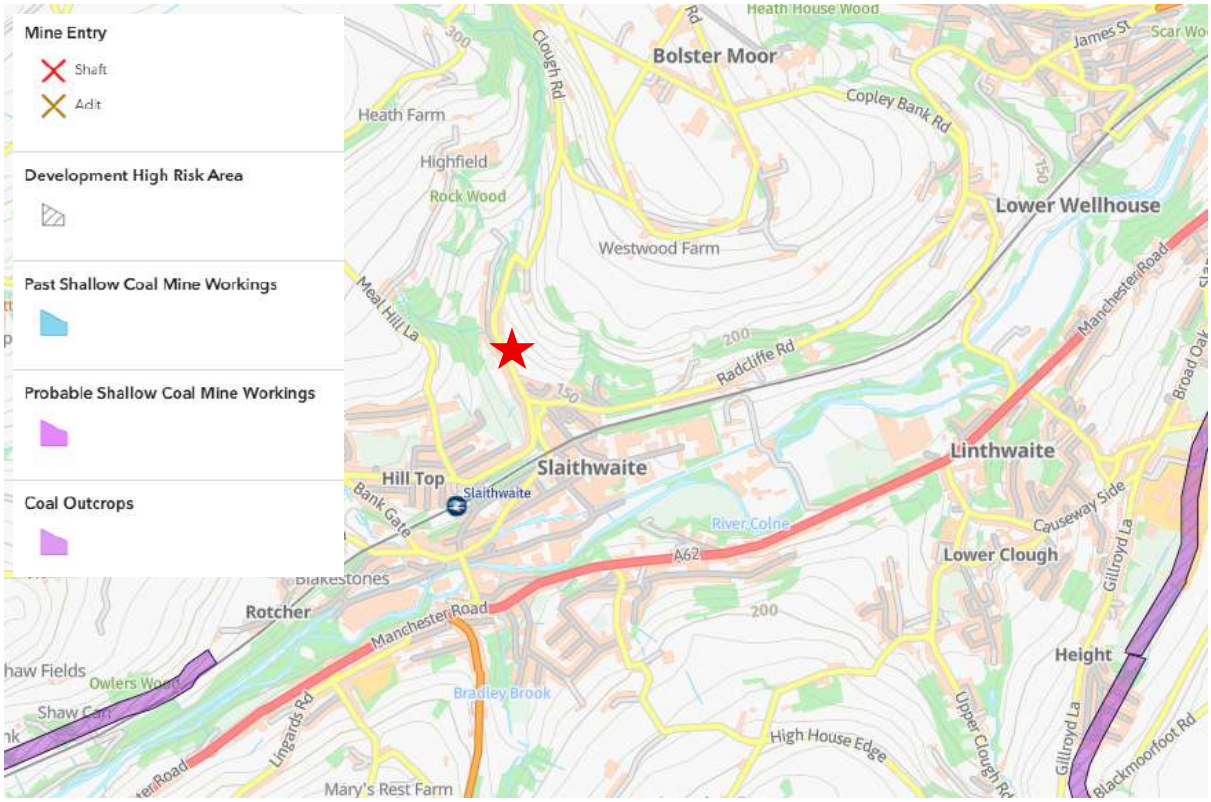
4.3 The majority of the site is shown to be underlain by the Millstone Grit Group consisting of Mudstone, Siltstone and Sandstone. The south western corner of the site is shown to be underlain by the Readycon Dean Flags formation consisting of Sandstone.

4.4 There are no fault lines shown in the vicinity of the site.

4.5 The majority of the site is shown to be in an area with a hazard rating of “Low” for landslides and slope stability of the site should be considered.

4.6 There are two BGS boreholes located 26-27m south east of the site. These show up to 2m of made ground overlying clays with shale encountered at a depth of 4-6m. Beneath this are further layers of shale, sandstone and millstone grit to the base of the boreholes at 97.5-112.5m below existing ground levels.

4.7 The Mining Remediation Authority Map Viewer shows the site to lie outside the development high risk area. There are no coal outcrops or mine entries indicated in the vicinity of the site.



5.0 ENVIRONMENTAL CONSIDERATIONS

5.1 Radon

According to the UKRadon.org online map, the site is an area where less than 1% of properties are above the Radon Action level.

No Radon Protective Measures are necessary for the development. However, a number of warranty providers consider it good practice to provide basic radon protective measures as standard and they should be consulted at an early stage to confirm their requirements.

5.2 Landfill Sites

There are no recorded historical landfill sites within 250m of the site.

5.3 Flood Risk

The site is not located in a currently defined Environment Agency floodzone or at risk of flooding from rivers and the sea. However, Clough Road on the western boundary of the site is shown as being in Flood Zone 3.

5.4 Groundwater

The bedrock underlying the site is classified as a Secondary (A) Aquifer. These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flows to rivers. These are generally aquifers formerly classified as minor aquifers.

The site is not within a currently defined (Groundwater) Source Protection Zone (SPZ).

There are no water abstractions within a 250m radius of the site.

There was a single recorded licensed discharge to controlled waters within 250m of the site. This was a discharge of process effluent to Clough Beck 10m south west of the site via a mill race and was revoked in 2010.

There are no incidents of pollution to controlled waters within 250m of the site.

Crimble Clough watercourse is shown running north to south 7m west of the site, on the far side of Clough Road. Surface water run-off from the highway discharges directly into the watercourse. This is classified as an inland river not influenced by normal tidal action.

5.5 Designated Environmentally Sensitive Site

The land immediately east and north of the site is shown to be part of the South and West Yorkshire Green Belt.

6.0 PRELIMINARY CONCEPTUAL SITE MODEL

6.1 The initial stage in assessing the risks posed from contaminated land during the redevelopment of a site is to prepare a conceptual model. A generalised conceptual model can be developed highlighting the main pollutant linkages through a contaminant ► pathway ►receptor model for a residential development. In order to prepare the conceptual model for a particular site the following parameters need to be reviewed as discussed below.

6.2 Contamination of existing land can be caused by a number of factors, including:-

i) Possible historical/current industrial activities.
ii) Disposal of waste materials.
iii) Storage of materials.
iv) A number of natural processes can also lead to hazardous gases and elevated heavy metals.

6.3 Potential pathways can include ground and surface water, permeable strata, existing services providing a conduit and voided ground. Potential receptors can include human health, ecosystems, controlled waters and building structures. There are a number of ways that a receptor can be exposed to the contaminant these include, inhalation, direct contact, ingestion, dermal contact and uptake.

6.4 Sources of potential contamination, that could affect the proposed development, from either on or off site activities would include the following:-

i) Historical use of site and land to the south for industrial purposes.
ii) Potential ground gas migration from infilled ground to former reservoir on site.
iii) Possible contaminated materials used in levelling of site and construction of former buildings on site.

Based on the above activities the potential for some contamination to exist on site is considered to be moderate.

6.5 Considering the proposed residential end use, there will be two possible human receptor groups exposed to the existing onsite contamination:-

a) Site operatives during development.
b) End users, future site residents (the critical receptor is a 6 year-old girl).

6.6 Human receptors may be exposed to site contamination by a number of possible pathways. These pathways are summarised in Table 1 below.

Table 1- Potential Human Exposure Pathways

Human Exposure Pathway	Site Residents	Construction Workers
Soil Ingestion	YES	YES
Consumption of Home Grown Vegetables	YES	NO
Dermal Contact	YES	YES
Dust Inhalation	YES	YES
Gases/Vapours	YES	NO

6.7 The construction workers will come into contact with any contaminated soil to a far greater extent than future residents. The exposure pathways are generally through dermal contact and indirect ingestion. However their exposure will be for a limited time and the provision and correct use of personnel protective equipment and adequate welfare facilities during construction should restrict their risks to acceptable levels.

6.8 Future site residents can be protected in the long term development of the site via a suitable remediation strategy that ensures any proposed contaminated materials remaining on-site are suitably isolated beneath an effective capping layer.

6.9 The risk of pollution to controlled waters by existing contamination is considered low. There have been no recorded pollution incidents to controlled waters associated with the site. There are no licensed ground water abstractions within a 250m radius of the site. However, a watercourse is noted to the west of Clough Road on the western boundary and temporary works should be designed to ensure that these are not contaminated from run-off from site during the development.

6.10 No specific areas of ecological importance have been identified in the initial desk top study. Therefore the site is considered to be in a low risk environmental setting. The potential for phototoxic materials to exist at shallow depth should be considered, these could pose a potential risk to new planting and soft landscaping areas within the proposed development.

6.11 The proposed planning drawings indicate a residential properties with private garden areas and associated highways. The presence of elevated sulphates and hydrocarbons could affect the long term integrity of buried concrete structures, including foundations and drainage pipes. Plastic water supply pipes can also be damaged by the presence of hydrocarbon contamination.

7.0 FIELDWORK

7.1 Site investigation works were undertaken on 29 July 2025. A total of 14 trial pits were undertaken using an 8 tonne tracked excavator with 600mm bucket. In addition to this, 12 window samples were undertaken, five of which were installed with standpipes to allow ground gas and water levels to be monitored.

7.2 Materials encountered in the trial pits were examined and categorised. Trial pit and window sample logs are contained within Appendix B of the report.

7.3 The site investigation works were designed to achieve comprehensive site coverage within the proposed site, primarily concentrating on the area to be developed.

7.4 Soil samples were removed from the natural and made ground deposits within the trial pits. The samples were removed by operatives wearing gloves and placed into airtight clean plastic containers and glass bottles for transportation to the laboratory.

7.5 A total of ten samples from natural and artificial ground deposits were recovered from the trial holes for chemical analysis. The testing was carried out by a UKAS accredited laboratory to nationally or accredited in-house methods. The results of the contamination testing are contained within Appendix C of this report.

7.6 A suite of common potential contaminants consisting of heavy metals, phytotoxic metals, sulphates, sulphides and poly-aromatic hydrocarbons was analysed for, including asbestos. Due to discolouration noted within the clay of TP08, this sample was also analysed for

7.7 All samples were stored in airtight containers within cool boxes at approximately 4°c until delivery to the laboratory.

8.0 RESULTS OF THE INVESTIGATION

8.1 GEOTECHNICAL INVESTIGATION

8.1.1 A copy of the trial hole and window sample logs providing a complete record of strata encountered beneath the proposed development is presented in Appendix B.

8.1.2 The site investigation generally proved a relatively shallow depth of made ground and clays overlying a mudstone/sandstone bedrock. The made ground was noted to be deeper within the former reservoir in the north of the site.

8.1.3 The surface of the trial pits generally consisted of a 0.2-2.1m thick layer of made ground consisting of soils, re-engineered clays, gravels, crushed brick and occasional ashy gravels. In TP13 in the central northern area of the site, the made ground was noted to also contain stone, copper wire, metal piping and sections of brick wall. In TP01, TP04, TP07, TP10 and TP12 concrete slabs were encountered at the base of the made ground. TP12 encountered the edge of a concrete slab at 0.2m below ground level, while TP12A immediately adjacent proved made ground to a depth of 2.1m.

8.1.4 In TP02, TP04, TP05 and TP11 there was a 1.0-2.0m thick layer of firm yellowish brown/reddish brown sandy clay with numerous mudstone gravels noted in TP02 and TP05. The clay extended to the base of the trial pit at 3.0m and 2.6m below ground levels respectively in TP04 and TP05 in the south east of the site.

8.1.5 Mudstone bedrock was encountered in the base of TP02, TP03, TP06, TP08 and TP13 in the central and eastern areas of the site at depths of 0.45-2.0m below existing ground levels. This was generally a moderately strong mudstone with occasional iron staining and excavated as horizontally bedded shales. In TP08 in the south of the site this was noted to have a blue discolouration at shallow depth, although no odours were noted.

8.1.6 Sandstone bedrock was encountered in the base of TP09, TP11, TP12 and TP12A in the west of the site at depths of 1.5-2.3m below ground level, largely dependent on the depth of overlying made ground. The sandstone was moderately strong and horizontally bedded. The sandstone can be seen to be outcropping at footpath level on the western boundary with Clough Road.

8.1.7 The window samples generally proved a relatively shallow depth of clays and re-engineered clays containing demolition rubble with a mudstone/sandstone bedrock encountered at 1.0-4.4m below existing ground levels.

8.1.8 A summary of the CPT values are included in Table 2 below:

Table 2 - Summary of CPTs (N Value)

Depth (m)	1.0-1.45	1.8-2.25	2.0-2.45	2.7-3.15	3.0-3.45	4.0-4.45	4.9-5.35	5.0-5.45
1	16	-	14	REFUSAL	-	-	-	-
2	12	-	19	REFUSAL	-	-	-	-
3	11	-	7	-	REFUSAL	-	-	-
4	6	-	11	-	20	16	REFUSAL	-
5	9	-	8	-	REFUSAL	-	-	-
6	21	-	REFUSAL	-	-	-	-	-
7	29	-	25	-	REFUSAL	-	-	-
8	6	REFUSAL	-	-	-	-	-	-
9	REFUSAL	-	-	-	-	-	-	-
10	REFUSAL	-	-	-	-	-	-	-
11	4	-	9	REFUSAL	-	-	-	-
12	5	-	8	-	22	25	-	REFUSAL

8.1.9 The CPTs generally proved the overlying natural clays to be stiff to very stiff, with the re-engineered clays and made ground being soft. Refusals were recorded in the underlying bedrock.

8.1.10 The result of the geotechnical analysis undertaken on the samples of clayey soil indicates the clay to be of intermediate-high plasticity (Liquid Limit 49-60%). If the modified results are calculated, taking into account the percentage of material retained on a 425micron sieve, the results correspond to a MEDIUM shrinkage clay. The test certificate is contained in Appendix C.

8.2 GROUNDWATER

8.2.1 During the site investigation works, slight ground water seepage was recorded in only TP13 in the north of the site at a depth of 2.1m where the mudstone was encountered.

8.2.2 During the window sampling, water strikes were recorded in two of the twelve window samples. This was within window samples WS03 and WS04 on the eastern boundary at depths of 2.3m and 4.0m respectively.

8.2.3 During the gas monitoring, water levels have been monitored at 1.3-3.45m below existing ground levels.

8.2.4 It should be recognised that groundwater levels may vary throughout the year. During periods of heavy rainfall the groundwater levels may be substantially higher than the results revealed in these investigations.

8.3 GAS MONITORING

8.3.1 Due to the infilled mill ponds located on and adjacent the site, in addition to the depth of made ground encountered, gas monitoring standpipes have been installed on site to determine if ground gas generation would adversely affect the development.

8.3.2 Five of the window samples located through the site were installed with gas standpipes and lockable covers. Gas testing has been undertaken on six occasions over a three month period following the installation of the standpipes.

8.3.3 A standard gas monitoring procedure has been followed in accordance with CIRIA guidance, including measurement of the following:-

i) Methane, Oxygen and Carbon Dioxide concentrations.
ii) Atmospheric Pressure.
iii) Gas Flow Rate.
iv) Standing water level.

8.3.4 A complete set of results are included in Appendix C to the rear of the report.

8.3.5 The gas monitoring was undertaken over a range in barometric pressure between 980mb and 996mb.

8.3.6 There has been no methane recorded in any of the standpipes.

8.3.7 Carbon dioxide concentrations between 0.0% and 2.7% have been recorded on site, with oxygen levels between 14.9 and 21.0%.

8.3.8 No steady flow rates were detected in the monitoring stations on site..

8.3.9 Due to the low levels of carbon dioxide and no flow rates recorded on site, we would recommend the gas regime on this site be currently classified **CS1** by BS 8485:2015+A1:2019 Table 2.

9.0 CONTAMINATION

9.1 HUMAN HEALTH RISK ASSESSMENT

9.1.1 The appraisal of contaminated land within the UK is based on a risk assessment approach. The method involves the principle of defining a source ► pathway ►receptor, linkage to establish a human health risk. For any risk to exist to a potential receptor from an identified contaminant there must be an unbroken source ► pathway ►target relationship.

9.1.2 In the first instance site data for the contaminant levels are compared against guidance such as the CLEA values published by DEFRA. Should the site values exceed the guidance criteria, the contamination levels are recognised to have the potential to pose a risk to human health. Two scenarios are then available:-

a) To break or remove one of the source ► pathway ►receptor linkages, by specifying an appropriate level of remedial work. Examples of remedial action may include the removal of the contaminated material or alternatively specifying a sufficient capping layer.

b) The alternative approach is to provide a more detailed human health site specific risk assessment. This will involve examining factors such as soil properties, exposure assumptions, groundwater flows and contamination composition.

9.2 CONTAMINATION RESULTS

9.2.1 As stated above, in order to put the analytical results into context, the data has in the first instance been assessed in relation to several sets of guidelines: -

9.2.2 The analytical results have been assessed via an initial screening assessment with regard to the current Contaminated Land Exposure Assessment model (CLEA UK) for human health, which has been produced for the Environment Agency and the Department of Environment, Food and Rural Affairs (DEFRA). The CLEA model provides Soil Guideline Values (SGVs) for a limited range of contaminants only, and these are based on risk to human health. As such they do not take into account potential risks to other receptors eg groundwater and third party land.

9.2.3 It is proposed to redevelop the site for residential properties with private garden areas. Soil results have therefore been assessed against Generic Assessment Criteria (GAC) based on guidelines from the Chartered Institute of Environmental Health (CIEH) and Land Quality Management Ltd (LQM) S4UL document. Where there is no GAC, guidance limits have been adopted from sources referenced in the table below.

9.2.4 In addition to the above, the calculation of SGVs based on an acceptably low level of risk is currently being undertaken. These Category 4 Screening Levels (C4SL) have been calculated for six substances to date by modifying the toxilogical/exposure parameters within CLEA. C4SLs have been used as tier 1 trigger levels within this assessment, superseding the previous CIEH and LQM SGVs.

9.2.5 Assessment of risk is considered as a tiered approach. Assessment based on non intrusive means is considered Tier 1 assessment, comparison against SGVs and GACs is a Tier 2 assessment, and the generation of and comparison with Site Specific Assessment Criteria (SSAC) is a Tier 3 assessment and is conducted where deemed appropriate following the Tier 2 assessment.

9.2.6 The sulphate and acid concentrations have been compared against the BRE digest “Concrete in Aggressive Ground” parts 1-4. This will enable the concrete class to be specified in relation to possible contact with aggressive soils.

9.2.7 The results of the chemical analysis are presented on the laboratory analysis sheets with Appendix C. A summary of the significance of the results is presented in Table 3.

Table 3

Comparison of contaminant against accepted guidance values for residential use with plant uptake for the samples from site.

CONTAMINANT	SGV MG/KG	CONCENTRATION IN ALL SOILS. MG/KG	No. OF SAMPLES EXCEEDING GUIDANCE VALUES	PERCENTAGE OF SAMPLES EXCEEDING GUIDELINE VALUE
Arsenic	37 (4)	2.4-110	1/10	10.0%
Cadmium	22 (4)	<0.1-0.6	0/10	
Chromium (Total)	130 (2)	16.0-67.0	0/10	
Lead	200 (4)	31-420	3/10	30.0%
Mercury (Total)	40 (1,5)	<0.05-0.29	0/10	
Selenium	250 (1)	<0.5-0.7	0/10	
Copper	2400 (1)	21.0-85.0	0/10	
Nickel	130 (1)	16.0-35.0	0/10	
Zinc	3700 (1)	43-220	0/10	
Sulphate	0.24 (3)	0.079-0.27	1/10	10.0%
Thiocyanate	50	<0.6-4.0	0/10	
Sulphide	250	<10-120	0/10	
Naphthalene	2.3 (1)	<0.1-6.6	1/10	10.0%
Benzo(b)flouranthene	2.6 (1)	<0.1-8.7	1/10	10.0%
Benzo(a)anthracene	7.2 (1)	<0.1-11.0	1/10	
Benzo(a)pyrene	5 (4)	<0.1-11.0	1/10	
Dibenzo(a,h)anthracene	0.24 (1)	<0.1-1.2	5/10	50.0%
PAH (Total)	40	<1.6-210	2/10	20.0%
EPH (Total)	250	<10.0	0/1	
Phenols	760 (1)	0.5-1.1	0/10	
Asbestos	No fibres	Amosite/Chrysotile	8/10	80.0%
pH	6-8	5.7-9.0	3/10	30.0%

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(2) DEFRA CLR SGV's withdrawn used for initial comparison

(3) BS 8110 1985 Table 6.1

(4) Category 4 Screening Levels

(5) Unless there is considered to be historical site usage that would result in elemental and methylmercury compounds to be present, the inorganic mercury SGV is used as this is the most prevalent for of mercury present in the natural environment.

9.2.8 Only the sample of made ground from TP05 proved an elevated level of Arsenic of 110 mg/kg, nearly three times the tier 1 trigger level.

9.2.9 Three of the samples of made ground proved elevated levels of Lead ranging from 210-420 mg/kg.

9.2.10 The sample of re-engineered clay from TP29 at a depth of 0.6m proved an elevated level of Sulphide of 400 mg/kg. This is mainly considered a risk to structural steel.

9.2.11 Elevated levels of PAH (Total) or individual PAH compounds were recorded in five of the ten samples, with the highest levels recorded in the made ground from TP07.

9.2.12 Eight of the ten samples proved positive for asbestos in the form of amosite and chrysotile fibre bundles. In addition to this, Amosite and Chrysotile were present in insulation debris.

9.2.13 A single elevated level of sulphate of 0.271% was recorded on site and the pH values are all above 5.7. This corresponds to a design sulphate class DS-2, ACEC class AC-3z, when compared against the BRE Special Digest 1 “Concrete in aggressive ground”.

9.3 QUALITATIVE RISK ASSESSMENT

9.3.1 The Qualitative Risk Assessment is based upon the previously discussed source ► pathway ►receptor principle. In relation to the proposed site these may be described as follows:-

9.3.2 **SOURCE**

i) Elevated levels of Arsenic and Lead.
ii) Elevated levels of PAH (Total) and individual PAH compounds.
iii) Asbestos in the form of Amosite and Chrysotile in 8 of the 10 samples

9.3.3 **PATHWAYS**

i) Ingestion of contamination material.
ii) Inhalation of contaminated particles.
iii) Dermal contact with the known contamination.
iv) Leaching to controlled waters.
v) Ground gas migration.

9.3.4 **RECEPTORS**

i) Residential site users.
ii) Construction and maintenance workers.
iii) Controlled waters.
iv) The building structure.

9.3.5 Each of the receptors will now be appraised and attribute the likely risks involved.

i) Residential site users.

Based on the chemical results obtained it is considered that there is currently a **moderate** risk to end users from ground contamination on-site.

The primary risk to future site residents is from the asbestos encountered within eight of the ten samples taken from site. We would recommend that the contaminated fill material is stripped and removed from the areas of the site where soft landscaping is proposed, to a suitable licensed waste transfer facility. Clean subsoils and topsoils should be imported to the site to provide a 1m thick clean capping layer with a high visibility membrane beneath. In areas where soft landscaping is not proposed, the

contamination pathways to site end users will be severed by the hardstanding floor construction.

During the gas monitoring, a peak maximum carbon dioxide concentration of 2.7% has been recorded. No methane or steady flow rates have been recorded on site. Based on the maximum concentrations of carbon dioxide recorded, the gas regime found on this site can be currently classified as **CS1** by BS 8485:2015+A1:2019 Table 2.

ii) Construction and Maintenance Workers.

It is considered that there is a **moderate** risk to construction and maintenance workers from the redevelopment of the site due to the presence of asbestos. Where excavation works are to be undertaken in asbestos contaminated material, it should be damped first.

Construction workers should always wear PPE including overalls, boots and gloves when handling the contaminated materials onsite. In addition eating, drinking and smoking should be restricted to designated areas where the above hygiene facilities are available.

iii) Controlled Waters

The majority of the site has proven to be underlaid by relatively impermeable re-engineered and natural clays. There has been no historical pollution incidents to controlled waters associated with the site. It is therefore considered unlikely that there is a risk to groundwater and controlled waters from existing contamination on site.

However, an open watercourse is located immediately west of Clough Road on the western boundary, flowing to the south. It is recommended that a temporary works plan is put in place to ensure that no contamination from the development of the site enters the water course.

iv) Building Structures.

Service providers should be forwarded the final validated chemical levels in order for them to provide an accurate specification for the apparatus to be provided. New services should be surrounded and backfilled with clean material to afford some

protection to the apparatus and allow any future maintenance work to be undertaken in clean material.

A single elevated level of sulphate of 0.271% was recorded on site and the pH values are all above 5.7. This corresponds to a design sulphate class DS-2, ACEC class AC-3z, when compared against the BRE Special Digest 1 “Concrete in aggressive ground”.

10.0 CONCLUSIONS AND RECOMMENDATIONS

10.1 GEOTECHNICAL ASSESSMENT

10.1.1 The fieldwork generally proved a significant depth of made ground overlying clays with a mudstone/sandstone bedrock. For initial design purposes we would envisage a safe bearing capacity of 100kN/m^2 where foundations are cited onto firm clays, and 150kN/m^2 where extended onto the underlying mudstone/sandstone.

10.1.2 The fill material is not considered a suitable founding material and foundations must be extended to the natural underlying strata. Due to the depth of fill material encountered on site, there is the possibility that piled foundations will be required. Once site clearance works have commenced, and final plot levels have been finalised for the proposed plots in the north of the site, trial pitting should be undertaken to determine the depth to natural strata from finished floor level and confirm the most cost-effective foundation methods. It should be noted that it is anticipated that site levels will be considerably reduced to adhere to allowable adoptable highway gradients.

10.1.3 BASE OF FILL LESS THAN 2.5m DEEP

10.1.3.1 Where the depth of fill is less than 2.5m deep, we would suggest that the proposed residential properties should be constructed on strip/trench fill footings founded entirely onto the clay strata. Should mudstone/sandstone be encountered within the excavations, the foundations should be deepened to lie entirely onto the mudstone/sandstone strata to avoid differential settlement. The foundation widths will vary dependent upon the line loadings calculated.

10.1.3.2 All foundations should be placed below a line of 45° drawn up from the base of any services or other structures.

10.1.3.3 Where existing foundations or structures are encountered during construction, these should be totally removed from the excavations to enable the new foundations to be constructed without obstructions.

10.1.4 DEPTH TO BASE OF FILL IN EXCESS OF 2.5m OR ADJACENT EXISTING RETAINING WALL

10.1.4.1 If the depth of fill is in excess of 2.5m, in particular where they lie within the infilled former reservoir on site, or where the properties are in close proximity to the existing retaining wall on site, the proposed residential properties should be constructed on piled foundations with a reinforced concrete suspended ground beam. The following general comments relating to piling are provided for guidance, and further advice should be sought from a specialist-piling contractor.

10.1.4.2 Piled foundations should extend and be socketed into the underlying bedrock.

10.1.4.3 It will be necessary to ensure that a minimum pile length of 3m is achieved. Pile records should be checked to ensure that similar pile lengths are achieved throughout a plot and between adjacent structures.

10.1.4.4 The safe working load that may be supported on a pile is dependent on the pile diameter, its founding depth and the method of installation. As piles would be founded in bedrock, they will be essentially end bearing, although there may also be some shaft adhesion within the infilled materials. It is essential that pile design allows for negative skin friction.

10.1.4.5 It is recommended however, that flexible service connections are used on this site, especially where they enter the buildings, in order to avoid any possible damage due to self-settlement of the weak strata once the site is developed.

10.1.4.6 Driven piles may lessen the volume of potentially contaminated made ground requiring off-site disposal, compared with continuous flight auger piled foundations. However, driving can induce some ground vibration. Assessment of any vibration risk to adjacent structures and/or existing site features should be undertaken by pile designer.

10.1.4.7 On completion of the piling works, pile testing should be undertaken to confirm the adequacy and load carrying capacity of the installed piles.

10.1.4.8 Should any shallow obstructions occur, i.e. large boulders, they should either be grubbed-up, or alternatively replacement piles installed. The pile logs should be

checked prior to the piling rig departing site, to ensure consistent pile lengths are installed throughout the site.

10.1.4.9 The new houses can be built off ring beams designed to span the piles. In order to bond them to the piles, the tops of the piles must be tied to the reinforcement within the ground beams. This can be achieved by a variety of methods dependent upon the type of piles adopted.

10.1.4.10 For piled foundations suspended floor slabs should be utilised. A pre-cast 'Beam and Block' concrete ground floor construction could be utilised and suspended across the ring beams.

10.1.5 At present it is not expected that excessive ground water control measures will be required during winter months. Please note that ground water flows can vary throughout the year and a further assessment should be undertaken if construction work is proposed following a prolonged rainfall event.

10.1.6 A single elevated level of sulphate of 0.271% was recorded on site and the pH values are all above 5.7. This corresponds to a design sulphate class DS-2, ACEC class AC-3z, when compared against the BRE Special Digest 1 "Concrete in aggressive ground".

10.1.7 Wherever any foundations are located near existing or proposed new trees, their foundations must be sited below the root growth zone. Reference should be made to the NHBC standards Chapter 4.2 "Building Near Trees" which provides guidance on foundation criteria, depths and construction. All services should be similarly protected. Plasticity testing of the clays on site has shown them to be of **medium** volume change potential.

10.2 GROUND FLOOR SLAB – GAS MEASURES

10.2.1 As discussed previously, gas monitoring stations were installed in five of the window samples undertaken on site.

10.2.2 A maximum carbon dioxide concentration of 2.7% was recorded in WS03. No methane or steady flow rates have been detected in any of the monitoring stations during the monitoring.

10.2.3 Based on the maximum concentrations of carbon dioxide measured, the gas regime found on this site can be currently classified as **CS1** by BS 8485:2015+A1:2019 Table 2.

10.2.4 No Radon Protective Measures are necessary for the development. However, a number of warranty providers consider it good practice to provide basic radon protective measures as standard and they should be consulted at an early stage to confirm their requirements.

10.3 CONTAMINATION ASSESSMENT

10.3.1 The primary risk to future site residents is from the asbestos encountered within eight of the ten samples taken from site. We would therefore recommend that the fill material underlying proposed areas of soft landscaping is stripped and removed from site to accommodate a clean capping layer. A capping layer of at least 1000mm clean subsoils and topsoils should be implemented in areas where fill is to remain. Should the natural underlying strata be exposed during the strip, a minimum of 300mm topsoil will be required to provide a suitable growing medium.

10.3.2 Areas of proposed hardstanding, or where buildings are to be constructed/converted, are unlikely to require remediation, as floor constructions will separate site users from contaminated material.

10.3.3 Should any further suspected areas of contamination be exposed during site strip/construction, an engineer should be contacted to determine if additional chemical testing should be undertaken. The on-site staff should maintain a photographic record and dates of any exposed contaminated material.

10.3.4 As there is no suitable topsoil on site, clean material will be required to be imported to provide a growing medium to areas of soft landscaping on site. All imported material should be tested for the range of contaminants listed previously in Table 3. Only material found to be below published trigger levels should be deemed uncontaminated and accepted for use on site.

10.3.5 If the imported material is from a Greenfield site, a minimum of 3 samples or 1 per 250m3 of imported material should be taken for testing, whichever is greater. If it is

from a brownfield site, a minimum of 6 samples, or 1 per 100m3 of imported material should be taken for testing, whichever is greater. Material provided by a commercial supplier should be certified to the same level of testing, with the certificate less than two months old.

10.3.6 All imported certified material should be placed immediately. If this is not possible, or the material is not certified and sampling is to be carried out prior to being laid, it should be securely stored on site prior to use to prevent possible contamination from any materials on site.

10.3.7 If any areas of made ground are removed off site, they should be taken to a licensed waste site and full documentation should be obtained. Any material to be taken off-site should be suitably quarantined prior to removal to prevent cross contamination. Any relevant chemical test results should be given to the landfill operator, so that they can determine if this material is suitable to be disposed of in their licensed landfill.

11.0 SUGGESTED FURTHER WORK

11.1 Temporary works to be agreed to prevent surface water run-off from site during development contaminating the watercourse to the west of the site.

11.2 Due to the extent of structures and historical foundations remaining on site, some over deepening of foundations will be required. The site would likely benefit from a complete turnover of made/infill ground to establish a platform to suit proposed site levels.

11.3 Remediation method statement detailing removal of contaminated material from site, clean capping layer requirements and validation of remediation works to be prepared.

11.4 Validation of remediation works and preparation of validation report to be undertaken following completion of remedial works.

12.0 APPROVALS

12.1 Proposals for the remediation of contaminated land may require the approval of numerous bodies.

These include:

a) Kirklees Council Environmental Health Department as required by the building and planning regulations.

b) The warranty provider as they will provide the insurance costs to cover the property.

c) The Environment Agency if there are risks of contamination to ground or surface water systems. They will also require notification if material is removed from site and taken to an appropriate tip.

d) Relevant highways and drainage authorities and other service companies may also wish to know about the level of contaminants.

Prepared by



M.Dean. BSc(Hons) HND

Checked by



M. Huddleston. MEng

November 2025

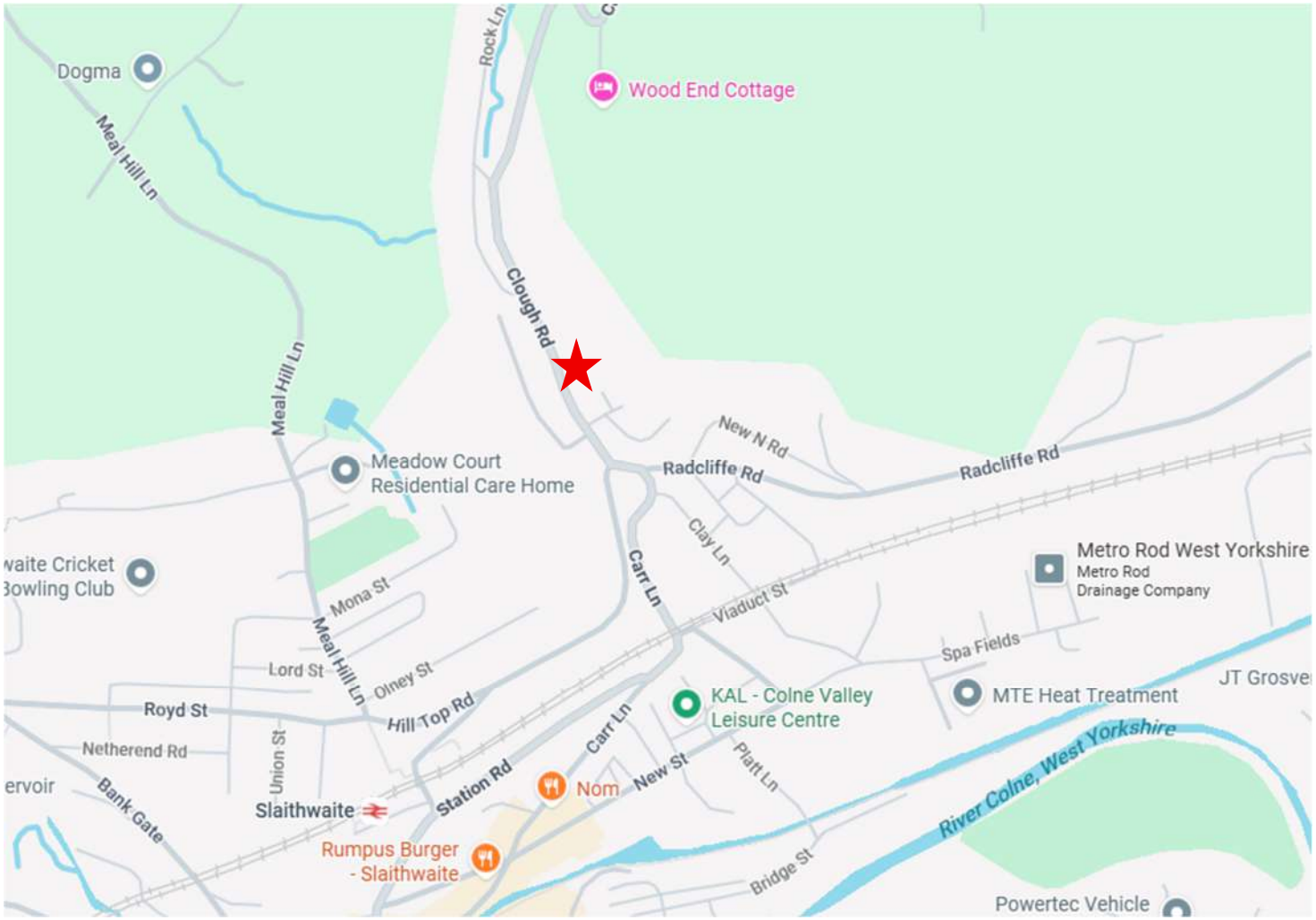
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APPENDIX A

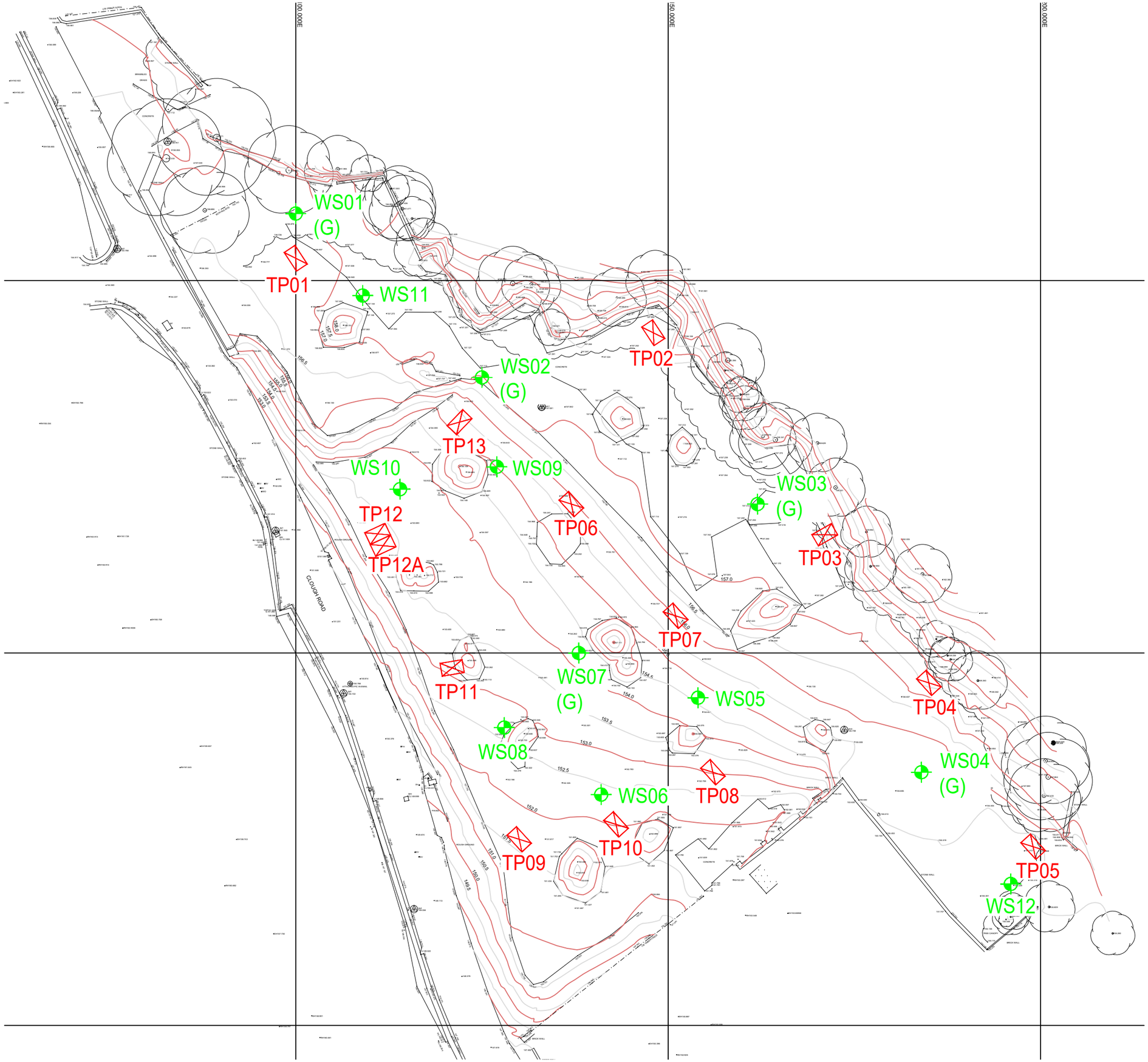
Site Location Plan

Site Investigation Plan

Typical Site Conceptual Model



CLOUGH ROAD
SLAITHWAITE
HUDDERSFIELD
HD7 5BU



-	-	-	-
Rev	Description	Date	Initials

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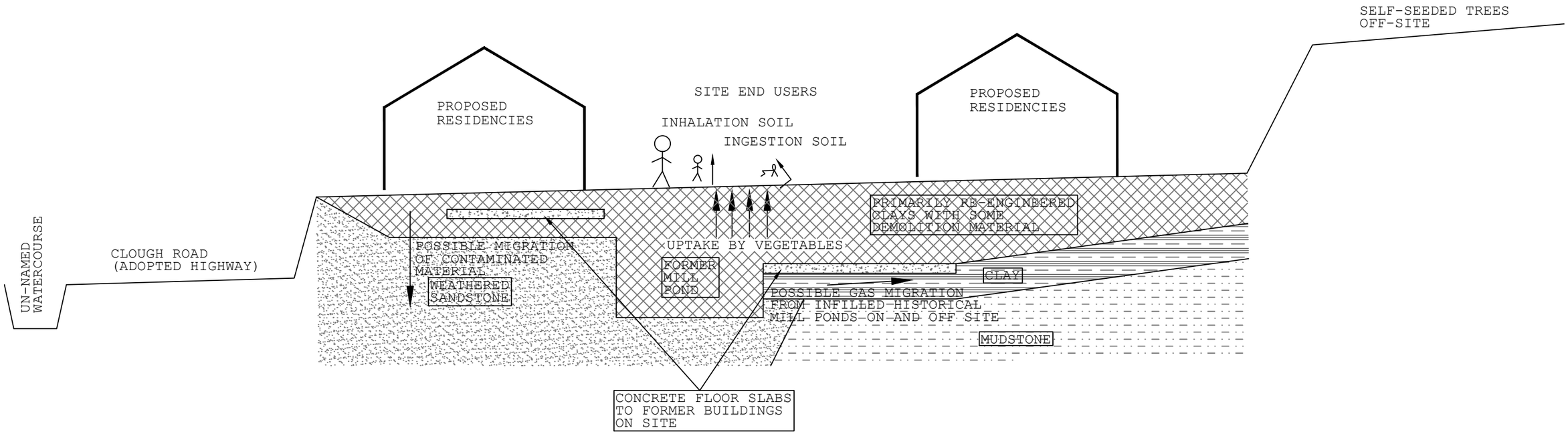
e Martin@haighhuddleston.co.uk

Client
SB HOMES

Project
CLOUGH ROAD, SLAITHWAITE

Detail
SITE INVESTIGATION PLAN

Dwn	Chkd	Date	Scale	Dwg No.
HN	-	JUL 25	1/500 @A3	E24/8187/003



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Client
SB Homes

Project
Clough Road, Slaithwaite

Detail
Typical Site Conceptual Model

Scale	Dwn	Chkd	Date	Dwg No.
NTS	MD		Nov'25	E24/8187/32

APPENDIX B

Trial Hole Logs

Window Sample Logs

TRIAL HOLE NO. 1

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.2	Made ground, soil, fines with occasional brick
0.5		Concrete base of former wash tank NB concrete base 1.5m above Clough Road level
	0.8	Sample taken
1.0		
1.5		
2.0		
2.5		END OF TRIAL PIT
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.8m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 2

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0			
	0.12	Stone flags with screed	
	0.3	Ashy stone subbase	
0.5		Firm brown clay with numerous mudstone gravels	Re-engineered clay to rear of trial pit to a depth of 1.2m
	0.6	Sample taken	
1.0			
	1.1		
1.5			
	1.9		
2.0		Moderately strong dark grey iron-stained shaly mudstone excavated as horizontally bedded shale	
	2.2		
2.5			
3.0			
3.5			
4.0			

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.6m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 3

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.15	(Slab stone flags) Clays and gravels re-engineered
		Re-engineered clays and gravels
	0.3	Sample taken
	0.45	
0.5		Moderately weak dark grey slightly iron stained mudstone excavated as horizontal bedded gravels
	0.8	Land drain 600mm Dia
1.0		
1.5		
		END OF TRIAL PIT
2.0		
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.3m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 4

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.3	Brambles over made ground consisting of clay, gravel stones Sample taken
0.5		
	0.75	
	0.85	Concrete slab (100mm thick)
1.0		Slab sub base clean stone
1.5		Firm dark reddish brown sandy clay
2.0		
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.3m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 5

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
		Brambles over made ground consisting of bricks, stones with some ashy gravels
	0.3	Sample taken
0.5		
1.0		
	1.3	Sample taken
1.5		
		Firm yellowish brown sandy clay
2.0		
2.5		
	2.6	
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.3m and 1.30m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 6

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.3	Made ground material, bricks, stone, ashy gravels (Slightly unstable) Sample taken
0.5		
1.0		
1.5		
	1.6	
	2.6	Moderately weak dark grey iron stained mudstone, excavated as horizontally bedded shale
2.0		
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.3m
Sides of excavation remained stable	NO (0 – 1.6m unstable)
Level	……..

NOTES:

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TRIAL HOLE NO. 7

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.3	Overgrown grass over made ground consisting of bricks and stones with ashy gravels Sample taken
0.5		
1.0		
	1.3	Firm yellowish brown slightly sandy clay [rear of Trial Pit]
1.5		
	1.6	
		Concrete slab from former mill building – unable to excavate
2.0		
2.5		
	2.6	
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 0.3m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 8

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.4	Made ground – loosely consolidated gravels, stones, bricks
0.5		Firm yellowish brown sandy clay (potentially re-engineered)
1.0		
	1.3	
1.5	**1.5**	Weak blueish/ grey mudstone, gravels potentially contaminated with hydrocarbons (no significant odour) Sample taken
2.0		
2.5		
	2.6	
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES 1.5m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 9

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
		Made ground brick Stones, gravels occasional roots, clay pipe
0.5		
1.0		
1.5		
2.0		
		Moderately weak orangish brown horizontal bedded sandstone
	2.3	
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	NO
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 10

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.2	Made ground, re-engineered soils, gravels
		Buried concrete slab (200mm thick)
0.5	**0.5**	Clean stone sub base
1.0		Re-engineered dark brown clay with some gravels and occasional ash
1.5		
2.0		
2.5		
	2.6	
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	NO
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 11

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.3	Made ground backfilled loosely consolidated bricks, soils, stones Sample taken
0.5		
	0.7	
		Firm orangish brown very sandy clay with numerous stones
1.0		
1.5		
	1.7	
	1.9	Moderately strong orangish brown sandstone
2.0		
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES at 0.3m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 12

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
		200mm made ground over 150mm concrete slab
	0.35	Sample at 0.3m
0.5		Re-engineered dark brown slightly sandy clay
1.0		Moderately weak brown shaley mudstone
1.5		Strong light brown horizontally bedded sandstone
2.0		
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	YES at 0.3m
Sides of excavation remained stable	YES
Level	……..

NOTES:

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TRIAL HOLE NO. 12A

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Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
		Made ground re-engineered clays, gravels, stones with occasional ash (Sides unstable)
0.5		
1.0		
1.5		
2.0		
	2.1	
		Moderately strong light brown sandstone
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	NO
Sample taken	NO
Sides of excavation remained stable	NO
Level	……..

NOTES:

……

……

TRIAL HOLE NO. 13

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Client :	**SB HOMES**	**Job No :**	**8187**
Site :	**CLOUGH ROAD, SLAITHWAITE**	**Date :**	**29 July 2025**

0.0		
	0.3	Made ground comprising of loosely consolidated bricks, stone, cooper wire, metal pipes with stone and brick walling Sides of excavation unstable Sample taken
0.5		
1.0		
1.5		
2.0		
	2.1	Moderately strong dark grey horizontally bedded mudstone, slight groundwater seepage
2.5		
3.0		
3.5		
4.0		

REMARKS:

Ground water encountered during excavation	YES
Sample taken	YES at 0.3m
Sides of excavation remained stable	NO
Level	……..

NOTES:

……

……

Borehole No: WS 01

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Rubble, concrete and sandstone			1.0 (1.0)	1	SPT			6,4,4,5,3,4
Brown light brown sandy clay with sandstone			2.2 (1.2)	2	SPT			2,2,1,2,4,7
Grey brown clay with sandstone			2.6 (0.4)	2.7	SPT			25+/50mm 50+/30mm
Grey orange sandstone								REFUSAL

Remarks:

Standpipe installation - 2m slotted, 0.5m plain.

Logged by: DA

Scale:

FIG:

Borehole No: WS 02

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Rubble			0.1 (0.1)					
Brown clay with mudstone and sandstone				1	SPT			2,2,3,3,3,3
				2	SPT			2,2,3,3,6,7
			2.2 (2.1)					
Light brown orange clay with sandstone			2.7 (0.5)	2.7	SPT			14 25+/35mm
								REFUSAL

Remarks:

Standpipe installation - 2m slotted, 0.7m plain.

Logged by: DA

Scale:

FIG:

Borehole No: WS 03

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler

Client: SB HOMES **Date:** 29/07/2025

Site: CLOUGH ROAD, SLAITHWAITE **Job No.** 8187

Co-ordinates:
E:
N:

Ground level:

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Light brown grey clay with brick and sandstone			0.9 (0.9)					
Grey brown clay				1	SPT			2,2,2,3,3,3
				2	SPT			1,1,2,1,2,2
			2.2 (1.3)					
Grey clayey shaley mudstone				3	SPT			3,4,4,7,28, 50+/15mm
			3.0 (0.8)					REFUSAL

Remarks:

Standpipe installation - 3m slotted, 1m plain.
Water at 2.30m

Logged by: DA

Scale:

FIG:

Borehole No: WS 04

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Brick, sandstone and concrete			(0.8)					
			0.8 (0.8)					
Brown clay				1	SPT			3,3,3,2,2,2
			1.5 (0.7)					
Brown grey clay				2	SPT			1,1,1,1,3,3
			3.0 (1.5)	3	SPT			2,2,3,3,5,,9
Grey clay			3.5 (0.5)					
Brown grey claywey shayley mudstone				4	SPT			2,3,3,3,5,5,
			4.8 (1.3)					12,25+/35mm,
Grey shayley mudstone			4.9 (0.1)	4.9	SPT			43, 50+/10mm
								REFUSAL

Remarks:

Standpipe installation - 4m slotted, 0.9m plain.

WATER AT 4m

Logged by: DA

Scale:

FIG:

Borehole No: WS 05

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Dark brown clay with brick and sandstone				1	SPT			3,3,3,2,2,2
`				2	SPT			1,1,1,1,3,3
			2.0 (2.0)					
Brown clay with sandstone			2.2 (0.2)					
Grey clay with sandstone			2.9 (0.7)					3, 7, 18
Grey brown sandstone				3	SPT			50+/30mm
								REFUSAL

Remarks:

Logged by: DA

Scale:

FIG:

Borehole No: WS 06

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:** 29/07/2025	
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.** 8187	
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Dark brown clayey topsoil with brick `			1.0 (0.1)	1	SPT			1,2,4,5,5,7
Brown light brown sandy clay with sandstone			2.0 (0.1)	2	SPT			25+/40mm, 50+/5mm
								REFUSAL

Remarks:

Logged by: DA

Scale:

FIG:

Borehole No: WS07

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Black gravely ash clay brick glass and sandstone								
`				1	SPT			2,5,6,7,8,8
				2	SPT			2,3,5,6,7,7
				3	SPT			25+/55mm 50+/10mm
			3.0 (3.0)					REFUSAL

Remarks:

Standpipe installation - 2m slotted, 0.9m plain.

Logged by: DA

Scale:

FIG:

Borehole No: WS08

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Dark brown grey clay with brick `				1	SPT			1,1,1,1,2,2
			1.2 (1.2)					
Grey light grey brown clay with sandstone			1.7 (0.5)					
Light brown yellow sandstone			1.8 (0.1)	1.8	SPT			25+/50mm 50+/25mm
								REFUSAL

Remarks:

Logged by: DA

Scale:

FIG:

Borehole No: WS09

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:** 29/07/2025	
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.** 8187	
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Dark grey clay with mudstone and sandstone								
`			1.0 (1.0)	1	SPT			25+/30mm,50+/10mm
								REFUSAL

Remarks:	**Logged by: DA**
	Scale:
	FIG:

Borehole No: WS10

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Sandy gravvelly topsoil with cobbles of sandstone			0.8 (0.8)					
Light grey brown mudstone `			1.0 (0.2)	1	SPT			13,25+/50mm 46 50+/5mm
								REFUSAL

Remarks:

Logged by: DA

Scale:

FIG:

Borehole No: WS11

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:**	29/07/2025
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.**	8187
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Dark grey brown sandy clay				1	SPT			1,1,1,0,1,2,
`			1.1 (1.1)					
Light grey brown clay				2	SPT			1,1,1,2,2,4
			2.0 (0.9)					
Dark grey clay with shayley mudstone				2.7	SPT			25+/55mm 50+/40mm
			2.6 (0.6)					REFUSAL

Remarks:

Logged by: DA

Scale:

FIG:

Borehole No: WS12

Haigh Huddleston & Associates
Civil & Structural Engineering Consultants
Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ
t 01924 574074 e info@haighhuddleston.co.uk

Equipment and methods: DART 400 Window Sampler	**Client:** SB HOMES	**Date:** 29/07/2025	
	Site: CLOUGH ROAD, SLAITHWAITE	**Job No.** 8187	
Co-ordinates: E: N:	**Ground level:**		

Description	Reduced level	Legend	Depth (thick)	Sample/Tests				SPT
				Depth	Type	No	Test	
Brown dark brown clay with brick and sandstone			1 1.0 (1.0)	1	SPT			2,1,1,1,1,2
Brown dark brown clay			1.9 (0.9)	2	SPT			1,1,1,2,2,3
Dark brown, brown clay				3				3,5,6,5,5,6
				4	SPT			6,6,6,6,6,7
			4.1 (2.2)					
Dark brown clay with mudstone			4.4 (0.3)					
Dark brown clay weathered mudstone			5.0 (0.6)	5	SPT			6,9,12,17,17,50+/5mm
								REFUSAL

Remarks:

Logged by: DA

Scale:

FIG:

APPENDIX C

Chemical Analysis of Samples

Geotechnical Analysis of Samples

Certificate of Analysis

Certificate Number	25-18036	*Issued:*	27-Aug-25

Client Haigh Huddleston & Associates Ltd
Firth Buildings
99-101 Leeds Road
Dewsbury
WF12 7BU

Our Reference	25-18036
Client Reference ~	5187
Order No ~	(not supplied)
Contract Title ~	Clough Road
Description	10 Soil samples.
Date Received	05-Aug-25
Date Started	05-Aug-25
Date Completed	27-Aug-25
Test Procedures	Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 25-18036
Client Ref ~ 5187
Contract Title ~ Clough Road

	Lab No	2549952	2549953	2549954	2549955	2549956	2549957
	Sample ID ~	TP01	TP04	TP05	TP06	TP06	TP07
	Depth ~	0.80	0.30	0.30	0.30	1.50	0.30
	Other ID ~					CLAY	
	Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampling Date ~	29/07/2025	29/07/2025	29/07/2025	29/07/2025	29/07/2025	29/07/2025
	Sampling Time ~	00PM	00PM	00PM	00PM	00PM	00PM
Test	**Method**	**LOD**	**Units**						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	11	19	110	13	6.8	14
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.4	0.4	0.4	< 0.1	0.4
Chromium	DETSC 2301#	0.15	mg/kg	16	67	31	23	35	25
Copper	DETSC 2301#	0.2	mg/kg	32	70	85	74	29	57
Lead	DETSC 2301#	0.3	mg/kg	150	280	170	210	20	420
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.29	0.20	0.15	< 0.05	0.08
Nickel	DETSC 2301#	1	mg/kg	16	27	34	21	29	21
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	170	130	130	220	53	180
Inorganics									
pH	DETSC 2008#		pH	8.0	7.9	8.8	9.0	5.7	8.0
Thiocyanate	DETSC 2130#	0.6	mg/kg	1.4	4.0	1.0	1.0	1.9	0.8
Total Organic Carbon	DETSC 2084#	0.5	%	6.8	5.6	4.5	6.6	1.2	5.2
Sulphide	DETSC 2024*	10	mg/kg	100	28	92	120	20	60
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	2710	1240	1350	1850	793	1290
Petroleum Hydrocarbons									
EPH >C10-C40	DETSC 3521#	10	mg/kg						
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	0.19	0.18	< 0.10	0.21	< 0.10	6.6
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	0.28	< 0.10	0.19	< 0.10	0.33
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	0.84	< 0.10	0.22	< 0.10	4.9
Fluorene	DETSC 3301	0.1	mg/kg	0.20	0.81	< 0.10	0.32	< 0.10	4.8
Phenanthrene	DETSC 3301	0.1	mg/kg	1.3	6.0	0.70	2.4	< 0.10	34
Anthracene	DETSC 3301	0.1	mg/kg	0.77	1.6	0.24	0.53	< 0.10	6.0
Fluoranthene	DETSC 3301	0.1	mg/kg	2.7	7.4	1.7	4.3	< 0.10	32
Pyrene	DETSC 3301	0.1	mg/kg	2.9	7.2	1.7	4.1	< 0.10	29
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	1.4	3.0	0.85	2.0	< 0.10	11
Chrysene	DETSC 3301	0.1	mg/kg	1.5	3.4	0.83	2.3	< 0.10	13
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	1.4	2.3	0.65	2.6	< 0.10	8.7
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	0.79	1.4	0.39	0.95	< 0.10	4.4
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	1.5	3.2	0.93	2.0	< 0.10	11
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	1.3	2.3	0.58	1.7	< 0.10	7.9
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	0.38	0.45	0.22	0.70	< 0.10	1.2
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	0.93	1.8	0.43	1.8	< 0.10	6.2
PAH 16 Total	DETSC 3301	1.6	mg/kg	21	52	11	31	< 1.6	210
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.8	0.8	0.5	0.7	0.5	1.1

Summary of Chemical Analysis
Soil Samples

Our Ref 25-18036
Client Ref ~ 5187
Contract Title ~ Clough Road

	Lab No	2549958	2549959	2549960	2549961
	Sample ID ~	TP08	TP11	TP12	TP13
	Depth ~	1.50	0.30	0.30	0.30
	Other ID ~				
	Sample Type ~	SOIL	SOIL	SOIL	SOIL
	Sampling Date ~	29/07/2025	29/07/2025	29/07/2025	29/07/2025
	Sampling Time ~	00PM	00PM	00PM	00PM

Test	Method	LOD	Units				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	2.4	8.7	26	13
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.3	0.6	0.3
Chromium	DETSC 2301#	0.15	mg/kg	25	22	24	35
Copper	DETSC 2301#	0.2	mg/kg	21	34	61	65
Lead	DETSC 2301#	0.3	mg/kg	31	110	100	160
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	0.07	0.05
Nickel	DETSC 2301#	1	mg/kg	30	19	20	35
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	43	100	79	170
Inorganics							
pH	DETSC 2008#		pH	6.6	6.9	8.5	8.5
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	2.7	< 0.6	< 0.6
Total Organic Carbon	DETSC 2084#	0.5	%	1.7	4.4	21	5.0
Sulphide	DETSC 2024*	10	mg/kg	< 10	40	36	76
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	459	913	1180	1530
Petroleum Hydrocarbons							
EPH >C10-C40	DETSC 3521#	10	mg/kg	< 10.00			
PAHs							
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	0.43	< 0.10	0.53
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	0.34	< 0.10	0.42
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	0.27	0.14	0.38
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	1.7	0.72	2.7
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	0.36	0.29	0.68
Fluoranthene	DETSC 3301	0.1	mg/kg	0.12	2.0	1.9	3.9
Pyrene	DETSC 3301	0.1	mg/kg	0.11	1.9	1.8	3.7
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	0.90	0.74	1.5
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	0.89	0.94	1.7
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	0.62	0.93	1.3
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	0.37	0.35	0.68
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	0.84	0.92	1.6
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	0.49	0.62	1.3
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	0.20	0.17	0.68
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	0.29	0.42	1.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	14	11	26
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.5	0.6	0.6	0.5

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-18036
Client Ref ~ 5187
Contract Title ~ Clough Road

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2549952	TP01 0.80	SOIL	Amosite	Amosite present as fibre bundles	Ben Barsby
2549953	TP04 0.30	SOIL	Amosite	Amosite present as fibre bundles	Ben Barsby
2549954	TP05 0.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present as fibre bundles	Ben Barsby
2549955	TP06 0.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present as fibre bundles	Ben Barsby
2549956	TP06 CLAY 1.50	SOIL	NAD	none	Ben Barsby
2549957	TP07 0.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present as fibre bundles	Ben Barsby
2549958	TP08 1.50	SOIL	NAD	none	Ben Barsby
2549959	TP11 0.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present as fibre bundles	Ben Barsby
2549960	TP12 0.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present in visible insulation debris & Amosite and Chrysotile present as fibre bundles	Ben Barsby
2549961	TP13 0.30	SOIL	Chrysotile Amosite	Amosite and Chrysotile present as fibre bundles	Ben Barsby

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 25-18036
Client Ref ~ 5187
Contract ~ Clough Road

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2549952	TP01 0.80 SOIL	29/07/25	GJ 250ml, PT 1L		
2549953	TP04 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		
2549954	TP05 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		
2549955	TP06 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		
2549956	TP06 1.50 SOIL	29/07/25	GJ 250ml, PT 1L		
2549957	TP07 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		
2549958	TP08 1.50 SOIL	29/07/25	GJ 250ml, PT 1L		
2549959	TP11 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		
2549960	TP12 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		
2549961	TP13 0.30 SOIL	29/07/25	GJ 250ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub
Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.

Information in Support of the Analytical Results

Our Ref 25-18036
Client Ref ~ 5187
Contract ~ Clough Road

nd -not detected.

End of Report Ver 25.08.02

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SITE:	Clough Road, Slaithwaite
CLIENT:	SB Homes
JOB NO:	8187
SHEET NO:	1

GAS MONITORING RESULTS

	GAS CONCENTRATIONS												FLOW DATA				Qhg per borehole		WELL AND WATER DATA				Comments
Monitoring Point	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Oxygen (%v/v)		H2S (ppm)	CO (ppm)	Hex (%)	PIDCf ()	Flow rate (l/hr)		Differential borehole Pressure (Pa	Time for flow to equalise (secs)	Methane (l/hr)	CO2 (l/hr)	Water level (mbgl)	Depth of well (m)	Response Zone	A Pressure (mB)	
	Peak	Steady	Peak	Steady	Peak	Steady	Min	Steady					Steady	Peak									
AIR	ND	ND	ND	ND	ND	ND	20.6	20.6	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	NR	NR	NR	NR	989	Time: 13:00 Date: 07/08/25
WS01	ND	ND	ND	ND	0.5	0.5	20.4	20.4	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0005	1.90	2.35	1.0-1.90	990	
WS02	ND	ND	ND	ND	0.2	0.2	19.9	19.9	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0002	2.60	2.60	1.0-2.60	989	Sunny, Dry, Warm
WS03	ND	ND	ND	ND	0.9	0.9	19.6	19.6	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0009	2.60	3.05	1.0-2.60	990	**Equalised A.P**
WS04	ND	ND	ND	ND	1.3	1.3	19.6	19.6	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0013	2.40	4.80	1.0-2.40	989	
WS07	ND	ND	ND	ND	0.0	0.0	20.7	20.7	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0	1.30	2.30	1.0-1.30	989	
AIR	ND	ND	ND	ND	ND	ND	21.2	21.2	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	NR	NR	NR	NR	996	Time: 13:30 Date: 19/08/25
WS01	ND	ND	ND	ND	0.7	0.7	19.8	19.8	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0007	1.75	2.35	1.0-1.75	996	
WS02	ND	ND	ND	ND	0.6	0.6	18.3	18.3	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0006	ND	2.60	1.0-2.60	995	Sunny, Dry, Warm
WS03	ND	ND	ND	ND	2.1	2.1	17.4	17.4	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0021	2.75	3.05	1.0-2.75	994	**Equalised A.P**
WS04	ND	ND	ND	ND	2.1	2.1	19.0	19.0	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0021	3.45	4.80	1.0-3.45	994	
WS07	ND	ND	ND	ND	0.4	0.4	20.5	20.5	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0004	ND	2.30	1.0-2.30	995	
AIR	ND	ND	ND	ND	ND	ND	20.8	20.8	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	NR	NR	NR	NR	995	Time: 14:30 Date: 09/09/25
WS01	ND	ND	ND	ND	0.4	0.4	20.5	20.5	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0004	1.80	2.35	1.0-1.80	994	
WS02	ND	ND	ND	ND	0.7	0.7	17.0	17.0	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0007	ND	2.60	1.0-2.60	995	Sunny, Dry, Warm
WS03	ND	ND	ND	ND	2.7	2.7	16.0	16.0	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0027	2.90	3.05	1.0-2.90	994	**Equalised A.P**
WS04	ND	ND	ND	ND	1.7	1.7	19.2	19.2	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0017	3.50	4.80	1.0-3.50	995	
WS07	ND	ND	ND	ND	0.5	0.5	20.4	20.4	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0005	ND	2.30	1.0-2.30	995	
AIR	ND	ND	ND	ND	ND	ND	21.1	21.1	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	NR	NR	NR	NR	989	Time: 14:30 Date: 23/09/25
WS01	ND	ND	ND	ND	0.2	0.2	20.8	20.8	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0002	1.90	2.35	1.0-1.90	990	
WS02	ND	ND	ND	ND	0.4	0.4	18.7	18.7	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0004	ND	2.60	1.0-2.60	989	Sunny, Dry, Warm
WS03	ND	ND	ND	ND	2.3	2.3	14.9	14.9	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0023	2.80	3.05	1.0-2.80	990	**Equalised A.P**
WS04	ND	ND	ND	ND	0.8	0.8	20.1	20.1	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0008	3.40	4.80	1.0-3.40	989	
WS07	ND	ND	ND	ND	0.3	0.3	20.8	20.8	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0003	ND	2.30	1.0-2.30	989	

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AIR	ND	ND	ND	ND	ND	ND	21.2	21.2	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	NR	NR	NR	NR	995	Time: 14:30 Date: 07/10/25
WS01	ND	ND	ND	ND	0.2	0.2	20.7	20.7	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0002	1.80	2.35	1.0-1.80	996	
WS02	ND	ND	ND	ND	0.2	0.2	19.2	19.2	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0002	ND	2.60	1.0-2.60	995	Cloudy, Dry, Warm
WS03	ND	ND	ND	ND	2.2	2.2	15.5	15.5	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0022	2.70	3.05	1.0-2.70	996	**Equalised A.P**
WS04	ND	ND	ND	ND	0.9	0.9	19.9	19.9	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0009	3.30	4.80	1.0-3.30	995	
WS07	ND	ND	ND	ND	0.0	0.0	21.0	21.0	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0	ND	2.30	1.0-2.30	995	
AIR	ND	ND	ND	ND	ND	ND	20.8	20.8	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	NR	NR	NR	NR	982	Time: 14:30 Date: 07/11/25
WS01	ND	ND	ND	ND	0.4	0.4	20.1	20.1	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0004	1.50	2.35	1.0-1.50	982	
WS02	ND	ND	ND	ND	0.2	0.2	17.6	17.6	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0002	2.30	2.60	1.0-2.30	981	Cloudy, Wet, Cold
WS03	ND	ND	ND	ND	2.0	2.0	17.1	17.1	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.002	2.20	3.05	1.0-2.20	980	**Equalised A.P**
WS04	ND	ND	ND	ND	1.3	1.3	19.1	19.1	ND	ND	0.0	1.0	ND	ND	ND	ND	NR	0.0013	2.00	4.80	1.0-2.00	980	
WS07	ND	ND	ND	ND	0.5	0.5	19.9	19.9	ND	ND	0.0	1.0	ND	0.3	ND	1.0	NR	0.0005	2.00	2.30	1.0-2.00	980	

ND - Not detected

NR - Not recorded

NB: where no flow (ND) recorded Qhg values are calculated using equipment limit of detection (0.1 l/hr). Where negative flows recorded, these are converted to positive values for calculation of Qhg.

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Geotechnical
Specialists

RGS

LABORATORY REPORT

job number	C/5406/25/L/8339
date	11/08/2025
site address	Clough Road Huddersfield West Yorkshire HD7 5DB
date scheduled	01/08/2025
date issued	11/08/2025
issued by	E Childs - H J Letch

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Schedule of UKAS Accredited Laboratory Tests

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1. CLASSIFICATION OF SOIL	BS 1377-2:2022	BS EN ISO 17892	Accredited (A)	Unaccredited (U)
1.1 Moisture / Water content determination				
i. Oven drying	Pt 2	BS EN ISO 17892-1:2014+A1:2022	A	
ii. Saturation m/c of chalk	Pt 2 :			U
1.2 Index Properties				
i. Liquid limit – cone penetrometer	Pt 2	**BS EN ISO 17892-12 2018+A2:2022**	A	
ii. Plastic limit	Pt 2	**BS EN ISO 17892-12 2018+A2:2022**	A	
iii. Shrinkage limit	:			U
iv. Linear shrinkage	Pt 2		A	
1.3 Particle Density				
i. Gas jar	Pt 2 :		A	
ii. Large pyknometer	Pt 2			U
iii. Small pyknometer		BS EN SIO 17892-3:2015	A	
1.4 Density Tests				
i. Linear measurement	Pt 2	BS EN ISO 17892-2:2014	A	
ii. Immersion in water	Pt 2	Pt 2 : 2014 : 5.2		U
iii. Fluid / Water displacement	Pt 2	Pt 2 : 2014 : 5.3		U
iv. Sand replacement	Pt 9			U
v. Core cutter	Pt 9			U
1.5 Particle Size Distribution				
i. Dry Sieve	Pt 2	BS EN ISO 17892-4:2016	A	
ii. Wet Sieve	Pt 2	BS EN ISO 17892-4:2016	A	
iii. Sedimentation by pipette	Pt 2	BS EN ISO 17892-4:2016	A	
iv. Sedimentation by hydrometer	Pt 2			U
2. CHEMICAL TESTS	**BS 1377-3:2018**			
ii. Mass loss on ignition	Pt 3 : 4			U
3. COMPACTION RELATED TESTS	**BS 1377-2:2022**			
3.1 Dry density/moisture relationship				
i. 2.5kg rammer – 1 litre mould	Pt 2		A	
- CBR mould	Pt 2		A	
ii. 4.5kg rammer – 1 litre mould	Pt 2		A	
- CBR mould	Pt 2		A	
3.2 Moisture Condition Value				
i. Single point test	Pt 2			U
ii. MCV/moisture content relationship	Pt 2			U
3.3 California Bearing Ratio				
i. Undisturbed sample	Pt 2		A	
ii. Recompacted sample	Pt 2		A	
iii. Soaked, inc measurement of swell	Pt 2		A	
4. COMPRESSIBILITY OF SOIL	**BS 1377-2:2022**			
i. One dimensional consolidation	Pt 2	BS EN ISO 17892-5:2017	A	
ii. Swelling pressure test	Pt 2			U
5. SHEAR STRENGTH OF SOIL	**BS 1377-2:2022**			
i. Hand shear vane	Makers instructions			U
ii. Shear box (100mm square sample)	BS 1377 : Pt 7 : 4			U
iii. Triaxial – quick undrained	BS 1377 : Pt 2	BS EN ISO 17892-8:2018	A	
6. PERMEABILITY				
i. Falling head	K. H. Head Vol 2			U
ii. Constant head	BS 1377 : Pt 6 : 6			U
iii Triaxial cell	BS 1377 : Pt 6 : 6			U
7. ROCK TESTS				
7.1 Classification Tests				
i. Natural moisture content	-			U
ii. Saturated moisture content	-			U
iii. Natural density	-			U
iv. Porosity	-			U
7.2 Strength Tests				
i. Point load index	ISRM '85			U
ii. Uniaxial compression test	ISRM '81			U

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Disclaimer

The results reported herein relate only to the material supplied to the laboratory.

-

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Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
01484 604354 Company No. 5130864

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01484 604354 Company No. 5130864

Summary of Classification Test Results

Project No.	Project Name
C/5406/25/L/8339	Clough Road

Hole No.	Sample				Soil Description	Density bulk Mg/m^3	Density dry Mg/m^3	*w* %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m^3	1pt/4pt	Date	Increase/Decrease
	Ref	Top	Base	Type												
TP05	1	0.00		D	Brown, slightly sandy, silty CLAY.			29	100	49	27	22		1pt	04-Aug	Increase
TP08	2	0.00		D	Brown, slightly sandy, silty CLAY.			41	99	60	31	29		1pt	04-Aug	Increase

All Water Content Tests perfromed to BS EN ISO 17892-1:2014+A1:2022 Unless specified Otherwise
All Index Property testing preformed to BS EN ISO 17892-12 2018+A2:2022 Unless Specified Otherwise
All Liquid Limit Tests performed on a 80g/30 Degree Cone unless specified otherwise

Key

Density test
Linear measurement unless :
wd - water displacement
wi - immersion in water

Liquid Limit
4pt cone unless :
cas - Casagrande method
1pt - single point test

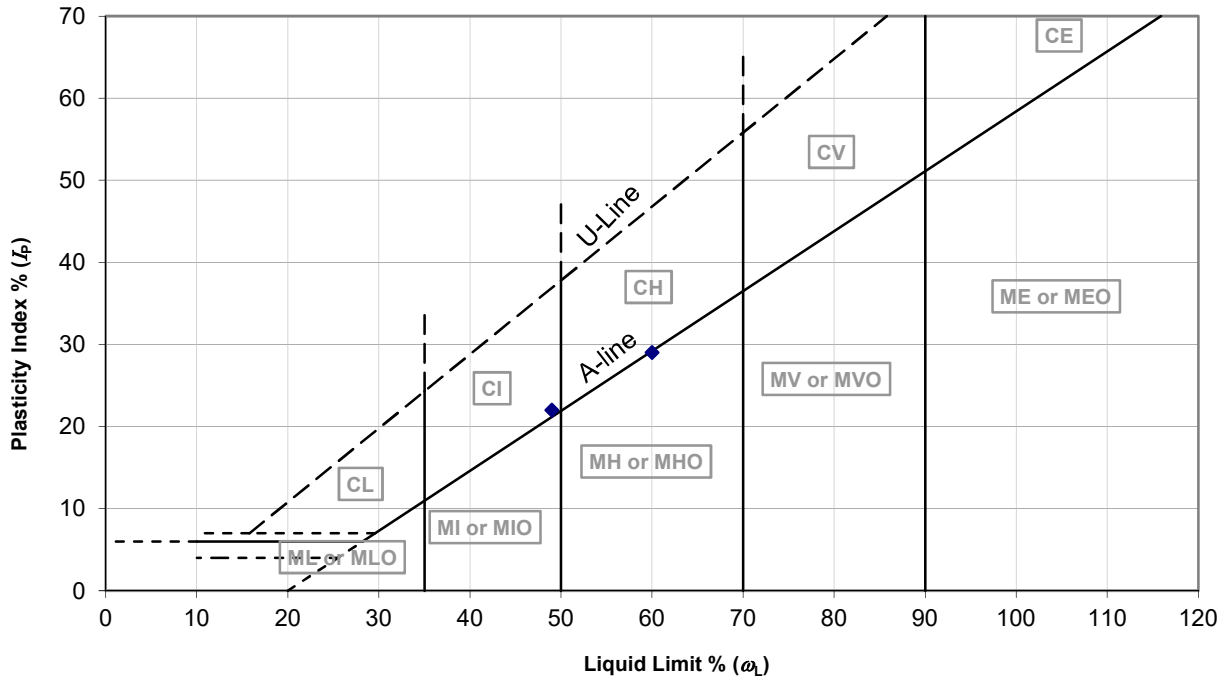
Particle density
sp - small pyknometer
gj - gas jar

Date Printed	Approved By	Table
05/08/2025	EC	1
		sheet 1

Rogers Geotechnical Services Ltd. Offices 1&2, Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU	**Classification of Index Properties**	**C/5406/25/L/8339**
Project Name: Clough Road	**BS 1377-2:2022 Clause 1,5,6**	Fig. 2 / Sheet. 1
Location: Slaithwaite		Input By: EC
Client: Haigh Huddleston & Associates		Check By: EC

Location	Depth (m)	Water Content (ω) (%)	Liquid Limit (ω_L) (%)	Plastic Limit (ω_P) (%)	Plasticity Index (I_P) (%)	Retained by 0.425mm (%)	Modified (ω) (ω') (%)	Modified (I_P) (I_P') (%)	Liquidity/ Consistency (I_L) (%)	Liquidity/ Consistency (I_C) (%)	Casagrande Class	N.H.B.C Class (%)
TP05	0.00	29	49	27	22	0	29	22	0.1	0.9	C I	MEDIUM
TP08	0.00	41	60	31	29	1	41	29	0.3	0.7	M H	MEDIUM

Interpretation graph based on BS EN ISO 14688-2:2018 any interpretations are expressed outside of our UKAS Accreditation.



End of Report

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APPENDIX E

Historical Plans

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

8187 Clough Road

Order Details

Date: 04/08/2025

Your ref: 8187

Our Ref: GS-F4P-7CP-H2C-B9A

Site Details

Location: 408143 414614

Area: 0.87 ha

Authority: Kirklees Council ↗



Summary of findings p. 2 >

OS MasterMap site plan p.14 >

Aerial image p. 9 >

Insight User Guide ↗

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

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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 >	8	1	23	58	-
19 >	1.2 >	Historical tanks >	5	3	7	20	-
20 >	1.3 >	Historical energy features >	0	0	3	8	-
21	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	4	0	-
22	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
23 >	2.1 >	Historical industrial land uses >	10	2	28	71	-
28 >	2.2 >	Historical tanks >	8	3	8	29	-
30 >	2.3 >	Historical energy features >	0	0	6	11	-
31	2.4	Historical petrol stations	0	0	0	0	-
31 >	2.5 >	Historical garages >	0	0	5	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
32	3.1	Active or recent landfill	0	0	0	0	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
33 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	1	-
33	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
33 >	3.5 >	Historical waste sites >	0	0	2	0	-
34 >	3.6 >	Licensed waste sites >	0	0	3	4	-
36 >	3.7 >	Waste exemptions >	0	0	5	9	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
38 >	4.1 >	Recent industrial land uses >	0	0	10	-	-
39	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
39	4.3	Current or recent petrol stations	0	0	0	0	-
40	4.4	Electricity cables	0	0	0	0	-
40	4.5	Gas pipelines	0	0	0	0	-

40	4.6	Sites determined as Contaminated Land	0	0	0	0	-
40	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
40	4.8	Regulated explosive sites	0	0	0	0	-
41	4.9	Hazardous substance storage/usage	0	0	0	0	-
41	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
41 >	**4.11 >**	**Licensed industrial activities (Part A(1)) >**	0	0	5	0	-
42 >	**4.12 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	0	1	-
42	4.13	Radioactive Substance Authorisations	0	0	0	0	-
43 >	**4.14 >**	**Licensed Discharges to controlled waters >**	0	1	0	0	-
43	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.16	Pollutant release to public sewer	0	0	0	0	-
43	4.17	List 1 Dangerous Substances	0	0	0	0	-
44	4.18	List 2 Dangerous Substances	0	0	0	0	-
44 >	**4.19 >**	**Pollution Incidents (EA/NRW) >**	0	1	0	1	-
44	4.20	Pollution inventory substances	0	0	0	0	-
45	4.21	Pollution inventory waste transfers	0	0	0	0	-
45	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
46 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
48 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
50 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
51	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
51	5.5	Groundwater vulnerability- local information	None (within 0m)				
52 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	20
57 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	36
66 >	**5.8 >**	**Potable abstractions >**	0	0	0	0	10
69	5.9	Source Protection Zones	0	0	0	0	-
69	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

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

70 >	6.1 >	Water Network (OS MasterMap) >	0	1	25	-	-
73 >	6.2 >	Surface water features >	0	2	11	-	-
73 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
73 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
74 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
75 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
76	7.2	Historical Flood Events	0	0	0	-	-
76	7.3	Flood Defences	0	0	0	-	-
76	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
76	7.5	Flood Storage Areas	0	0	0	-	-
77 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
78 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	**Surface water flooding >**					
79 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	**Groundwater flooding >**					
81 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
82	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
83	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
83	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
83	10.4	Special Protection Areas (SPA)	0	0	0	0	0
83	10.5	National Nature Reserves (NNR)	0	0	0	0	0
84	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
84 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	1
84	10.8	Biosphere Reserves	0	0	0	0	0
84	10.9	Forest Parks	0	0	0	0	0
85	10.10	Marine Conservation Zones	0	0	0	0	0
85 >	10.11 >	Green Belt >	1	0	0	0	0

85	10.12	Proposed Ramsar sites	0	0	0	0	0
85	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
86	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
86	10.15	Nitrate Sensitive Areas	0	0	0	0	0
86	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
87 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
88	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
89	11.1	World Heritage Sites	0	0	0	-	-
90	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
90	11.3	National Parks	0	0	0	-	-
90 >	11.4 >	Listed Buildings >	0	0	9	-	-
91	11.5	Conservation Areas	0	0	0	-	-
91	11.6	Scheduled Ancient Monuments	0	0	0	-	-
91	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
93	12.2	Open Access Land	0	0	0	-	-
93	12.3	Tree Felling Licences	0	0	0	-	-
93 >	12.4 >	Environmental Stewardship Schemes >	0	0	2	-	-
94 >	12.5 >	Countryside Stewardship Schemes >	0	0	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	13.1 >	Priority Habitat Inventory >	0	0	3	-	-
96	13.2	Habitat Networks	0	0	0	-	-
96	13.3	Open Mosaic Habitat	0	0	0	-	-
96	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
97 >	14.1 >	10k Availability >	Identified (within 500m)				
98 >	14.2 >	Artificial and made ground (10k) >	0	0	4	12	-

100 >	14.3 >	Superficial geology (10k) >	0	1	1	1	-
101 >	14.4 >	Landslip (10k) >	0	0	1	1	-
102 >	14.5 >	Bedrock geology (10k) >	2	2	6	15	-
104 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	2	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
105 >	15.1 >	50k Availability >	Identified (within 500m)				
106 >	15.2 >	Artificial and made ground (50k) >	0	0	1	1	-
107	15.3	Artificial ground permeability (50k)	0	0	-	-	-
108 >	15.4 >	Superficial geology (50k) >	0	1	1	1	-
109 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
109 >	15.6 >	Landslip (50k) >	0	0	1	0	-
109	15.7	Landslip permeability (50k)	None (within 50m)				
110 >	15.8 >	Bedrock geology (50k) >	2	1	3	7	-
111 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
112 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	1	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
113 >	16.1 >	BGS Boreholes >	0	2	0	-	-
Page	Section	**Natural ground subsidence >**					
114 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
116 >	17.2 >	Running sands >	Very low (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	0	1	3	-
126 >	18.2 >	Surface ground workings >	0	0	17	-	-
126	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	1	0
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	-
128	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)				
129	18.14	Gypsum areas	None (within 0m)				
129	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 >	2	4	-	-	-
135	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
136	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
137	22.1	Underground railways (London)	0	0	0	-	-
137	22.2	Underground railways (Non-London)	0	0	0	-	-
138	22.3	Railway tunnels	0	0	0	-	-
138 >	22.4 >	Historical railway and tunnel features >	0	0	6	-	-
138	22.5	Royal Mail tunnels	0	0	0	-	-

139	22.6	Historical railways	0	0	0	-	-
139 >	**22.7 >**	**Railways >**	0	0	6	-	-
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: 0.87ha

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.87ha

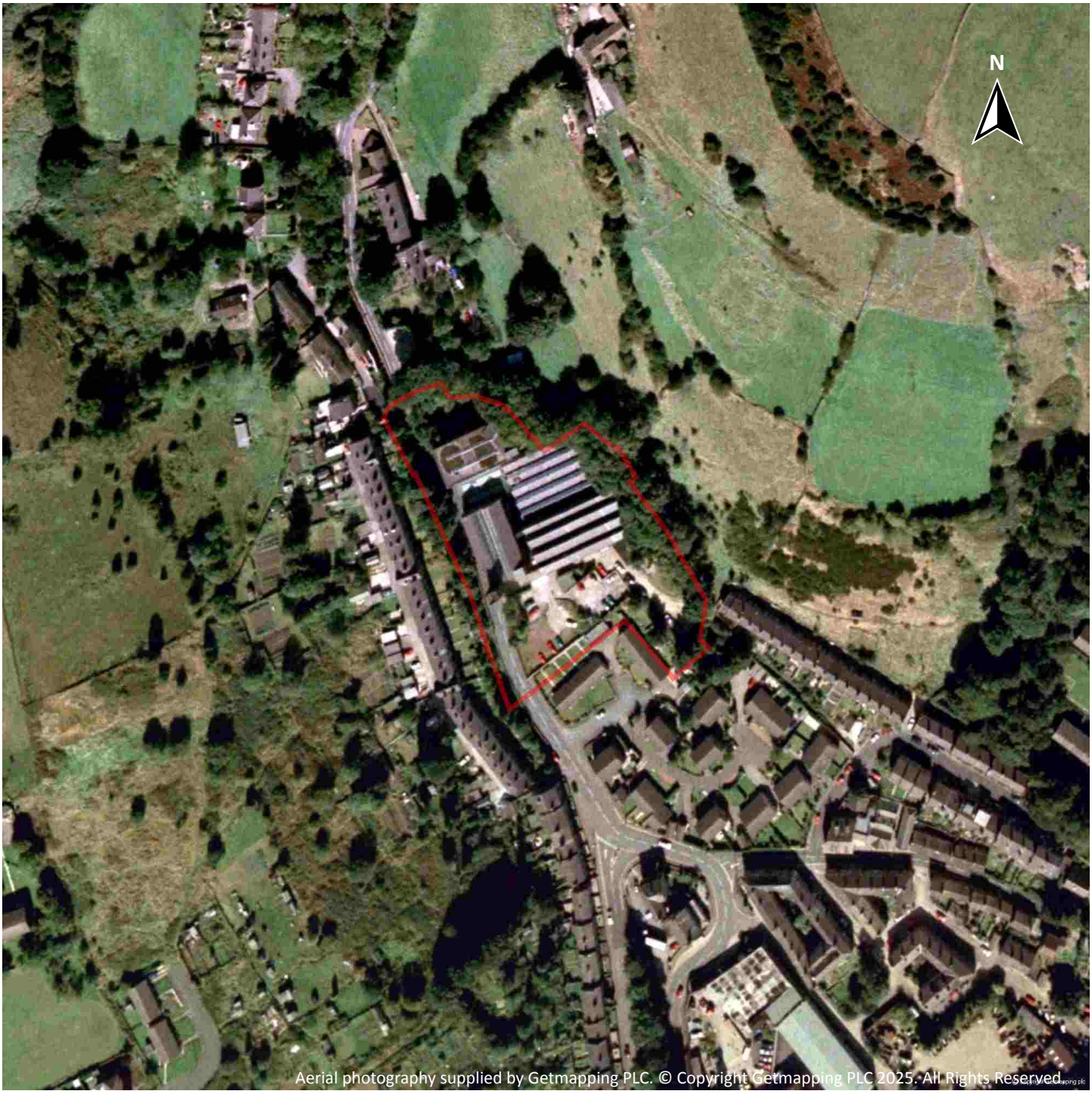
Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.87ha

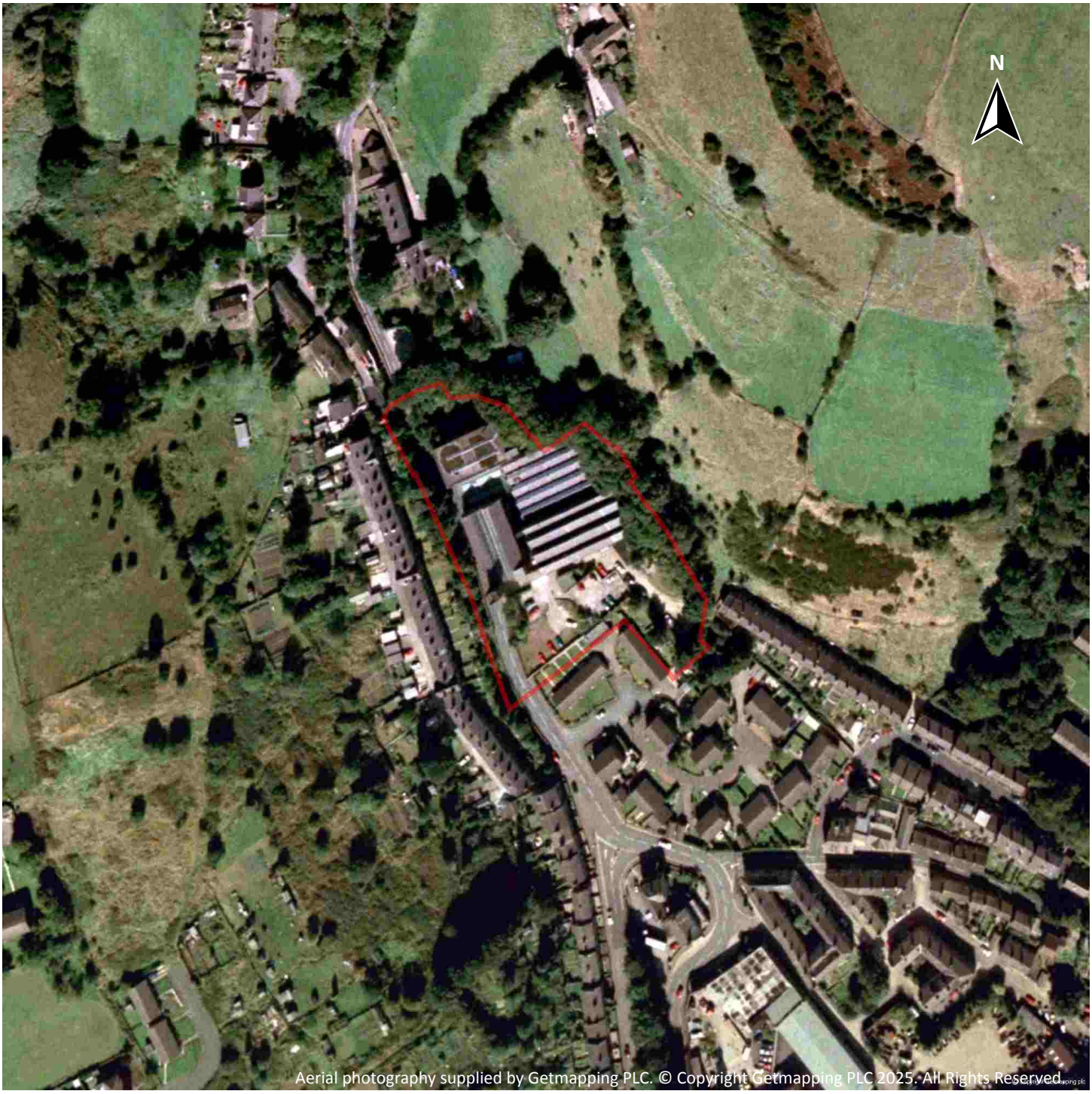
Recent site history - 2000 aerial photograph



Capture Date: 21/09/2000

Site Area: 0.87ha

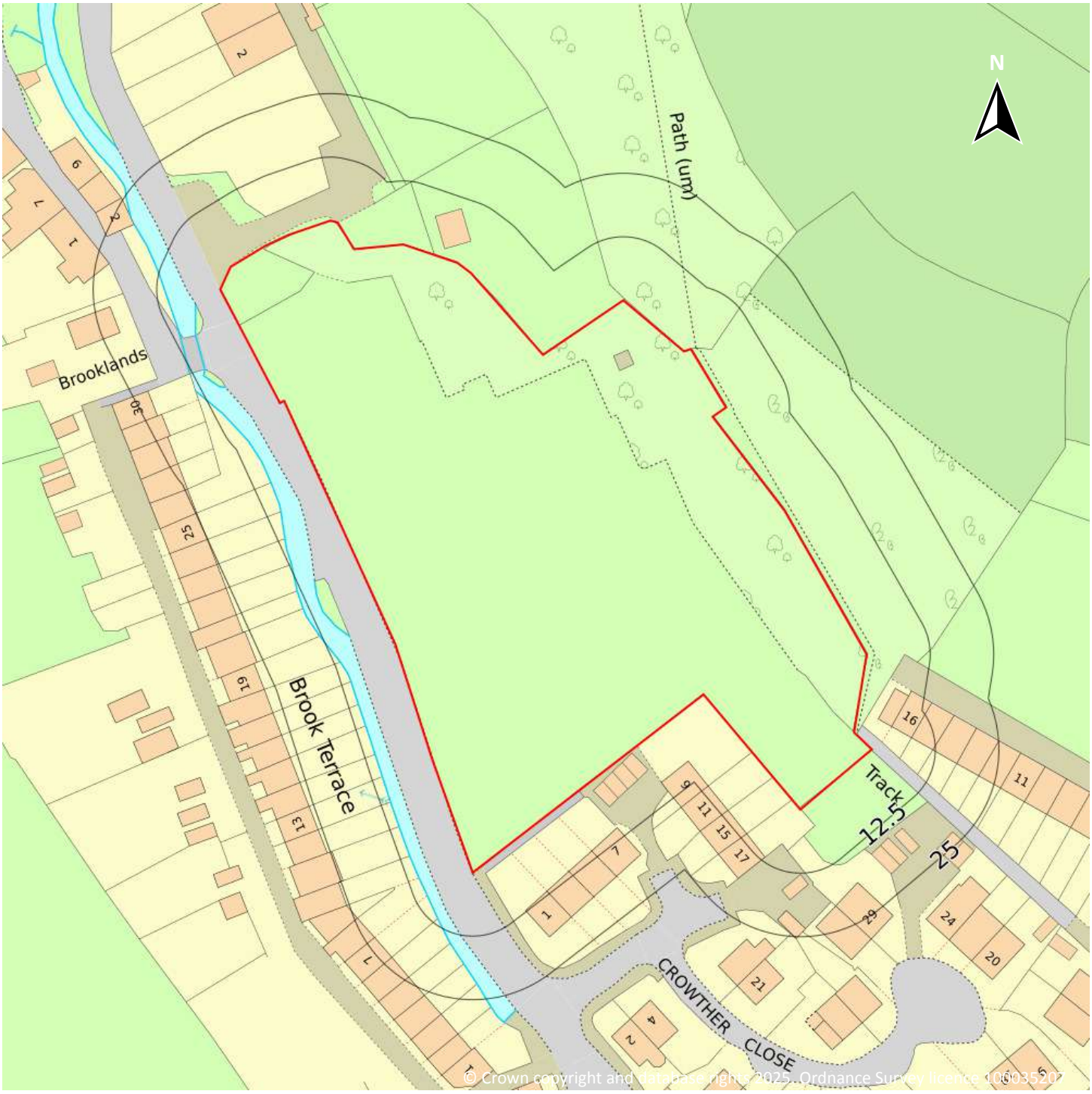
Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

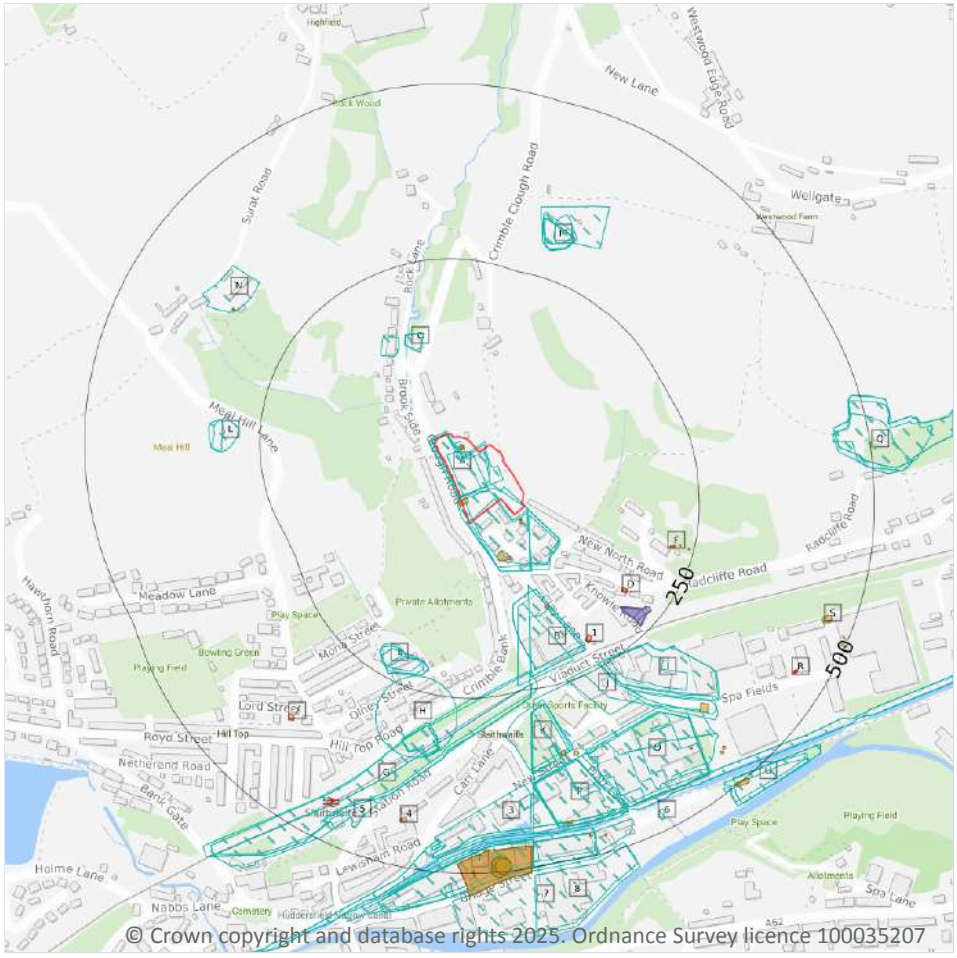
Site Area: 0.87ha

OS MasterMap site plan



Site Area: 0.87ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	90

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

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

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Old Silk Mill**	**1890**	**1479579**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Mill**	**1930 - 1948**	**1486830**
A	**On site**	**Unspecified Mills**	**1890**	**1499540**
A	**On site**	**Unspecified Mills**	**1978**	**1555162**
A	**On site**	**Unspecified Mill**	**1978**	**1565961**
A	**On site**	**Unspecified Mills**	**1904**	**1575688**
A	**On site**	**Unspecified Mills**	**1904 - 1948**	**1577497**
A	**On site**	**Unspecified Mills**	**1955**	**1579201**
A	14m SE	Unspecified Mill	1930	1576974
B	103m S	Unspecified Mill	1930 - 1948	1529557
B	111m S	Unspecified Mills	1978	1445947
B	111m S	Unspecified Mill	1955	1534019
C	124m N	Vine Yard	1904	1492751
C	124m N	Vine Yard	1948	1534813
B	127m S	Unspecified Mill	1891	1448373
C	133m NW	Vine Yard	1955	1455205
B	143m S	Unspecified Mill	1905	1491036
E	201m SW	Unspecified Pits	1955	1477633
E	204m SW	Refuse Heap	1930	1539919
E	205m SW	Unspecified Quarry	1890 - 1904	1497002
E	205m SW	Unspecified Ground Workings	1948	1517806
E	207m S	Unspecified Ground Workings	1930	1547618
G	224m S	Railway Sidings	1955	1551190
G	226m S	Railway Sidings	1930 - 1948	1488604
H	228m S	Railway Station	1890	1519441
G	243m S	Railway Sidings	1904	1530660
G	243m S	Railway Sidings	1890	1542995
I	244m SE	Sewage Works	1948	1532251
J	244m SE	Unspecified Works	1978	1460166

ID	Location	Land use	Dates present	Group ID
I	246m SE	Sewage Works	1930	1548311
I	246m SE	Engineering Works	1978	1479000
J	250m SE	Sewage Works	1891	1470502
K	267m S	Unspecified Mill	1955	1579146
K	273m S	Spinning Mills	1905	1433915
K	273m S	Unspecified Mill	1948	1508536
K	275m S	Unspecified Mill	1930	1582312
L	281m W	Unspecified Pit	1968 - 1978	1506634
I	290m SE	Sewage Works	1955	1569333
M	291m N	Unspecified Heap	1930	1496755
M	291m N	Unspecified Heap	1905	1509829
M	291m N	Unspecified Heap	1948	1564023
H	292m S	Railway Station	1948 - 1955	1553610
H	295m S	Railway Station	1904	1529389
H	295m S	Railway Station	1930	1506733
M	297m N	Water Works	1955	1462956
I	299m SE	Sewage Works	1905	1553522
M	300m N	Unspecified Heap	1955	1553381
L	300m W	Unspecified Quarry	1930	1464011
M	302m N	Unspecified Ground Workings	1978	1439104
N	333m NW	Poultry Houses	1968	1432628
N	340m NW	Unspecified Tank	1968	1472471
O	341m SE	Unspecified Mill	1955 - 1978	1506381
O	345m SE	Unspecified Mill	1948	1568643
O	347m SE	Unspecified Mill	1930	1501194
O	348m SE	Unspecified Mill	1905	1551450
P	359m S	Spinning Mills	1948	1523805
P	359m S	Spinning Mills	1905	1574004

ID	Location	Land use	Dates present	Group ID
P	360m S	Unspecified Mill	1955	1561829
P	361m S	Unspecified Mills	1978	1445963
P	369m S	Unspecified Mill	1930	1499421
O	375m SE	Unspecified Mills	1891	1445955
3	381m S	Unspecified Mills	1930 - 1948	1515508
P	388m S	Unspecified Mill	1905	1513253
P	396m S	Fire Station	1978	1443113
5	433m S	Railway Building	1930	1475696
P	443m S	Disused Canal	1955	1506762
P	443m S	Disused Canal	1978	1580275
Q	448m E	Unspecified Quarry	1905	1482321
Q	448m E	Unspecified Quarry	1930 - 1948	1544275
Q	452m E	Unspecified Disused Quarry	1978	1461131
Q	452m E	Unspecified Quarry	1955	1573210
T	455m S	Unspecified Mills	1955	1558619
T	458m S	Unspecified Mills	1930 - 1948	1580662
T	460m S	Unspecified Commercial/Industrial	1904	1544724
T	460m S	Unspecified Commercial/Industrial	1890	1582453
T	461m S	Unspecified Mills	1978	1519739
P	463m S	Unspecified Works	1978	1460167
P	464m S	Spinning Mills	1905	1433914
P	464m S	Unspecified Mills	1930 - 1948	1577878
6	470m SE	Unspecified Tank	1948 - 1955	1545689
T	473m S	Unspecified Tank	1955 - 1978	1564679
T	476m S	Unspecified Tank	1890 - 1904	1551555
T	476m S	Unspecified Tank	1948	1554687
T	479m S	Unspecified Tank	1930	1538764
U	486m SE	Sewage Works	1955	1566885

ID	Location	Land use	Dates present	Group ID
U	489m SE	Sewage Works	1905	1538417
U	489m SE	Sewage Works	1948	1543753
U	493m SE	Sewage Works	1930	1544927
7	493m S	Unspecified Mills	1955	1490855
8	498m S	Unspecified Mills	1930	1495070

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**35**

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
A	**On site**	**Tanks**	**1906 - 1932**	**245942**
A	**On site**	**Unspecified Tank**	**1977**	**248444**
A	**On site**	**Unspecified Tank**	**1992 - 1996**	**253493**
A	**On site**	**Unspecified Tank**	**1968**	**253839**
A	**On site**	**Unspecified Tank**	**1990**	**255900**
A	10m SE	Tanks	1977	255177
A	10m SE	Tanks	1968	255621
A	14m SE	Tanks	1977	234722
A	54m S	Tanks	1932	234715
F	215m E	Unspecified Tank	1918	260716
F	218m E	Unspecified Tank	1990	251763
F	220m E	Unspecified Tank	1968	249348
F	220m E	Unspecified Tank	1977	254559

ID	Location	Land use	Dates present	Group ID
F	228m E	Unspecified Tank	1906	239892
F	241m E	Unspecified Tank	1906	239893
N	340m NW	Unspecified Tank	1968	239900
K	344m S	Unspecified Tank	1892	239891
K	349m S	Unspecified Tank	1906	239894
I	377m SE	Tanks	1918	234724
O	416m SE	Unspecified Tank	1892	239890
4	429m S	Unspecified Tank	1906 - 1932	244859
P	444m S	Tanks	1918	234725
O	445m SE	Tanks	1892	234720
O	448m SE	Tanks	1892	234721
S	455m E	Unspecified Tank	1990 - 1996	248734
T	468m S	Gas Works	1892 - 1906	251962
P	469m S	Unspecified Tank	1892	239889
P	474m S	Unspecified Tank	1906	239895
T	479m S	Unspecified Tank	1932	254525
T	479m S	Gasometer	1892 - 1906	257889
T	480m S	Gasholder	1968	236587
T	480m S	Unspecified Tank	1977	244416
S	490m SE	Tanks	1990 - 1996	249051
T	496m S	Unspecified Tank	1968	239896
U	497m SE	Tanks	1918	234726

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	11

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
B	136m S	Electricity Substation	1992 - 1996	147983
D	182m SE	Electricity Substation	1992 - 1996	149918
1	201m SE	Electricity Substation	1992 - 1996	146383
2	370m SW	Electricity Substation	1992 - 1994	155362
R	450m SE	Electricity Substation	1990	154785
R	450m SE	Electricity Substation	1990	161998
R	452m SE	Electricity Substation	1996	147085
R	452m SE	Electricity Substation	1992	150784
T	468m S	Gas Works	1892 - 1906	156775
T	479m S	Gasometer	1892 - 1906	157359
T	480m S	Gasholder	1968	142077

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	4

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
D	198m SE	Garage	1992	49870
D	199m SE	Garage	1996	52085
D	201m SE	Garage	1977	48126
D	202m SE	Garage	1990	46873

This data is sourced from Ordnance Survey / Groundsure.

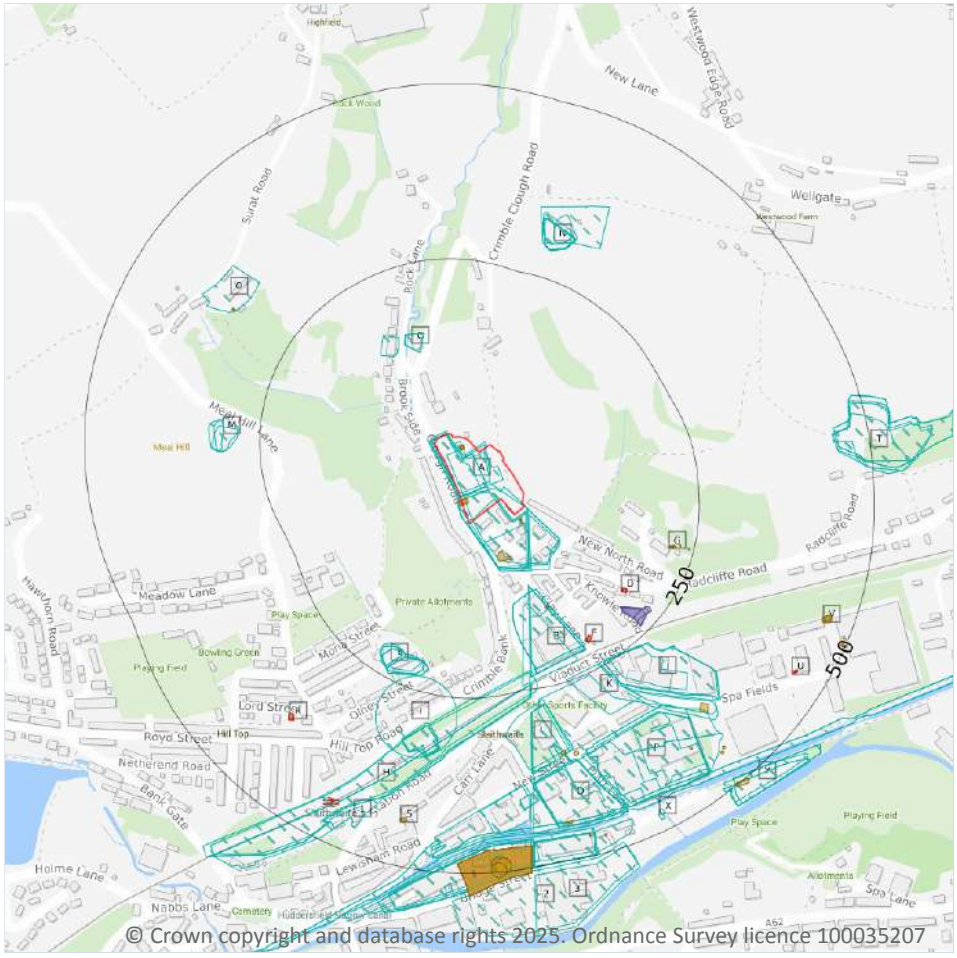
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	111

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 23 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mills**	**1978**	**1555162**
A	**On site**	**Unspecified Mill**	**1978**	**1565961**
A	**On site**	**Unspecified Mill**	**1948**	**1486830**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mills**	**1948**	**1577497**
A	**On site**	**Unspecified Mills**	**1904**	**1575688**
A	**On site**	**Unspecified Mills**	**1904**	**1577497**
A	**On site**	**Unspecified Mills**	**1955**	**1579201**
A	**On site**	**Unspecified Mill**	**1930**	**1486830**
A	**On site**	**Unspecified Mills**	**1930**	**1577497**
A	**On site**	**Old Silk Mill**	**1890**	**1479579**
A	14m SE	Unspecified Mill	1930	1576974
A	18m SE	Unspecified Mills	1890	1499540
B	103m S	Unspecified Mill	1948	1529557
B	106m S	Unspecified Mill	1930	1529557
B	111m S	Unspecified Mills	1978	1445947
B	111m S	Unspecified Mill	1955	1534019
C	124m N	Vine Yard	1948	1534813
C	124m N	Vine Yard	1904	1492751
B	128m S	Unspecified Mill	1891	1448373
C	133m NW	Vine Yard	1955	1455205
B	143m S	Unspecified Mill	1905	1491036
E	201m SW	Unspecified Pits	1955	1477633
E	204m SW	Refuse Heap	1930	1539919
E	204m SW	Refuse Heap	1930	1539919
E	205m SW	Unspecified Quarry	1904	1497002
E	205m SW	Unspecified Quarry	1890	1497002
E	205m SW	Unspecified Ground Workings	1948	1517806
E	207m S	Unspecified Ground Workings	1930	1547618
E	207m S	Unspecified Ground Workings	1930	1547618
H	224m S	Railway Sidings	1955	1551190
H	226m S	Railway Sidings	1930	1488604

ID	Location	Land Use	Date	Group ID
I	228m S	Railway Station	1890	1519441
H	243m S	Railway Sidings	1948	1488604
H	243m S	Railway Sidings	1904	1530660
H	243m S	Railway Sidings	1890	1542995
J	244m SE	Sewage Works	1948	1532251
K	244m SE	Unspecified Works	1978	1460166
J	246m SE	Sewage Works	1930	1548311
J	246m SE	Sewage Works	1930	1548311
J	246m SE	Engineering Works	1978	1479000
K	253m SE	Sewage Works	1891	1470502
L	267m S	Unspecified Mill	1955	1579146
L	273m S	Unspecified Mill	1948	1508536
L	273m S	Spinning Mills	1905	1433915
L	275m S	Unspecified Mill	1930	1582312
M	281m W	Unspecified Pit	1968	1506634
M	282m W	Unspecified Pit	1978	1506634
J	290m SE	Sewage Works	1955	1569333
N	291m N	Unspecified Heap	1930	1496755
N	291m N	Unspecified Heap	1930	1496755
N	291m N	Unspecified Heap	1948	1564023
N	291m N	Unspecified Heap	1905	1509829
I	292m S	Railway Station	1955	1553610
I	295m S	Railway Station	1948	1553610
I	295m S	Railway Station	1904	1529389
I	295m S	Railway Station	1930	1506733
N	297m N	Water Works	1955	1462956
J	299m SE	Sewage Works	1905	1553522
N	300m N	Unspecified Heap	1955	1553381

ID	Location	Land Use	Date	Group ID
M	300m W	Unspecified Quarry	1930	1464011
N	302m N	Unspecified Ground Workings	1978	1439104
O	333m NW	Poultry Houses	1968	1432628
O	340m NW	Unspecified Tank	1968	1472471
P	341m SE	Unspecified Mill	1978	1506381
P	341m SE	Unspecified Mill	1955	1506381
P	345m SE	Unspecified Mill	1948	1568643
P	347m SE	Unspecified Mill	1930	1501194
P	348m SE	Unspecified Mill	1905	1551450
Q	359m S	Spinning Mills	1948	1523805
Q	359m S	Spinning Mills	1905	1574004
Q	360m S	Unspecified Mill	1955	1561829
Q	361m S	Unspecified Mills	1978	1445963
Q	369m S	Unspecified Mill	1930	1499421
P	378m SE	Unspecified Mills	1891	1445955
Q	381m S	Unspecified Mills	1930	1515508
Q	383m S	Unspecified Mills	1948	1515508
Q	388m S	Unspecified Mill	1905	1513253
Q	396m S	Fire Station	1978	1443113
1	433m S	Railway Building	1930	1475696
Q	443m S	Disused Canal	1978	1580275
Q	443m S	Disused Canal	1955	1506762
T	448m E	Unspecified Quarry	1905	1482321
T	448m E	Unspecified Quarry	1948	1544275
T	449m E	Unspecified Quarry	1930	1544275
T	452m E	Unspecified Disused Quarry	1978	1461131
T	452m E	Unspecified Quarry	1955	1573210
W	455m S	Unspecified Mills	1955	1558619

ID	Location	Land Use	Date	Group ID
W	458m S	Unspecified Mills	1930	1580662
W	460m S	Unspecified Mills	1948	1580662
W	460m S	Unspecified Commercial/Industrial	1904	1544724
W	460m S	Unspecified Commercial/Industrial	1890	1582453
W	461m S	Unspecified Mills	1978	1519739
Q	463m S	Unspecified Works	1978	1460167
Q	464m S	Unspecified Mills	1948	1577878
Q	464m S	Spinning Mills	1905	1433914
Q	467m S	Unspecified Mills	1930	1577878
X	470m SE	Unspecified Tank	1955	1545689
W	473m S	Unspecified Tank	1978	1564679
W	473m S	Unspecified Tank	1955	1564679
X	475m SE	Unspecified Tank	1948	1545689
W	476m S	Unspecified Tank	1948	1554687
W	476m S	Unspecified Tank	1904	1551555
W	476m S	Unspecified Tank	1890	1551555
W	479m S	Unspecified Tank	1930	1538764
Y	486m SE	Sewage Works	1955	1566885
Y	489m SE	Sewage Works	1948	1543753
Y	489m SE	Sewage Works	1905	1538417
Y	493m SE	Sewage Works	1930	1544927
Y	493m SE	Sewage Works	1930	1544927
2	493m S	Unspecified Mills	1955	1490855
3	498m S	Unspecified Mills	1930	1495070

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	48

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 23 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Tanks**	**1906**	**245942**
A	**On site**	**Tanks**	**1932**	**245942**
A	**On site**	**Unspecified Tank**	**1968**	**253839**
A	**On site**	**Unspecified Tank**	**1992**	**253493**
A	**On site**	**Unspecified Tank**	**1977**	**248444**
A	**On site**	**Unspecified Tank**	**1990**	**255900**
A	**On site**	**Unspecified Tank**	**1990**	**255900**
A	**On site**	**Unspecified Tank**	**1996**	**253493**
A	10m SE	Tanks	1968	255621
A	10m SE	Tanks	1977	255177
A	14m SE	Tanks	1977	234722
A	54m S	Tanks	1932	234715
G	215m E	Unspecified Tank	1918	260716
G	218m E	Unspecified Tank	1990	251763
G	218m E	Unspecified Tank	1990	251763
G	220m E	Unspecified Tank	1968	249348
G	220m E	Unspecified Tank	1977	254559
G	228m E	Unspecified Tank	1906	239892
G	241m E	Unspecified Tank	1906	239893
O	340m NW	Unspecified Tank	1968	239900
L	344m S	Unspecified Tank	1892	239891
L	349m S	Unspecified Tank	1906	239894
J	377m SE	Tanks	1918	234724

ID	Location	Land Use	Date	Group ID
P	416m SE	Unspecified Tank	1892	239890
S	429m S	Unspecified Tank	1906	244859
S	429m S	Unspecified Tank	1932	244859
Q	444m S	Tanks	1918	234725
P	445m SE	Tanks	1892	234720
P	448m SE	Tanks	1892	234721
V	455m E	Unspecified Tank	1990	248734
V	455m E	Unspecified Tank	1990	248734
V	457m E	Unspecified Tank	1996	248734
V	458m E	Unspecified Tank	1992	248734
W	468m S	Gas Works	1892	251962
W	468m S	Gas Works	1906	251962
Q	469m S	Unspecified Tank	1892	239889
Q	474m S	Unspecified Tank	1906	239895
W	479m S	Gasometer	1906	257889
W	479m S	Unspecified Tank	1932	254525
W	480m S	Gasholder	1968	236587
W	480m S	Unspecified Tank	1977	244416
W	486m S	Gasometer	1892	257889
V	490m SE	Tanks	1990	249051
V	490m SE	Tanks	1990	249051
V	493m SE	Tanks	1996	249051
V	493m SE	Tanks	1992	249051
W	496m S	Unspecified Tank	1968	239896
Y	497m SE	Tanks	1918	234726

This data is sourced from Ordnance Survey / Groundsure.

2.3 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. 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 23 >**

ID	Location	Land Use	Date	Group ID
B	136m S	Electricity Substation	1992	147983
B	138m S	Electricity Substation	1996	147983
D	182m SE	Electricity Substation	1992	149918
D	183m SE	Electricity Substation	1996	149918
F	201m SE	Electricity Substation	1992	146383
F	202m SE	Electricity Substation	1996	146383
R	370m SW	Electricity Substation	1994	155362
R	371m SW	Electricity Substation	1992	155362
U	450m SE	Electricity Substation	1990	154785
U	450m SE	Electricity Substation	1990	161998
U	452m SE	Electricity Substation	1996	147085
U	452m SE	Electricity Substation	1992	150784
W	468m S	Gas Works	1892	156775
W	468m S	Gas Works	1906	156775
W	479m S	Gasometer	1906	157359
W	480m S	Gasholder	1968	142077
W	486m S	Gasometer	1892	157359

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	5

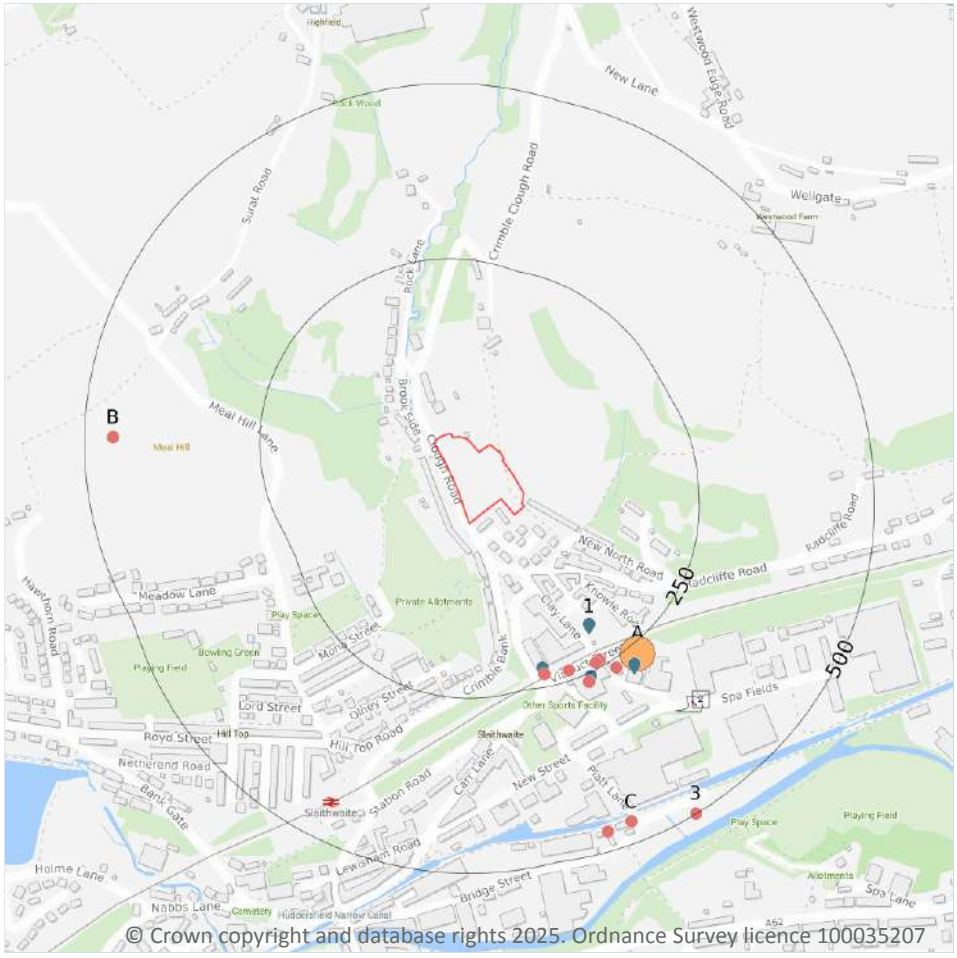
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23 >**

ID	Location	Land Use	Date	Group ID
D	198m SE	Garage	1992	49870
D	199m SE	Garage	1996	52085
D	201m SE	Garage	1977	48126
D	202m SE	Garage	1990	46873
D	202m SE	Garage	1990	46873

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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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	1

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

Features are displayed on the Waste and landfill map on **page 32 >**

ID	Location	Site address	Source	Data type
2	356m SE	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 32 >**

ID	Location	Address	Further Details	Date
A	240m SE	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	240m SE	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 32 >**

ID	Location	Details		
1	192m SE	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	225m S	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

ID	Location	Details		
A	225m S	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
A	258m SE	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	258m SE	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
A	276m SE	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	276m SE	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.

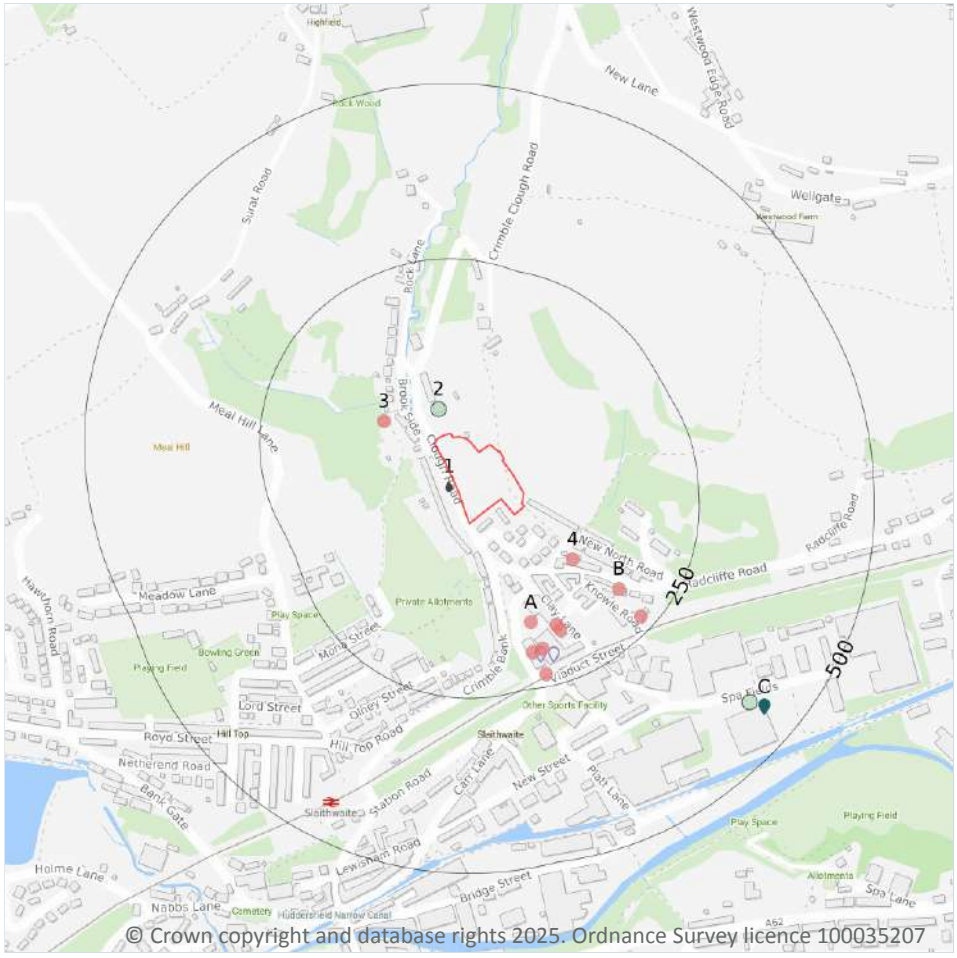
Features are displayed on the Waste and landfill map on **page 32 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	232m S	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	236m S	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	241m SE	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
A	241m SE	Bowkers, Clayfield Works, London Road, Huddersfield, Hd7 5bg	WEX166191	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	241m SE	-	WEX353180	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
A	262m SE	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

ID	Location	Site	Reference	Category	Sub-Category	Description
A	262m SE	Bowkers, Clayfield Works, London Road, Huddersfield, Hd7 5bg	WEX300249	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	263m SE	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	263m SE	Clayfield Works, Clay Lane, Slaithwaite, Huddersfield, Hd7 5bg	WEX005691	Disposing of waste exemption	Not on a farm	Disposal by incineration
B	460m W	-	WEX413498	Storing waste exemption	On a farm	Storage of sludge
B	460m W	-	WEX440866	Storing waste exemption	On a farm	Storage of sludge
C	469m S	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
C	472m S	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
3	499m 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



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4.1 Recent industrial land uses

Records within 250m	10

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Company	Address	Activity	Category
3	79m NW	H W Gledhill	Brook Side, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BZ	Vehicle Repair, Testing and Servicing	Repair and Servicing
4	103m SE	Crimble Precision Industries Ltd	114, Radcliffe Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BN	Industrial Coatings and Finishings	Industrial Products

ID	Location	Company	Address	Activity	Category
A	156m S	Works	West Yorkshire, HD7	Unspecified Works Or Factories	Industrial Features
A	168m S	Bower Skip Hire Ltd	Clayfield Works, London Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Construction and Tool Hire	Hire Services
A	177m S	D M Textile Machinery Ltd	Brooks Mill, Clay Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	General Purpose Machinery	Industrial Products
B	180m SE	Colne Valley Decking & Fencing	301, Radcliffe Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BN	Garden Goods	Consumer Products
A	195m S	Process Measurement & Analysis	Brook Mills House, Clay Lane, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BG	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
A	199m S	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
B	228m SE	Knowle Garage	Knowle Road, Slaithwaite, Huddersfield, West Yorkshire, HD7 5BH	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	233m S	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

This data is sourced from Ordnance Survey.

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

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey NGD.

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.11 Licensed industrial activities (Part A(1))

Records within 500m	5

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 38 >**

ID	Location	Details	
A	203m S	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
A	208m S	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	208m S	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

ID	Location	Details	
A	208m S	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	208m S	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

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

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

Records within 500m	**1**

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

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Address	Details	
C	446m SE	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.

4.13 Radioactive Substance Authorisations

Records within 500m	**0**

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

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

4.14 Licensed Discharges to controlled waters

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Address	Details	
1	10m SW	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

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

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.16 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.17 List 1 Dangerous Substances

Records within 500m	0

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

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

4.18 List 2 Dangerous Substances

Records within 500m	0

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

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

4.19 Pollution Incidents (EA/NRW)

Records within 500m	2

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 38 >**

ID	Location	Details	
2	38m 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)
C	426m SE	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)

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

4.20 Pollution inventory substances

Records within 500m	0

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

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

4.21 Pollution inventory waste transfers

Records within 500m	0

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

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

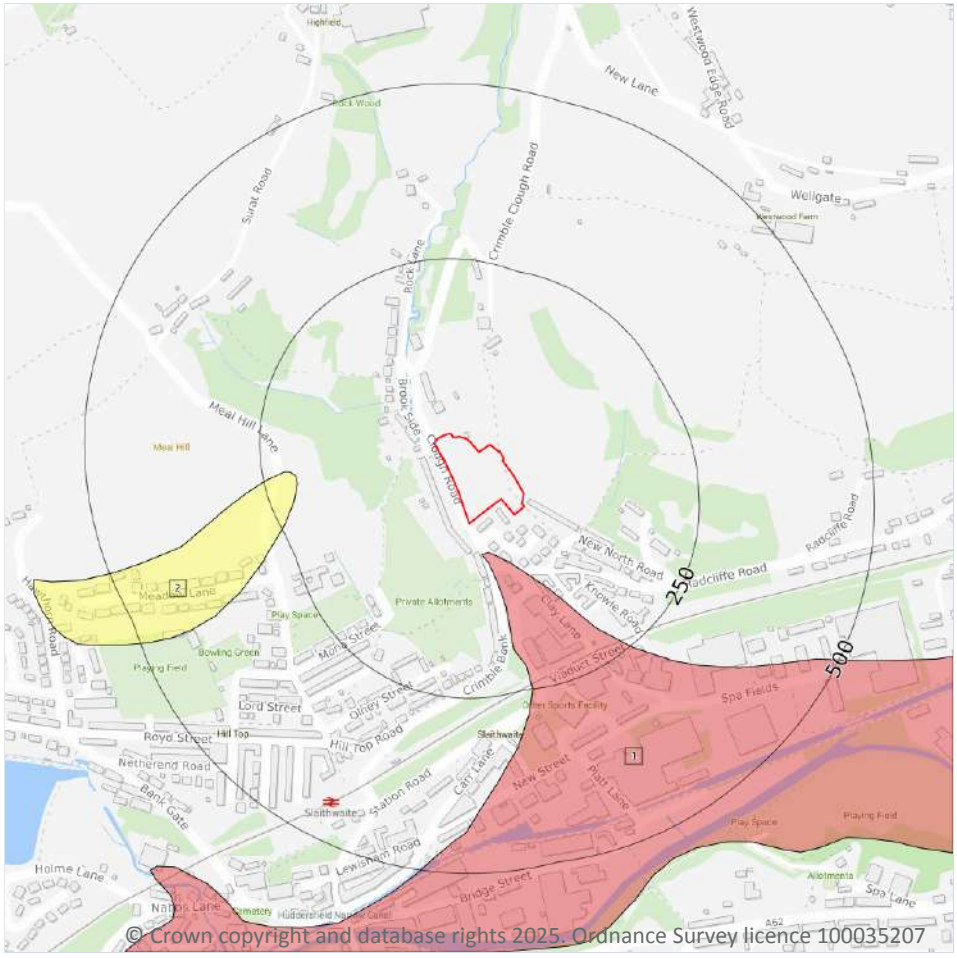
4.22 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	2

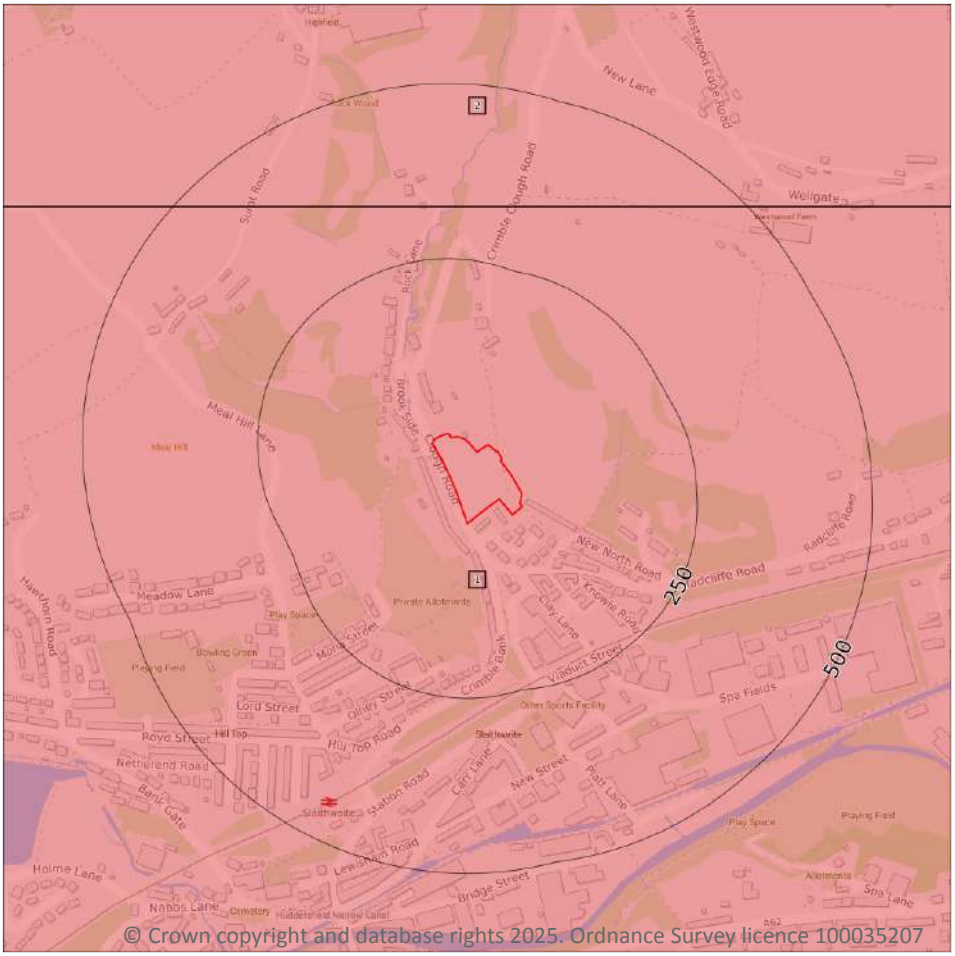
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 46 >**

ID	Location	Designation	Description
1	48m S	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	204m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	2

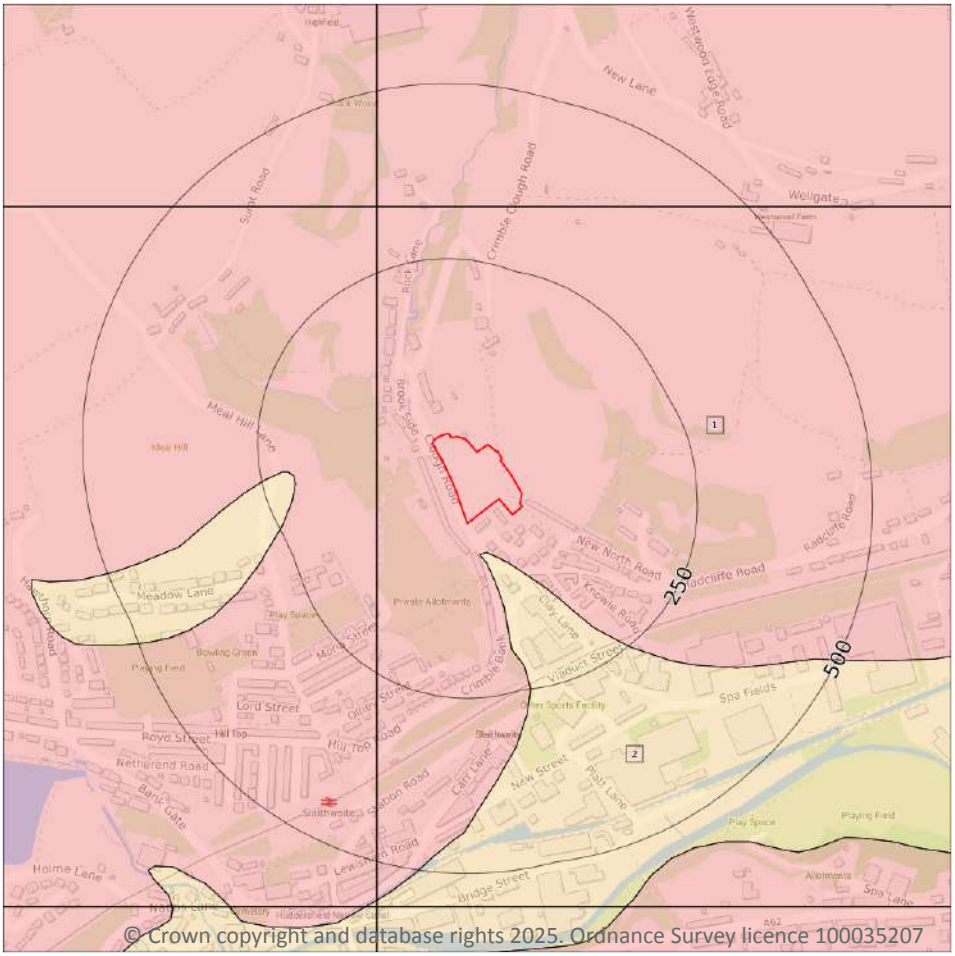
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 48 >**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	324m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

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

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

Features are displayed on the Groundwater vulnerability map on **page 50 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
2	48m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary 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.

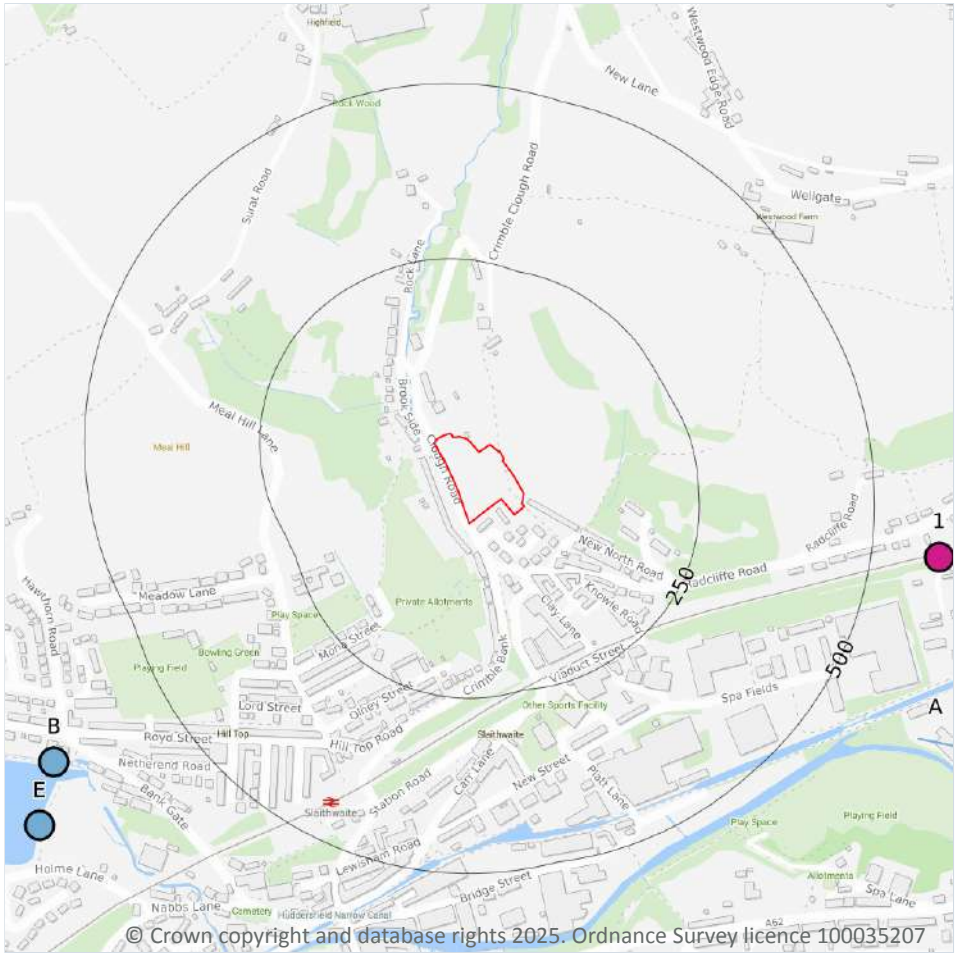
5.5 Groundwater vulnerability- local information

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	20

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 52 >**

ID	Location	Details	
1	597m 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: -
-	916m 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: -
-	916m 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: -
-	1099m SE	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	
-	1099m SE	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: -
-	1110m 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: -
-	1141m SE	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: -
-	1375m 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: -
-	1375m 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: -

ID	Location	Details	
-	1540m 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: -
-	1540m 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: -
-	1540m 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: -
-	1592m 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: -

ID	Location	Details	
-	1649m 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: -
-	1649m 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: -
-	1802m 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: -
-	1802m 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: -
-	1802m 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	
-	1802m 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: -
-	1896m E	Status: Historical Licence No: 2/27/11/057 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRINGS Data Type: Point Name: ROBERTS Easting: 410100 Northing: 414700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 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 52 >**

ID	Location	Details	
-	648m 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: -

ID	Location	Details	
A	653m SE	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: -
A	653m SE	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: -
B	684m SW	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	684m SW	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: -

ID	Location	Details	
-	713m 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: -
-	741m 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: -
-	741m 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: -
E	751m 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	
E	751m 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: -
-	760m 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: -
-	916m 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: -
-	995m 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: -

ID	Location	Details	
-	1198m 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: -
-	1203m NW	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: -
-	1206m 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: -
-	1206m 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	
-	1209m 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: -
-	1209m 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: -
-	1392m 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: -
-	1392m 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: -

ID	Location	Details	
-	1392m 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: -
-	1392m 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: -
-	1392m 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: -
-	1494m 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: -

ID	Location	Details	
-	1494m 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: -
-	1523m 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: -
-	1523m 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: -
-	1523m 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: -

ID	Location	Details	
-	1574m W	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: -
-	1574m W	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: -
-	1580m 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: -
-	1669m W	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: -

ID	Location	Details	
-	1669m W	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: -
-	1833m W	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: -
-	1833m W	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 52 >**

ID	Location	Details	
-	713m 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: -
-	1198m 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: -
-	1392m 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: -
-	1392m 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: -

ID	Location	Details	
-	1540m 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: -
-	1540m 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: -
-	1540m 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: -
-	1574m W	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: -

ID	Location	Details	
-	1669m W	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: -
-	1833m W	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.

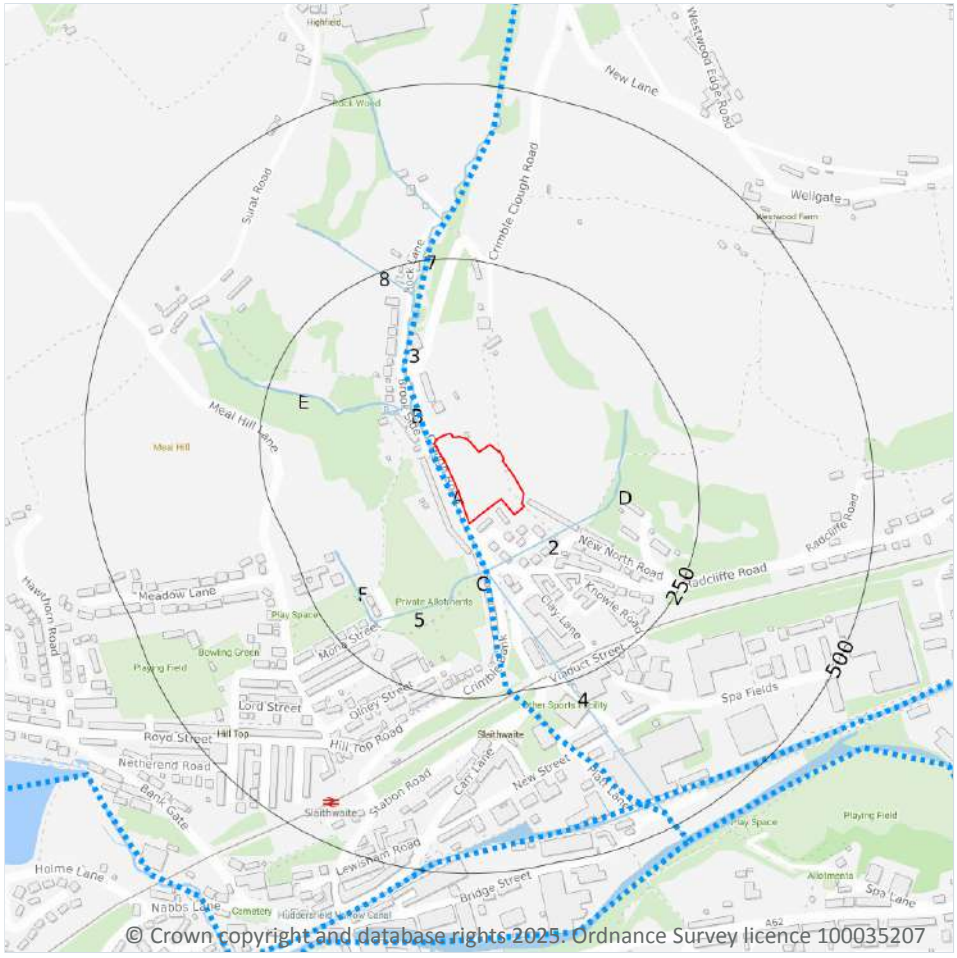
5.10 Source Protection Zones (confined aquifer)

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



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	26

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 70 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	7m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Crimble Clough

ID	Location	Type of water feature	Ground level	Permanence	Name
2	53m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
3	55m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Crimble Clough
B	55m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	63m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	67m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	73m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Crimble Clough
C	73m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	77m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	81m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	90m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	95m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
B	100m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	102m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	105m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	115m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	116m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	136m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	138m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	139m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	139m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	186m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	204m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Crimble Clough
8	204m N	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	13

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 70 >**

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 70 >**

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 70 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	6m SW	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

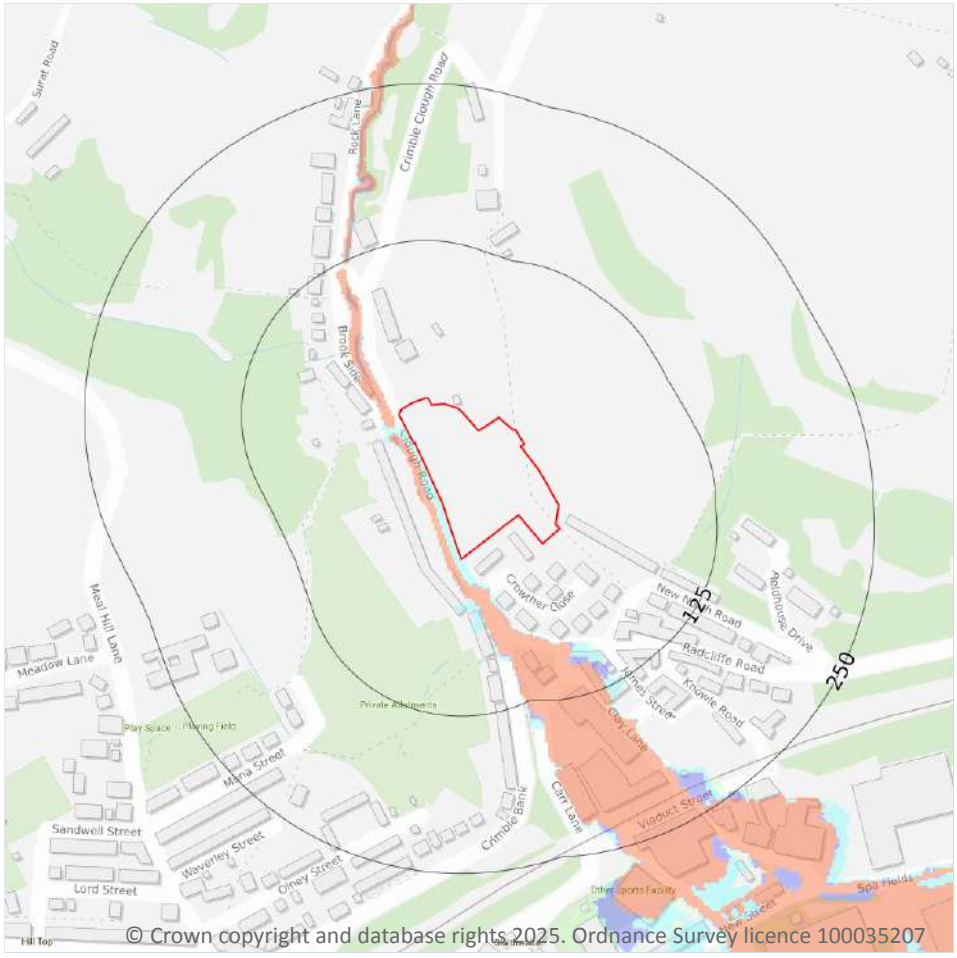
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 70 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.**	**GB40402G700400 ↗**	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

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

7.1 Risk of flooding from rivers and the sea

Records within 50m	12

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

Features are displayed on the River and coastal flooding map on **page 75 >**

Distance	Flood risk category
On site	**Low**
0 - 50m	High

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.

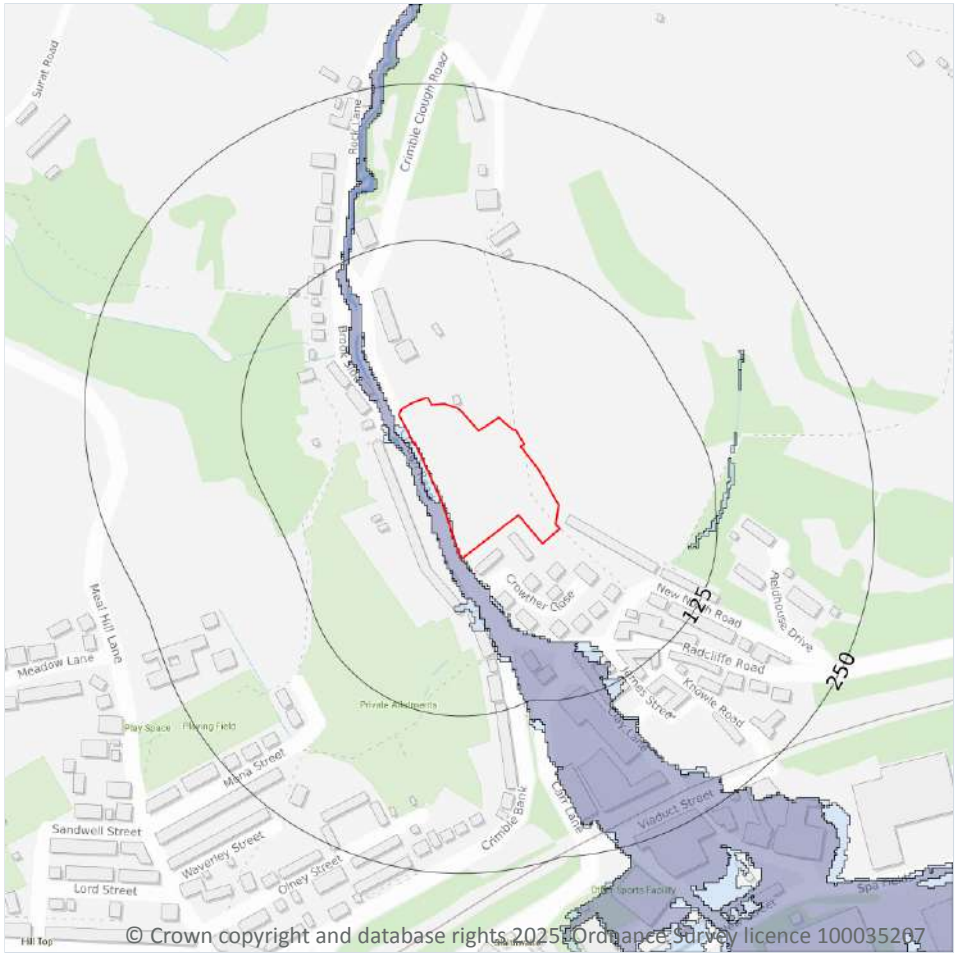
7.5 Flood Storage Areas

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 75 >**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

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

7.7 Flood Zone 3

Records within 50m	1

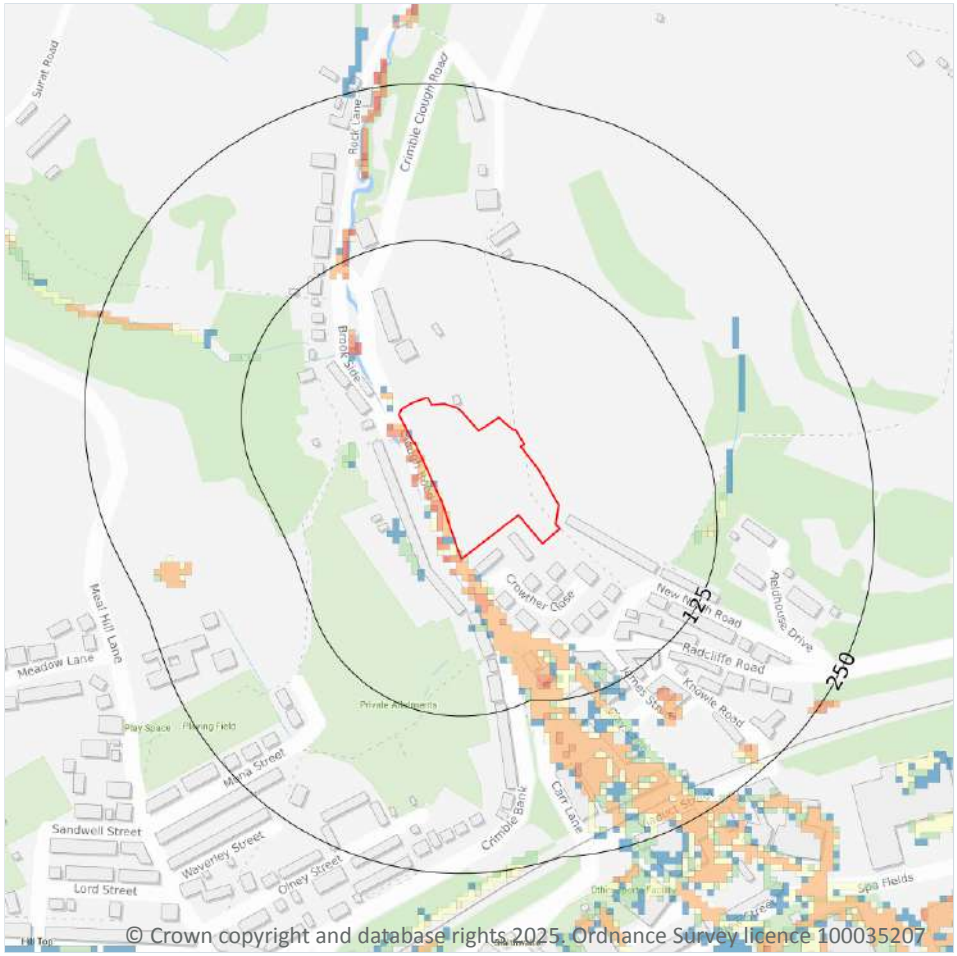
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 75 >**

Location	Type
On site	**Zone 3 - (Fluvial /Tidal Models)**

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 79 >**

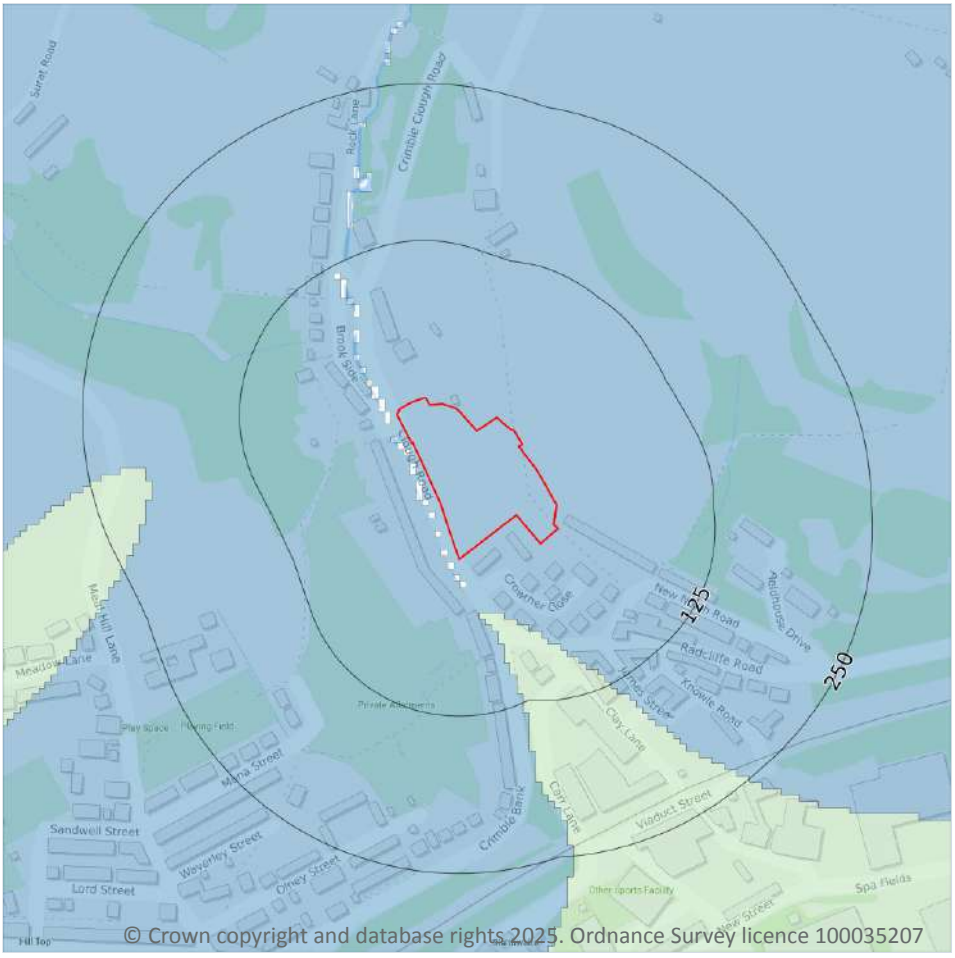
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

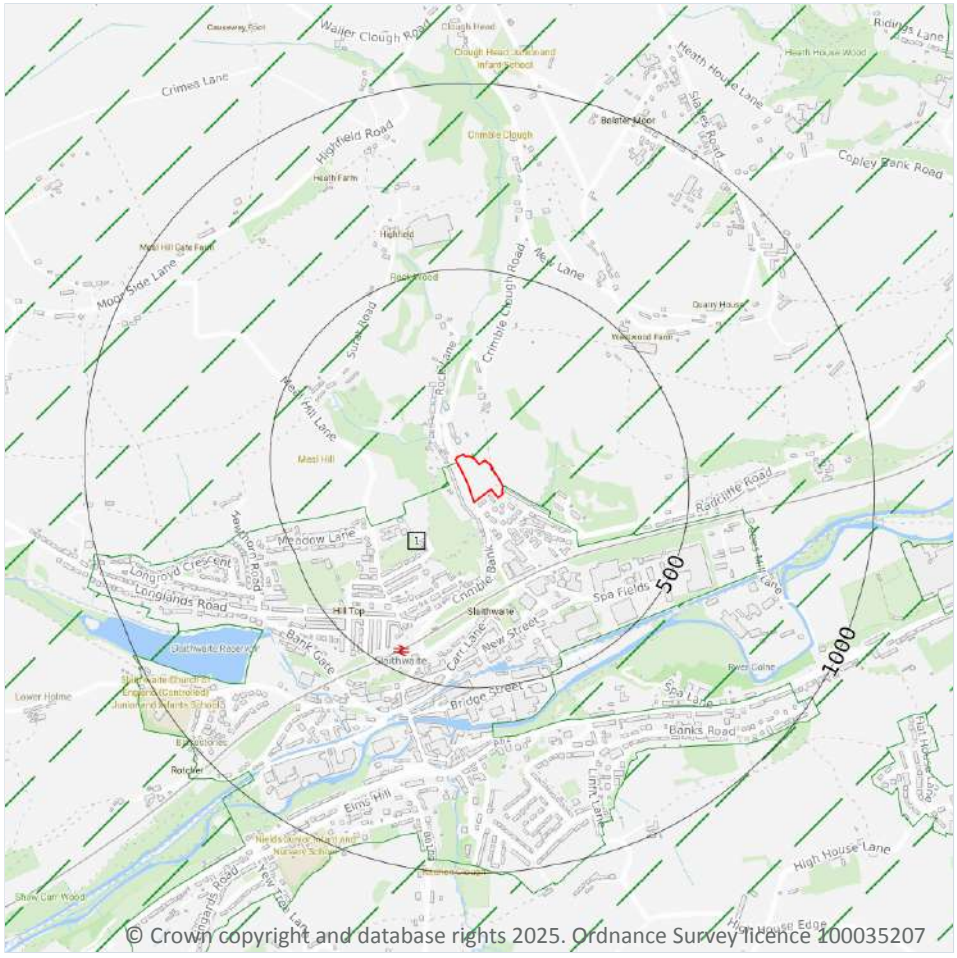
Highest risk on site	**Negligible**
Highest risk within 50m	**Low**

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

Features are displayed on the Groundwater flooding map on **page 81 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	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	1

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

Features are displayed on the Environmental designations map on **page 82 >**

ID	Location	Name	Woodland Type
-	1989m NW	Unknown	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 82 >**

ID	Location	Name	Local Authority name
1	**On site**	**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.

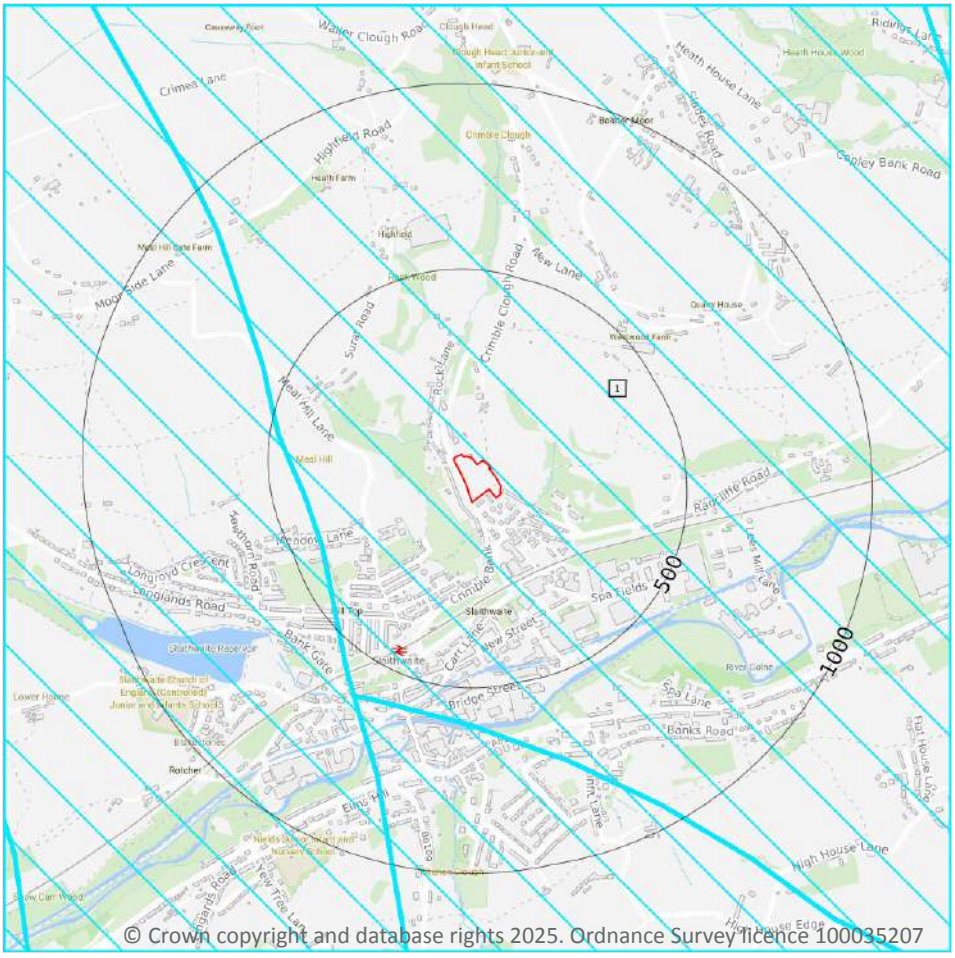
10.16 Nitrate Vulnerable Zones

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



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

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 87 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0303000430000&notes=&location=413843,409691%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

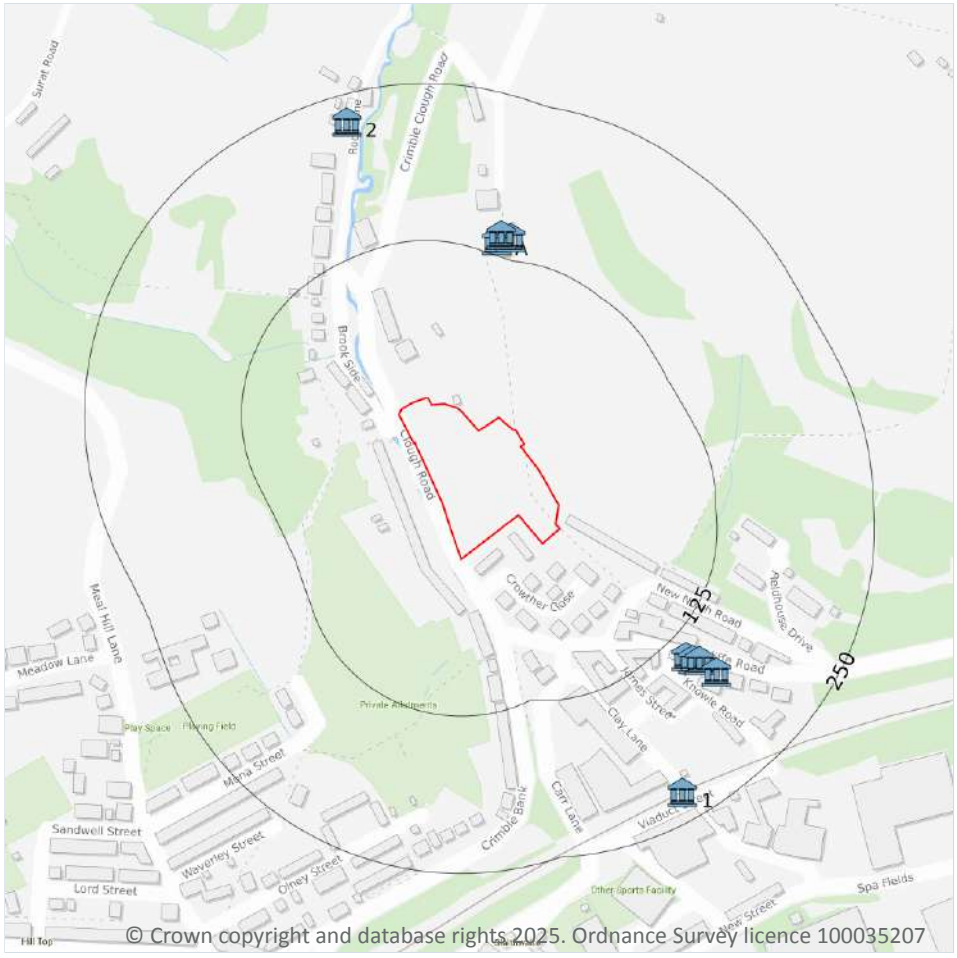
10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations



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	9

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 89 >**

ID	Location	Name	Grade	Reference Number	Listed date
A	136m N	Wood End Farm	II*	1233729	11/07/1985
A	142m N	Wood End Farm	II	1233730	11/07/1985
A	142m N	Wood End Farm	II	1276451	11/07/1985
B	143m SE	315 And 317, Radcliffe Road	II	1222521	11/07/1985
B	148m SE	313, Radcliffe Road	II	1274541	11/07/1985
B	153m SE	309 And 311, Radcliffe Road	II	1274623	11/07/1985

ID	Location	Name	Grade	Reference Number	Listed date
B	168m SE	307, Radcliffe Road	II	1222520	11/07/1985
1	227m SE	Crimble Viaduct	II	1233737	11/07/1985
2	228m N	12-13, Rock Lane	II	1223631	11/07/1985

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

11.5 Conservation Areas

Records within 250m	**0**

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	**0**

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

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

11.7 Registered Parks and Gardens

Records within 250m	**0**

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	4

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 92 >**

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

ID	Location	Classification	Description
2	67m W	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.
3	149m N	Urban	Non-agricultural/no quality assigned
4	156m N	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	2

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
117m W	AG00445183	Entry Level plus Higher Level Stewardship	01/08/2013	31/07/2023
228m W	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

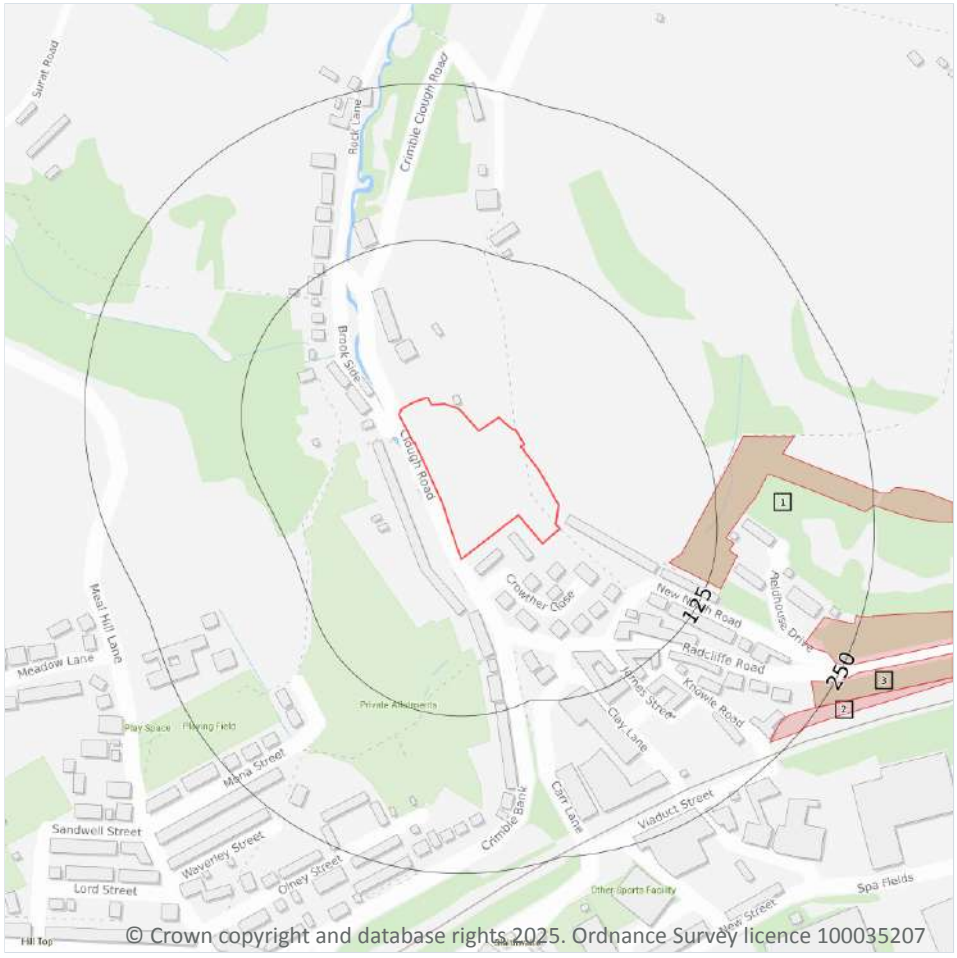
Records within 250m	**1**

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

Location	Reference	Scheme	Start Date	End Date
228m W	1279572	Countryside Stewardship (Higher Tier)	01/09/2022	31/08/2024

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

13.1 Priority Habitat Inventory

Records within 250m	3

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

Features are displayed on the Habitat designations map on **page 95 >**

ID	Location	Main Habitat	Other habitats
1	91m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	233m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	234m SE	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.

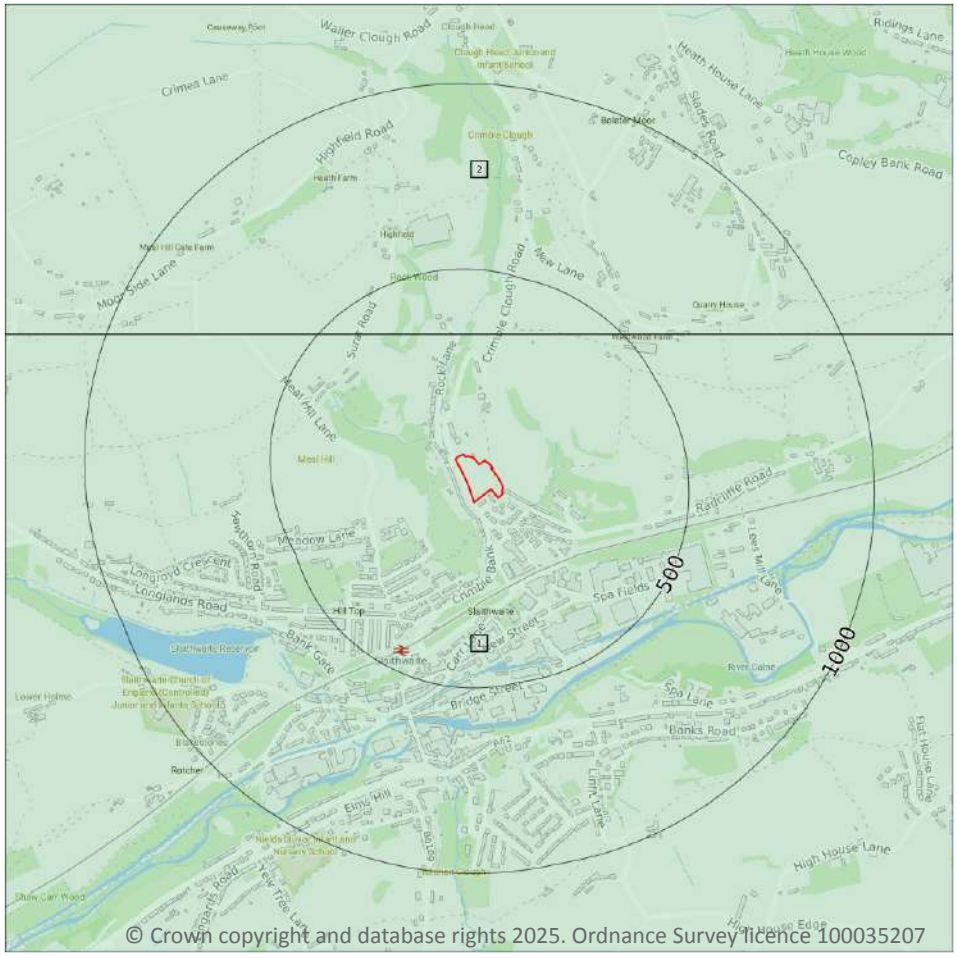
13.4 Limestone Pavement Orders

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



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Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m **2**

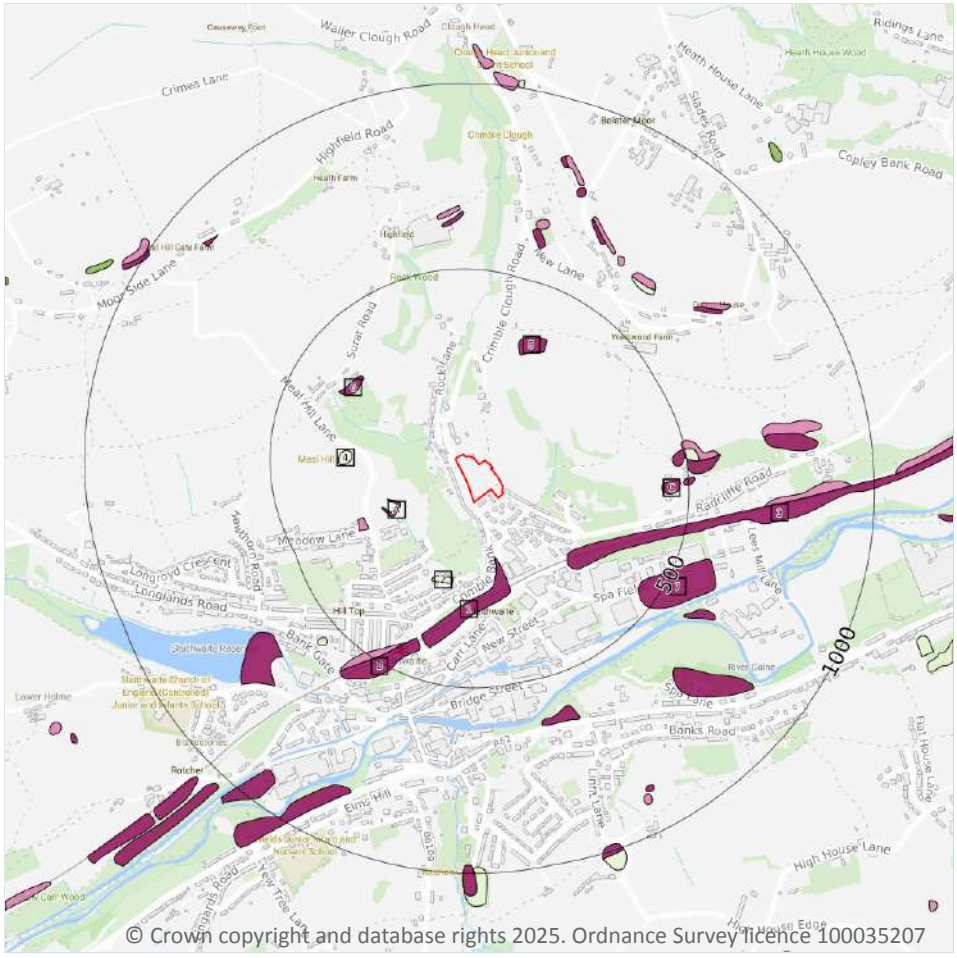
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 97 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE01SE**
2	324m N	Full	Full	Full	Full	SE01NE

This data is sourced from the British Geological Survey.

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



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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	16

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.

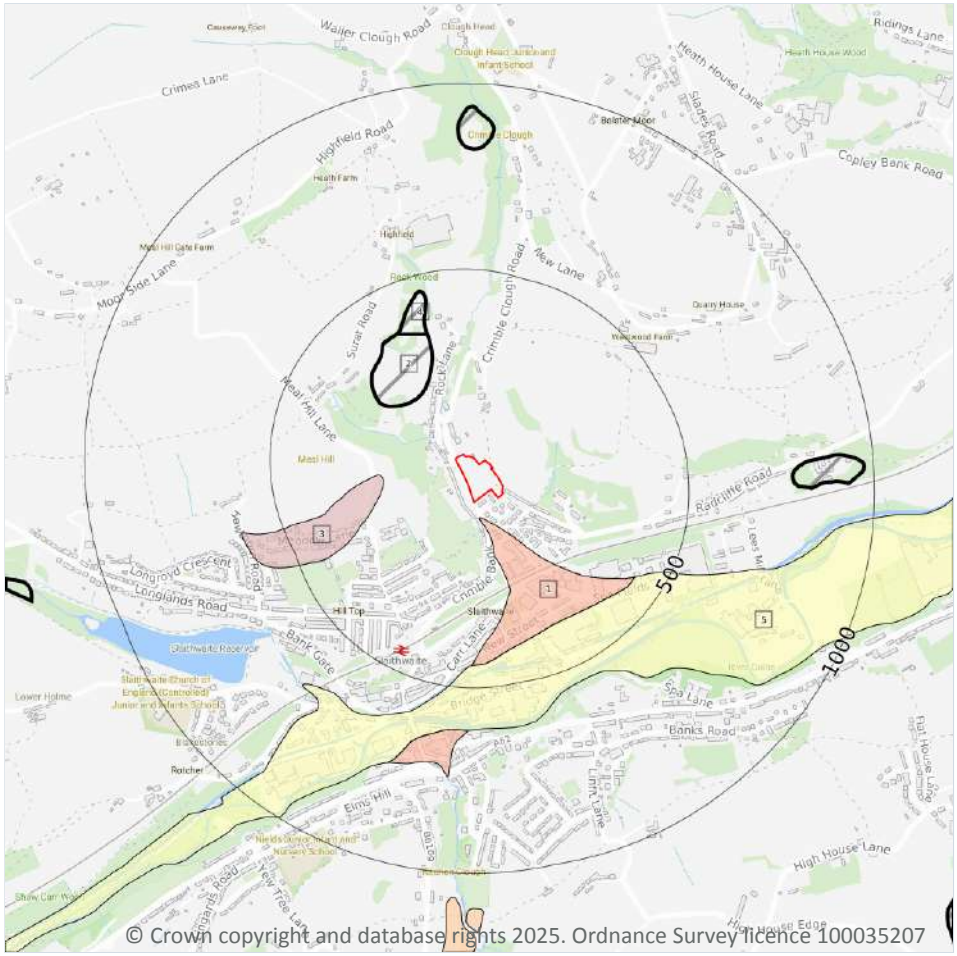
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 98 >**

ID	Location	LEX Code	Description	Rock description
1	157m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	186m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	211m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	239m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
4	279m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	291m W	WGR-VOID	Worked Ground (Undivided)	Void
5	300m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	323m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	396m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	416m SW	WGR-VOID	Worked Ground (Undivided)	Void
C	428m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	442m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	463m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	487m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	494m E	WGR-VOID	Worked Ground (Undivided)	Void
C	496m E	WMGR-ARTDP	Infilled Ground	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	3

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 100 >**

ID	Location	LEX Code	Description	Rock description
1	44m S	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
3	202m W	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
5	373m SE	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**2**

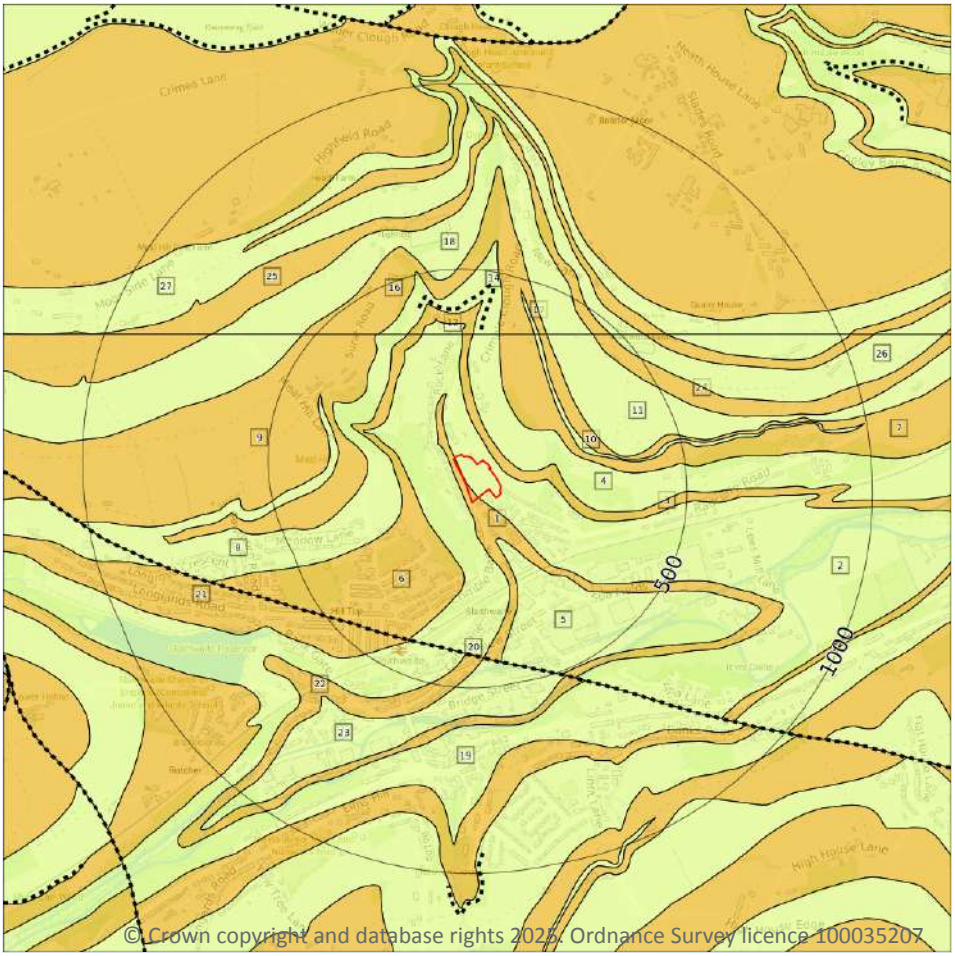
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 100 >**

ID	Location	LEX Code	Description	Rock description
2	192m NW	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry
4	339m N	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	25

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 102 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**RDG-SDST**	**Readycon Dean Flags - Sandstone**	**Marsdenian Sub-age**
2	**On site**	**MG-MDSS**	**Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone**	**Namurian Age**
3	22m NE	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age

ID	Location	LEX Code	Description	Rock age
4	47m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
5	109m S	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
6	128m SW	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age
7	142m NE	MGG-SDST	Midgley Grit - Sandstone	Marsdenian Sub-age
8	160m W	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
9	231m W	MGG-SDST	Midgley Grit - Sandstone	Marsdenian Sub-age
10	234m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
11	284m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
12	324m N	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
13	324m N	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age
14	326m N	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
16	340m N	MGG-SDST	Midgley Grit - Sandstone	Marsdenian Sub-age
17	367m N	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
18	380m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
19	400m S	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
21	406m SW	EC-SDST	East Carlton Grit - Sandstone	Marsdenian Sub-age
22	408m S	RDG-SDST	Readycon Dean Flags - Sandstone	Marsdenian Sub-age
23	421m S	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
24	437m NE	GSYG-SDST	Guiseley Grit - Sandstone	Marsdenian Sub-age
25	449m NE	GSYG-SDST	Guiseley Grit - Sandstone	Marsdenian Sub-age
26	480m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age

ID	Location	LEX Code	Description	Rock age
27	481m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**2**

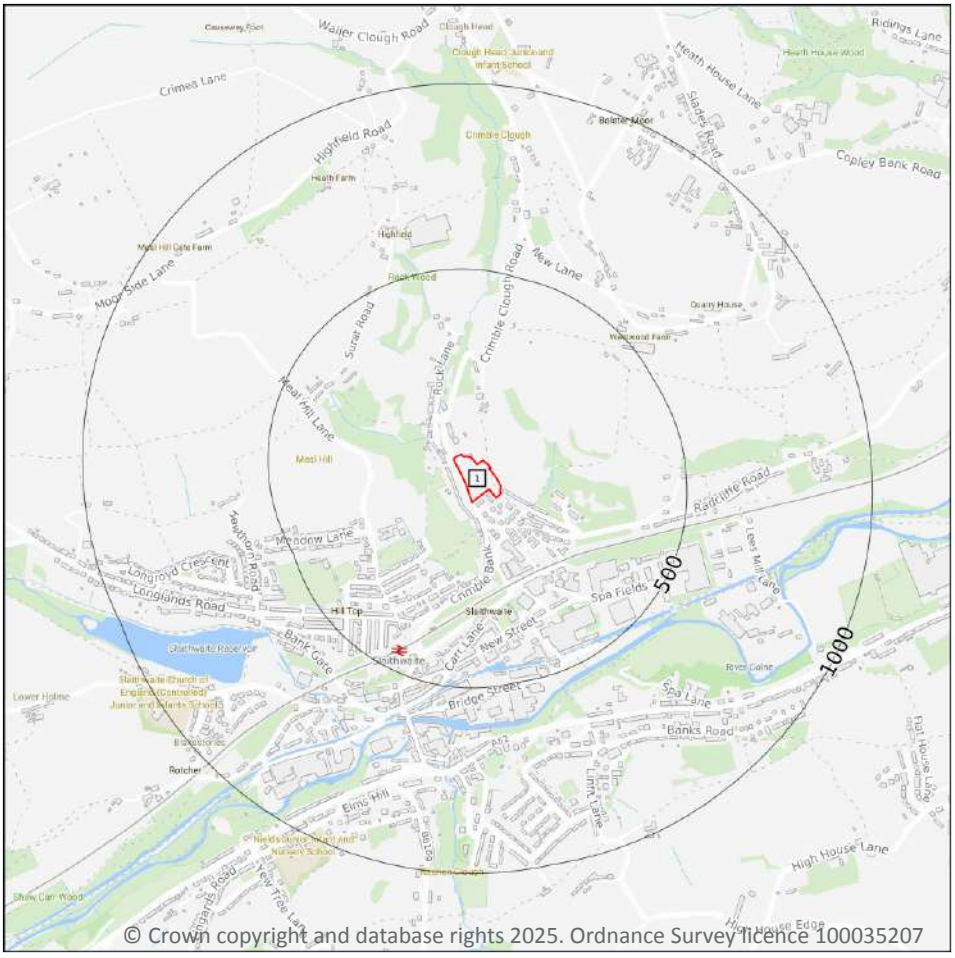
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

ID	Location	Category	Description
15	328m N	FOSSIL_HORIZON	Fossil horizon, marine band
20	400m 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

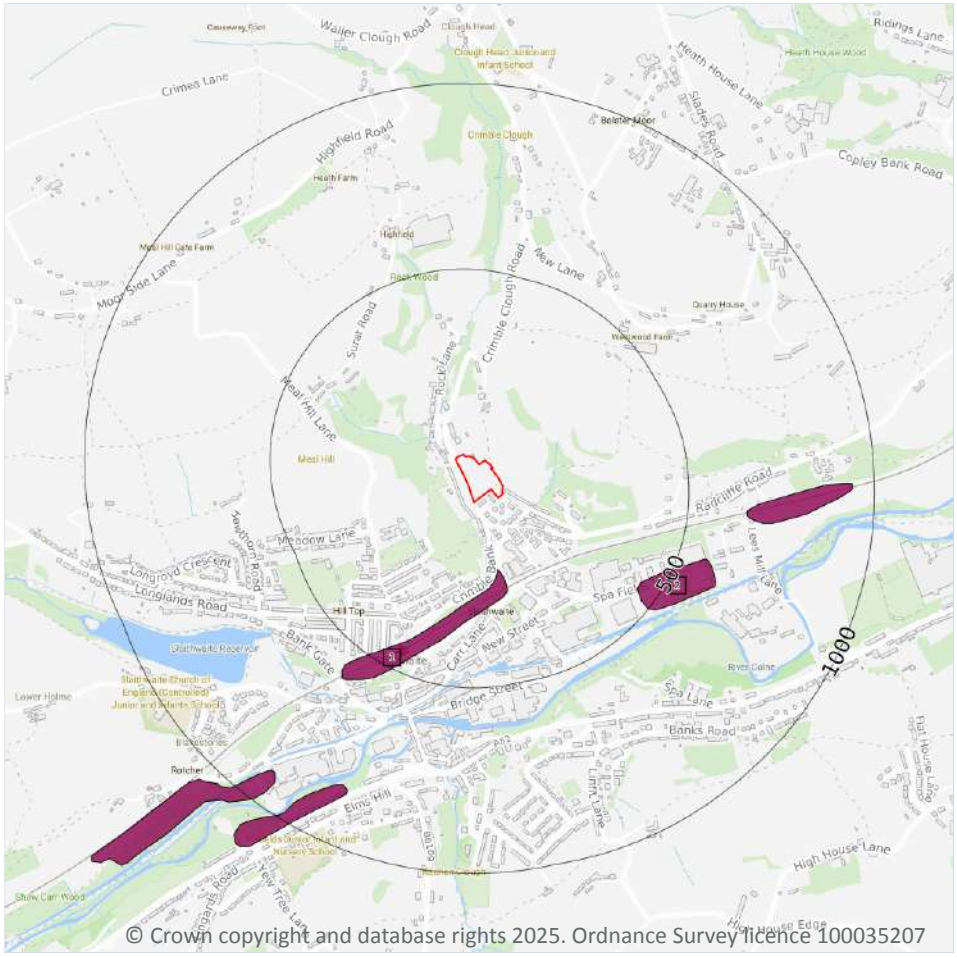
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 105 >**

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 106 >**

ID	Location	LEX Code	Description	Rock description
1	191m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	441m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

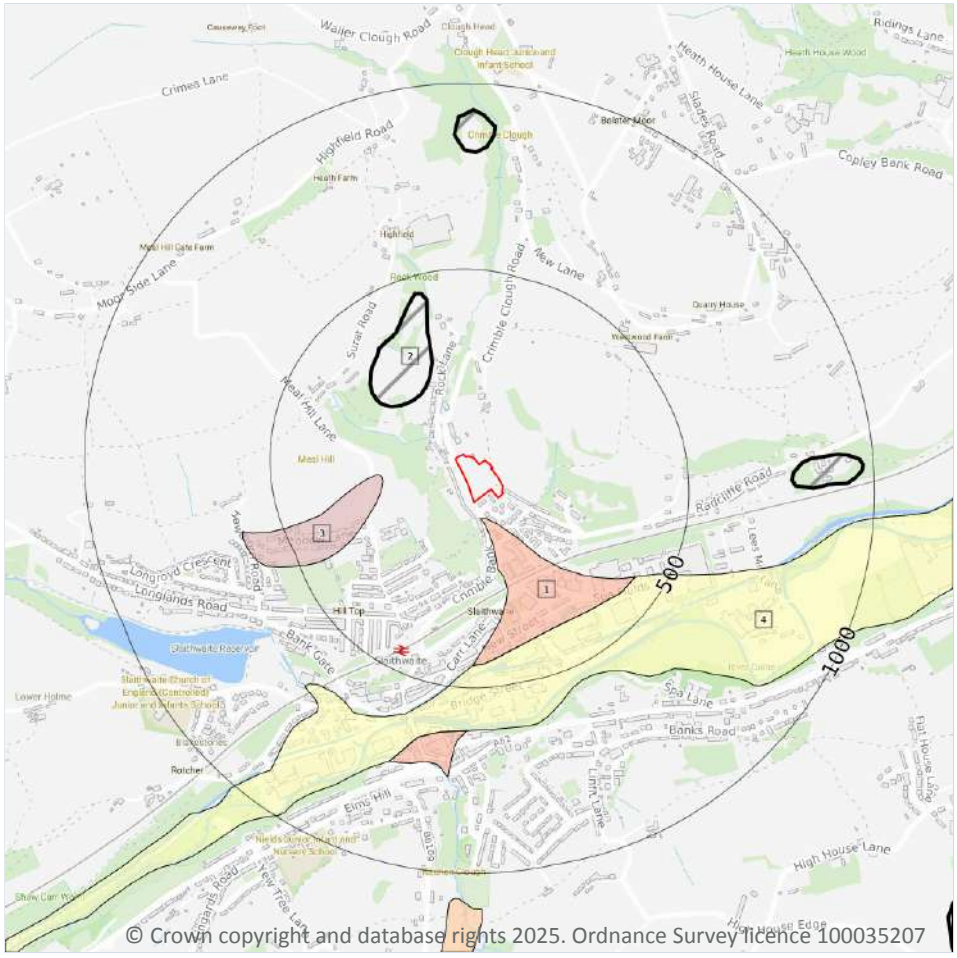
15.3 Artificial ground permeability (50k)

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 **3**

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 108 >**

ID	Location	LEX Code	Description	Rock description
1	48m S	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
3	204m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
4	381m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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

Location	Flow type	Maximum permeability	Minimum permeability
48m S	Intergranular	Very High	High

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 108 >**

ID	Location	LEX Code	Description	Rock description
2	194m NW	SLIP-UKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

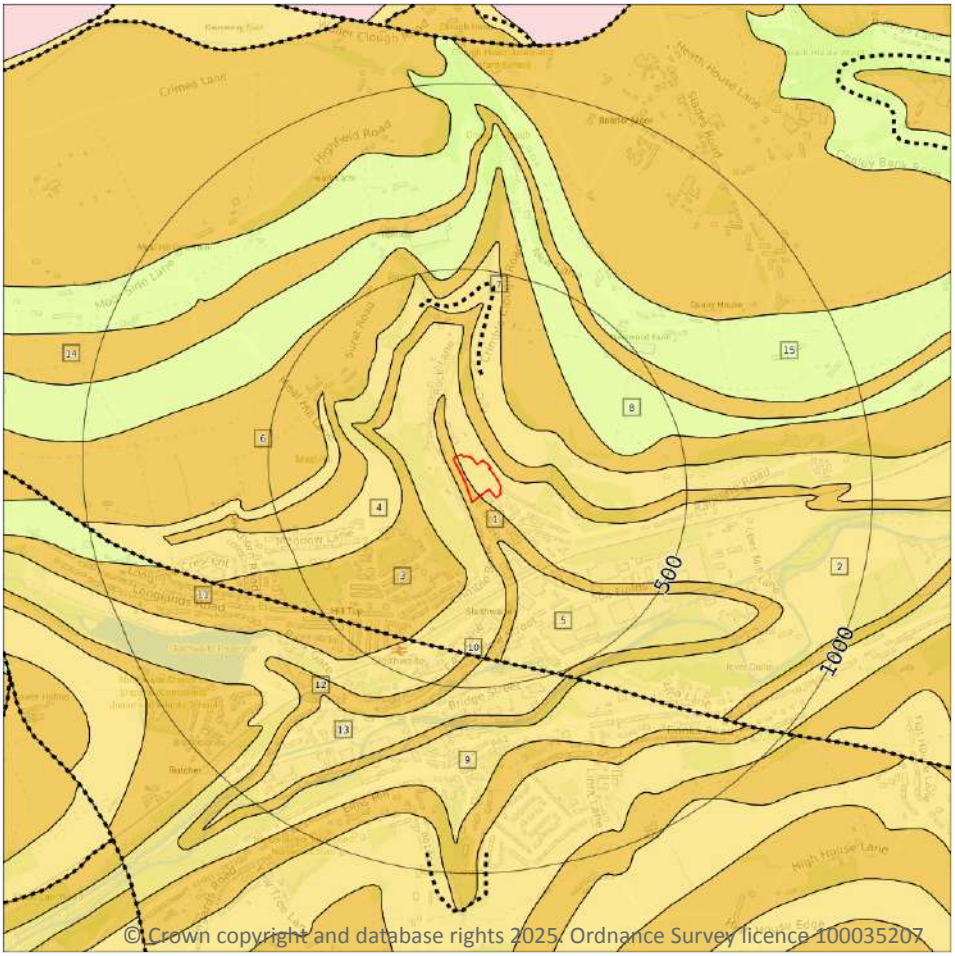
15.7 Landslip permeability (50k)

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 **13**

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 110 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**RDG-SDST**	**READYCON DEAN FLAGS - SANDSTONE**	**NAMURIAN**
2	**On site**	**MARSD-MDSI**	**MARSDEN FORMATION - MUDSTONE AND SILTSTONE**	**NAMURIAN**
3	17m NE	EC-SDST	EAST CARLTON GRIT - SANDSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
4	56m NE	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
5	117m S	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
6	144m NE	MGG-SDST	MIDGLEY GRIT - SANDSTONE	NAMURIAN
8	284m NE	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
9	401m S	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
11	409m SW	EC-SDST	EAST CARLTON GRIT - SANDSTONE	NAMURIAN
12	410m S	RDG-SDST	READYCON DEAN FLAGS - SANDSTONE	NAMURIAN
13	422m S	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
14	440m NE	GSYG-SDST	GUISELEY GRIT - SANDSTONE	NAMURIAN
15	476m NE	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **3**

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**
On site	**Fracture**	**Low**	**Low**
17m NE	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	2

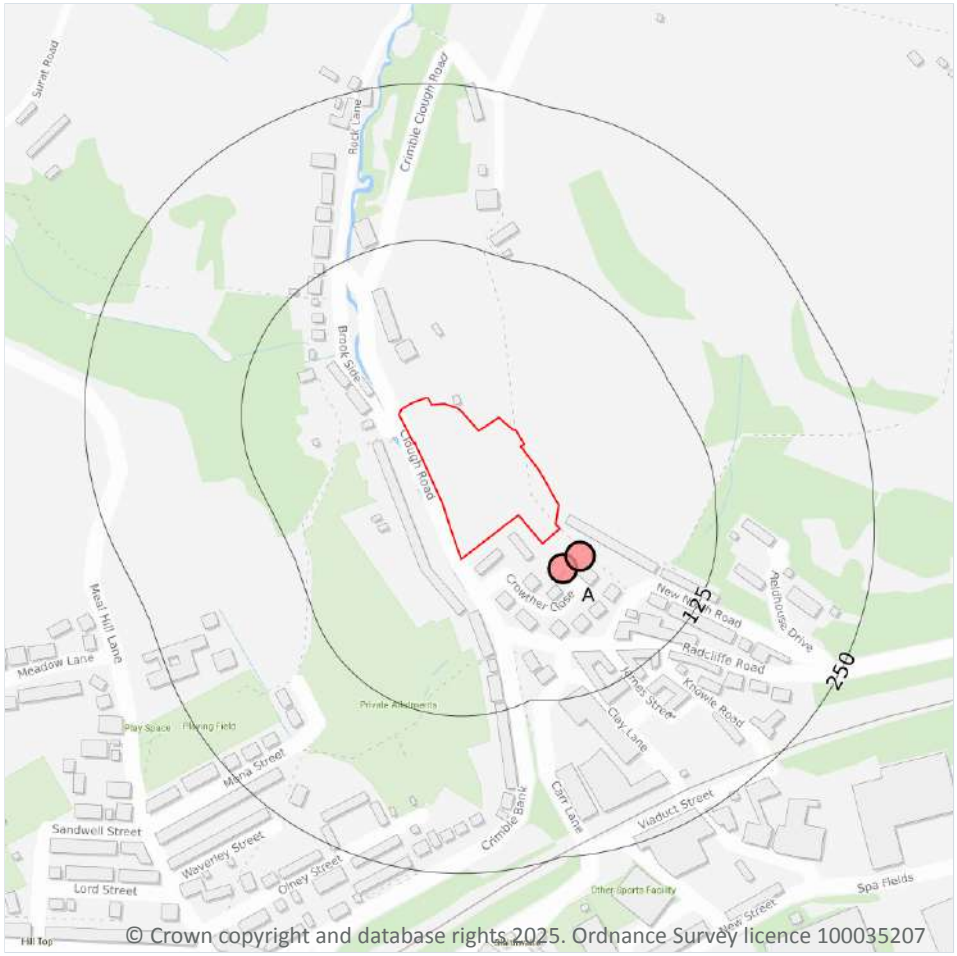
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 110 >**

ID	Location	Category	Description
7	215m N	FOSSIL_HORIZON	Marine band
10	401m 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

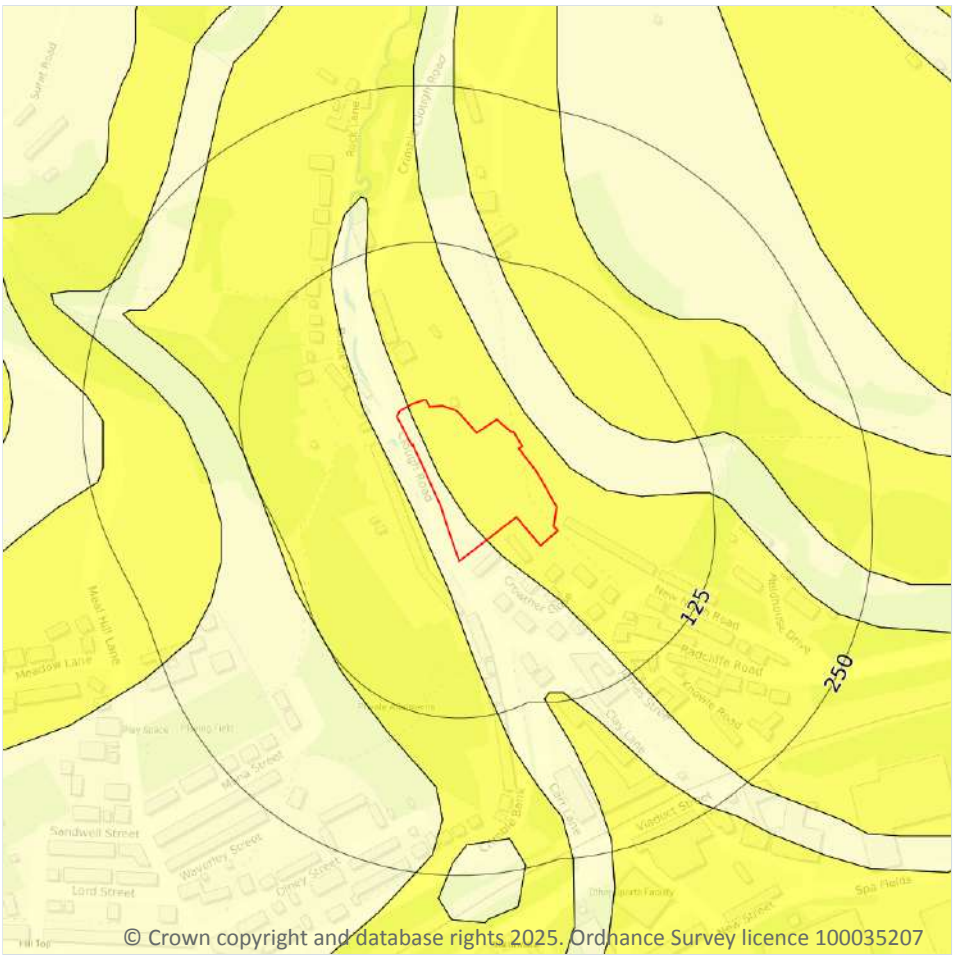
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 113 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	26m SE	408210 414540	UPPER MILL	112.0	N	36909 ↗
A	27m SE	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

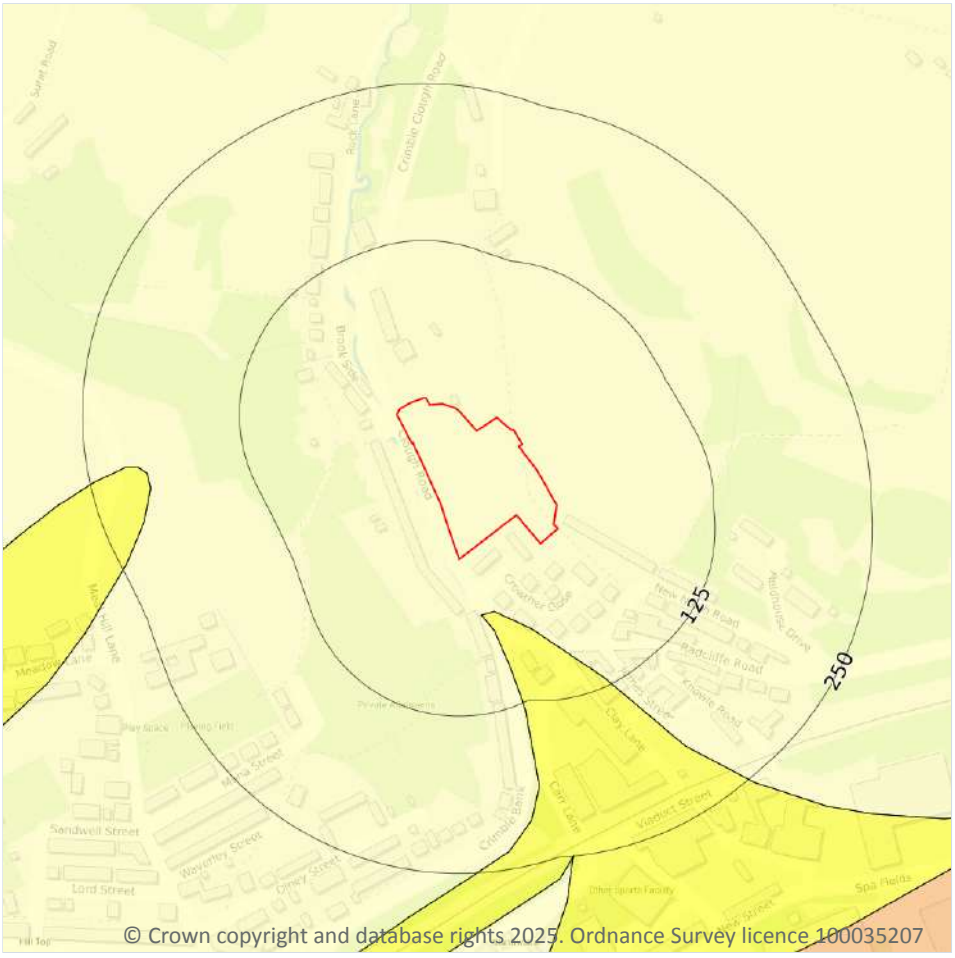
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 114 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
17m NE	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	2

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.

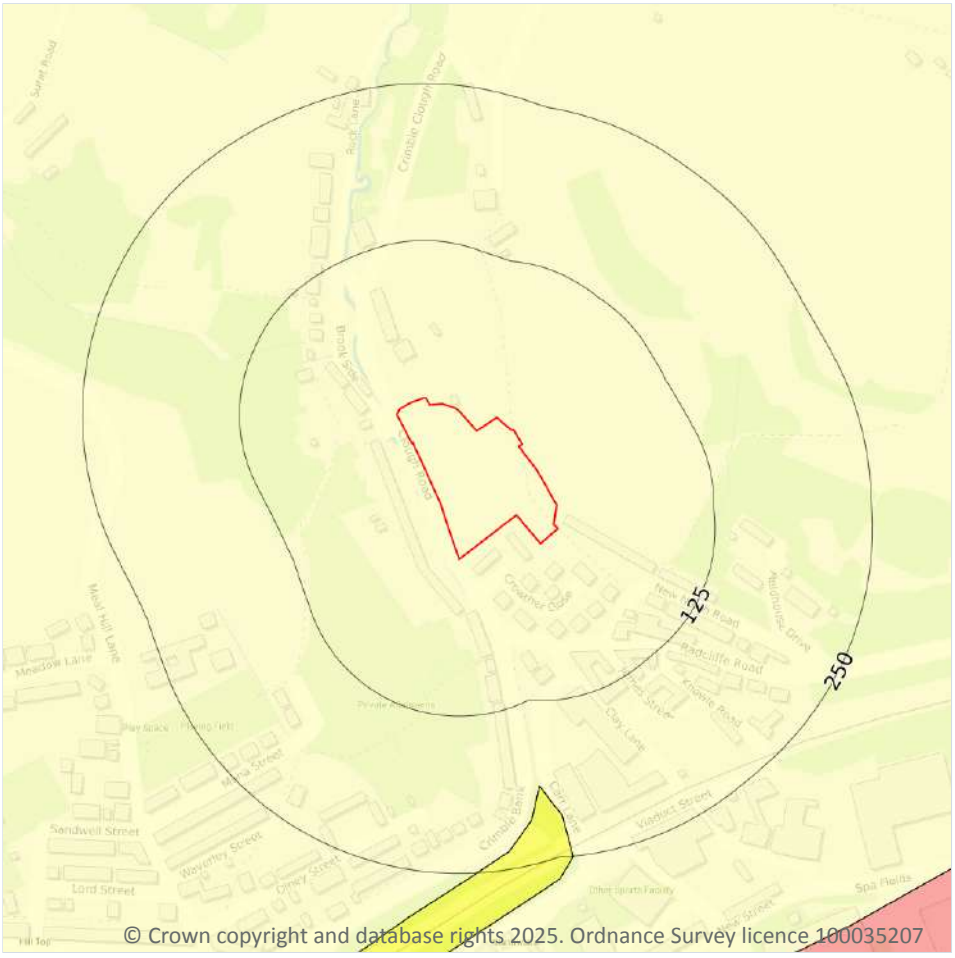
Features are displayed on the Natural ground subsidence - Running sands map on **page 116 >**

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.**

Location	Hazard rating	Details
48m S	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

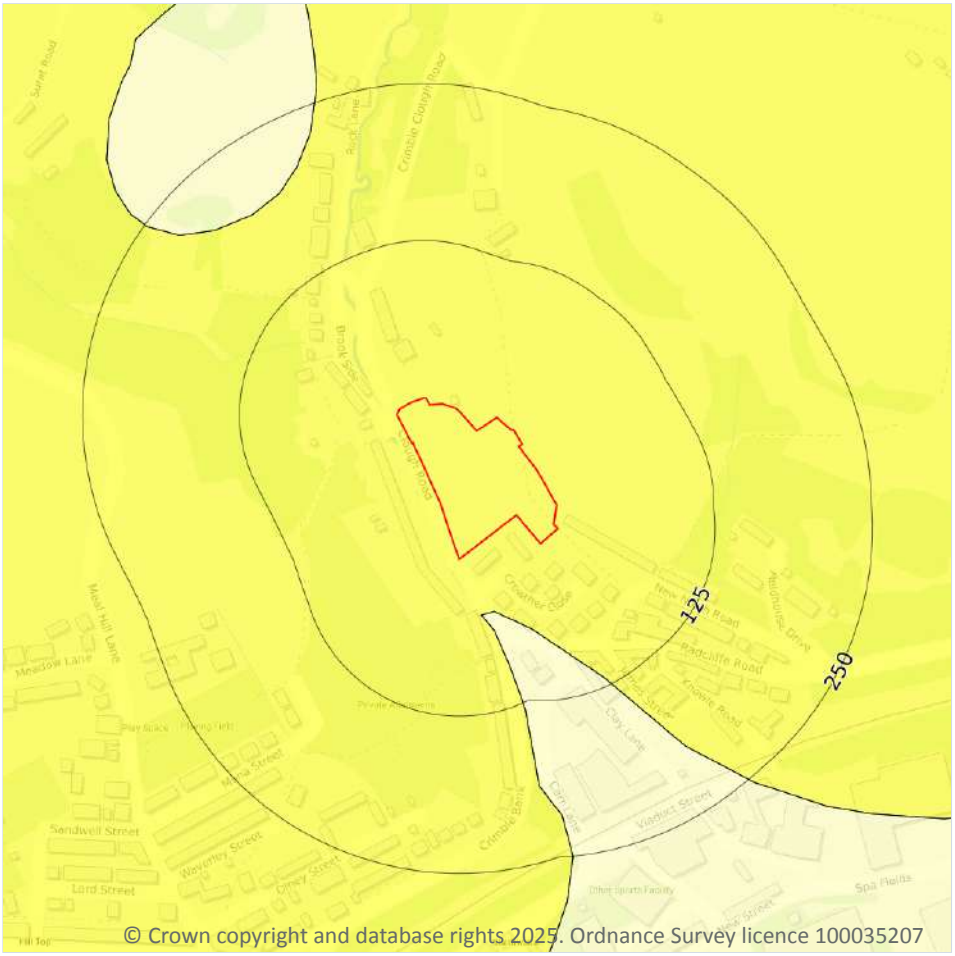
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

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



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

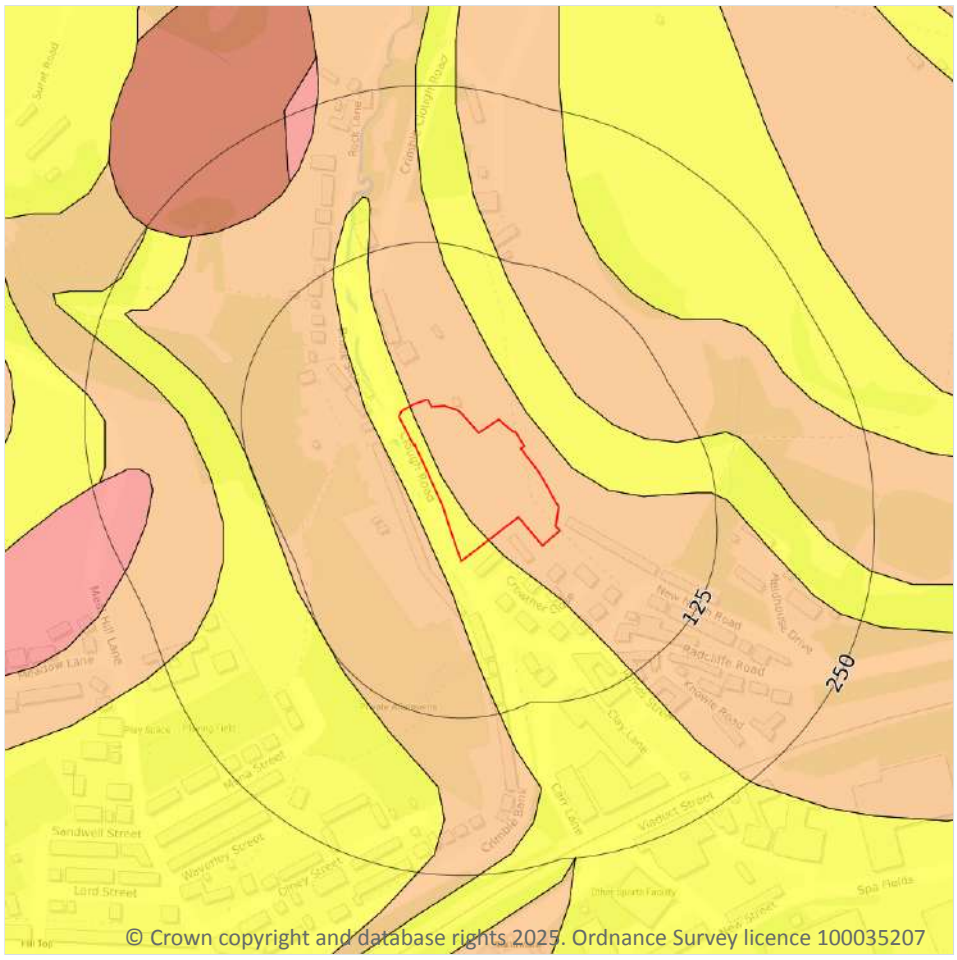
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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.**
48m S	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	3

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
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
17m NE	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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

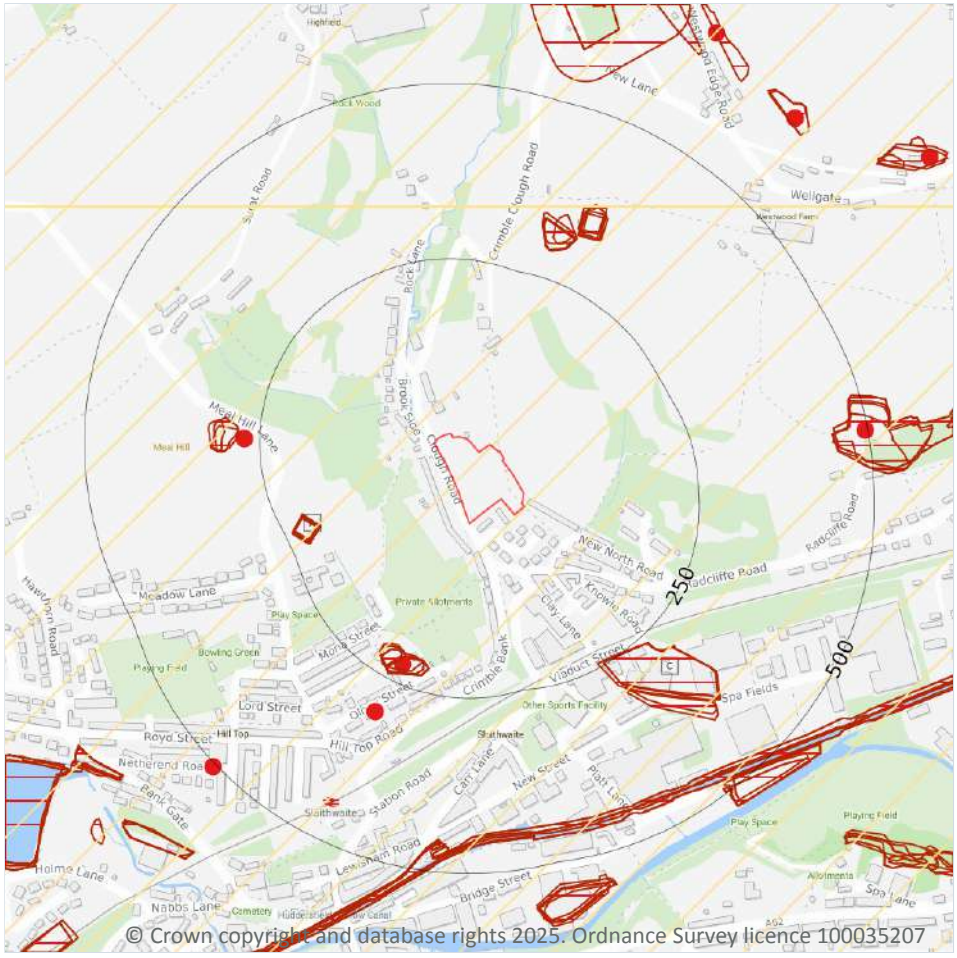
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

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



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	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	223m SW	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.
D	271m W	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.
2	301m 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	496m E	Name: High Wood Quarry Address: Radcliffe Road, 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	**17**

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
A	200m SW	Reservoir	1904	1:10560
A	200m SW	Pond	1890	1:10560
A	201m SW	Reservoir	1978	1:10000
A	201m SW	Reservoir	1955	1:10560
B	201m SW	Unspecified Pits	1955	1:10560
A	203m SW	Reservoir	1930	1:10560
B	204m SW	Refuse Heap	1930	1:10560
B	204m SW	Refuse Heap	1930	1:10560
A	205m SW	Reservoir	1948	1:10560
B	205m SW	Unspecified Quarry	1904	1:10560
B	205m SW	Unspecified Quarry	1890	1:10560
B	205m SW	Unspecified Ground Workings	1948	1:10560
B	207m S	Unspecified Ground Workings	1930	1:10560
B	207m S	Unspecified Ground Workings	1930	1:10560
C	244m SE	Sewage Works	1948	1:10560
C	246m SE	Sewage Works	1930	1:10560
C	246m SE	Sewage Works	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
1	**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.**
3	324m 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

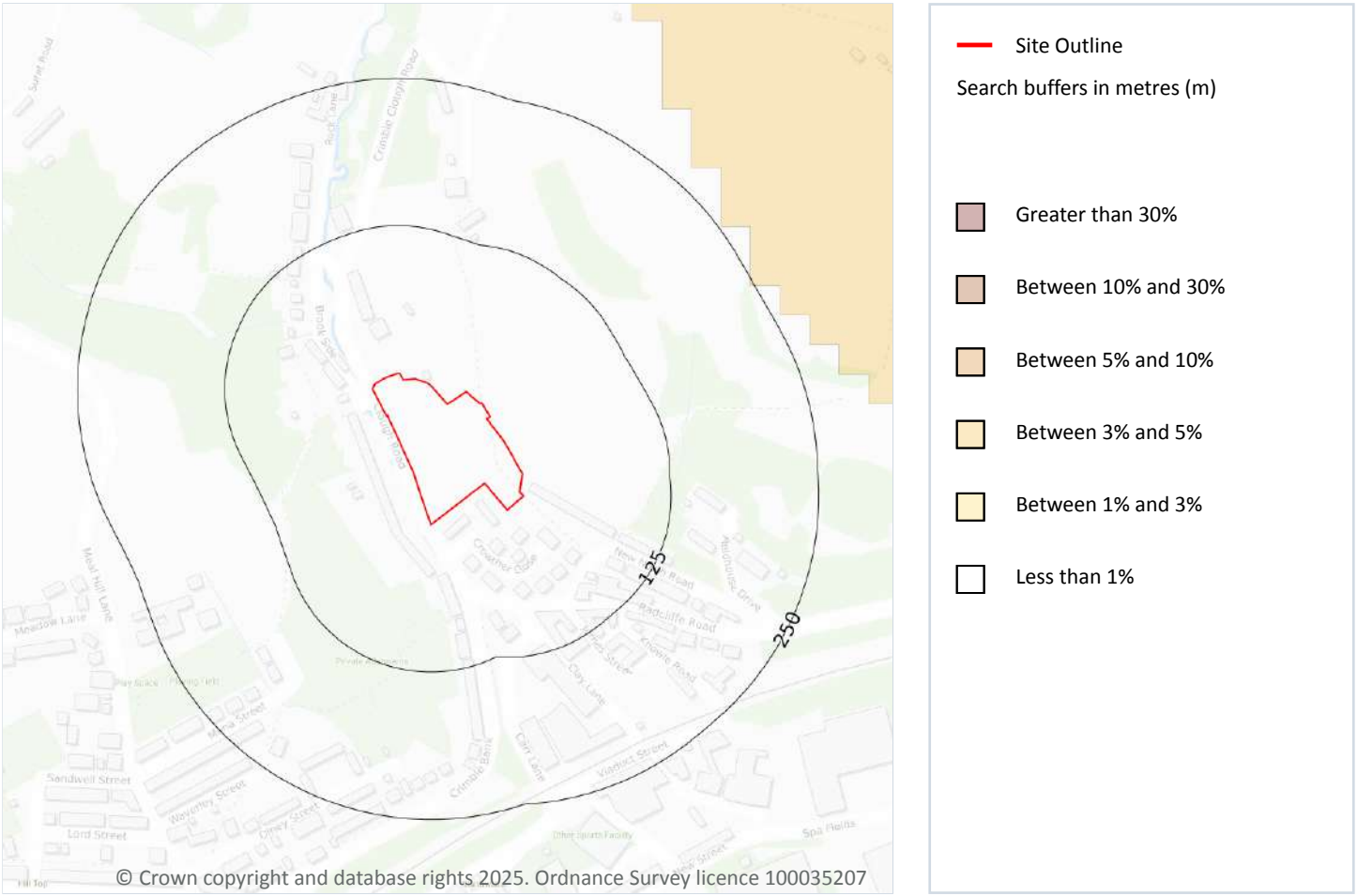
Records within 500m	0

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



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	6

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	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
17m NE	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
48m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
48m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
48m S	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 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.

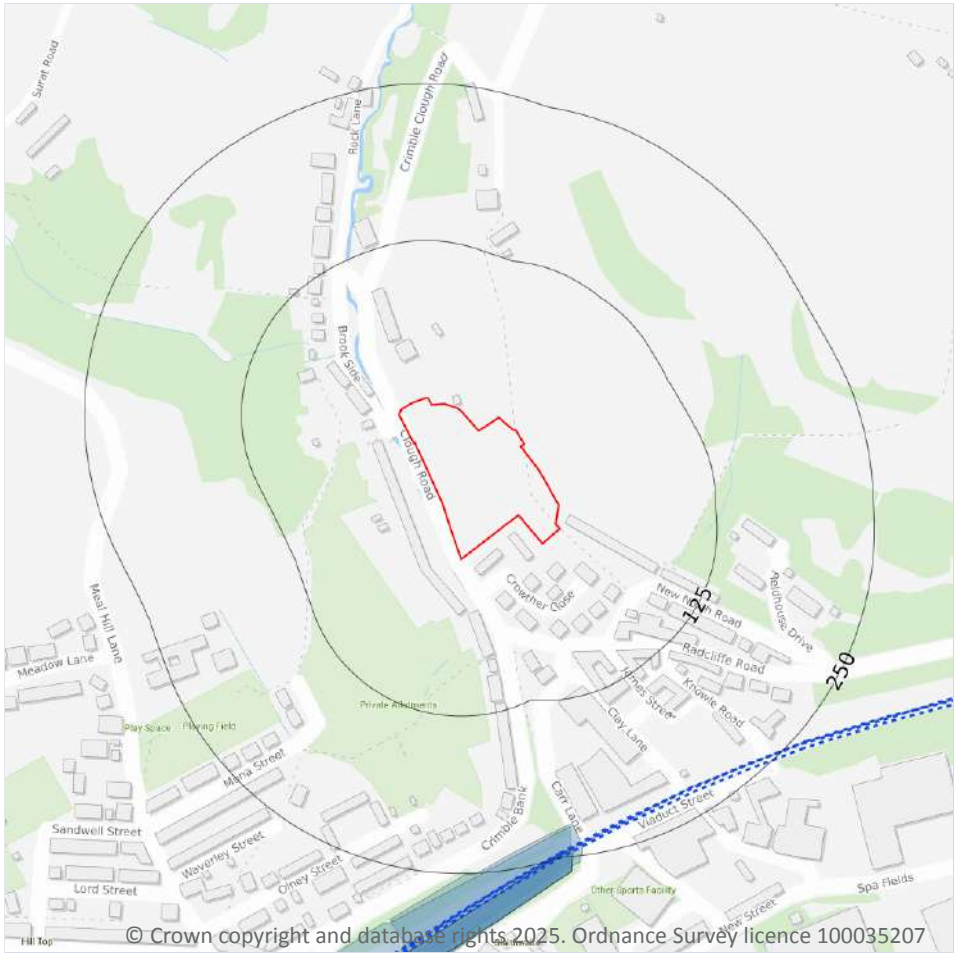
21.3 BGS Measured Urban Soil Chemistry

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	6

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 137 >**

Location	Land Use	Year of mapping	Mapping scale
224m S	Railway Sidings	1955	10560
226m S	Railway Sidings	1930	10560
243m S	Railway Sidings	1948	10560
243m S	Railway Sidings	1904	10560
243m S	Railway Sidings	1890	10560
250m S	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	6

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 137 >**

Location	Name	Type
227m SE	Huddersfield Line	rail
227m SE	Not given	Multi Track
230m SE	Huddersfield Line	rail
247m S	Huddersfield Line	rail
247m S	Not given	Multi Track
250m S	Huddersfield Line	rail

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

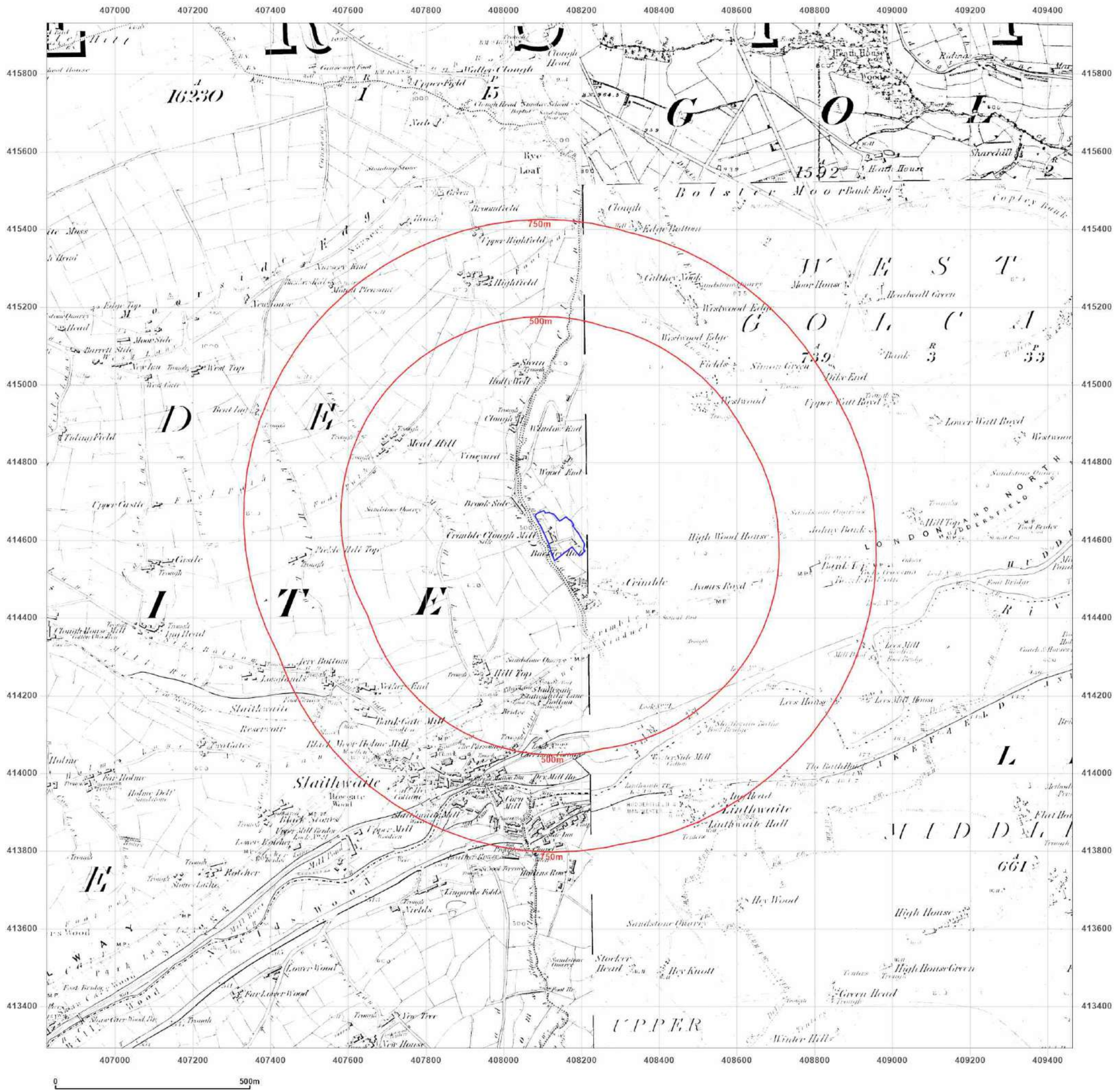
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

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

APPENDIX D

Groundsure Enviro+Geo Report



Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

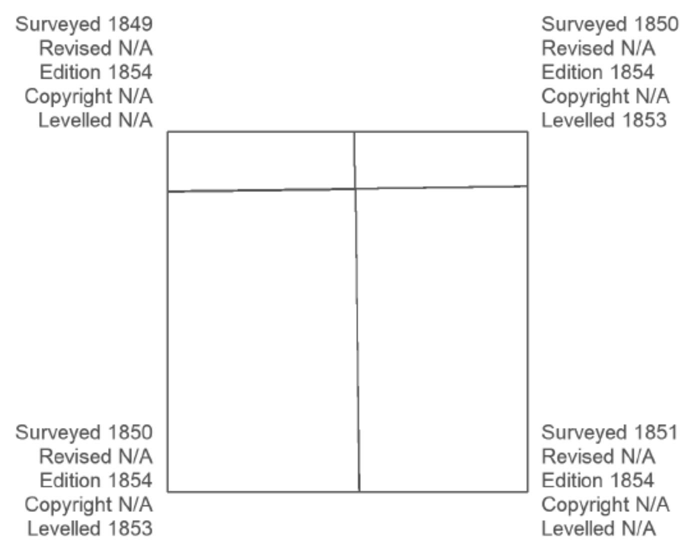
Map Name: County Series

Map date: **1854**

Scale: 1:10,560

Printed at: 1:10,560

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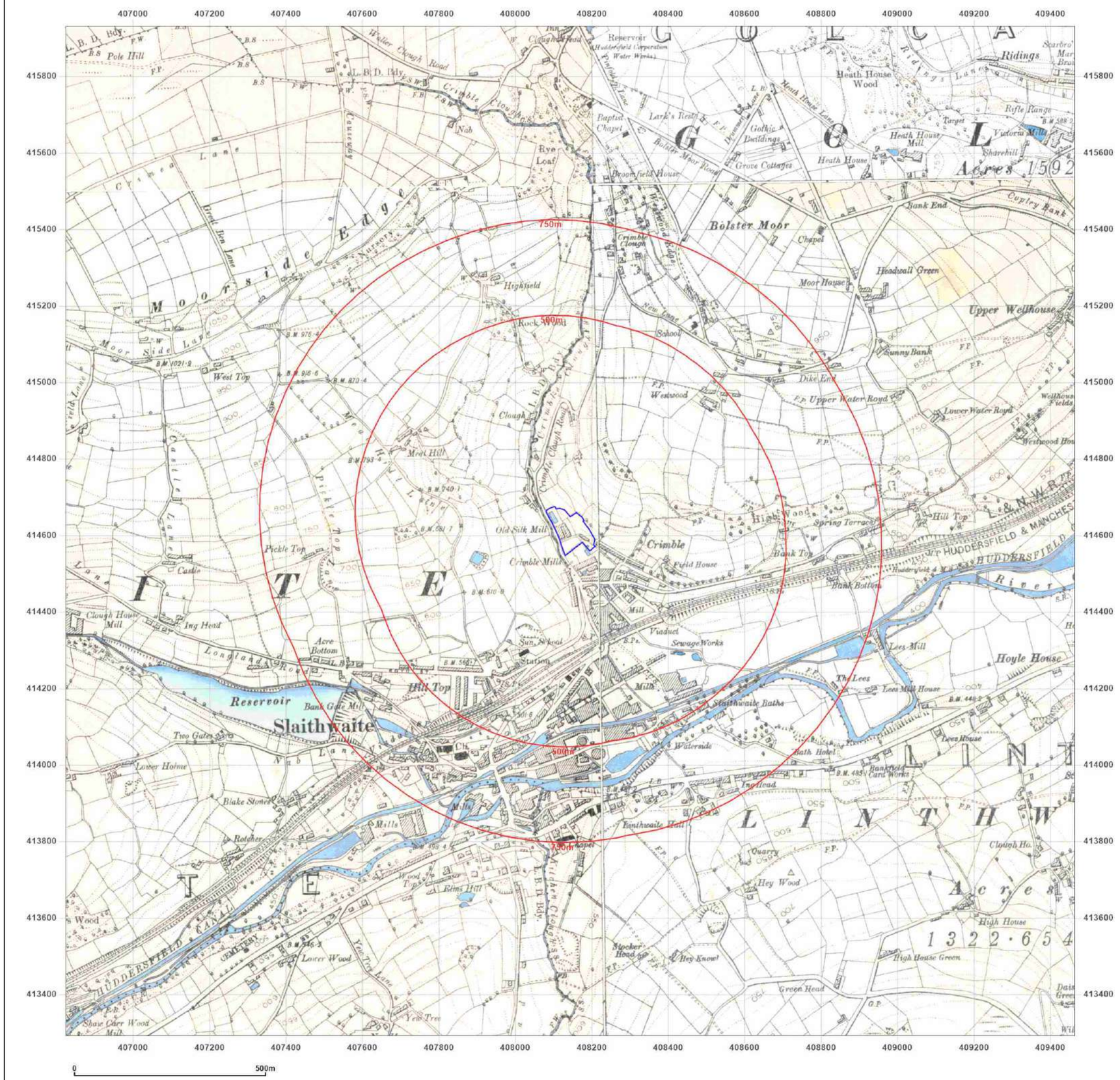
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Production date: 04 August 2025

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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: County Series

Map date: **1890-1892**

Scale: 1:10,560

Printed at: 1:10,560

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

Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

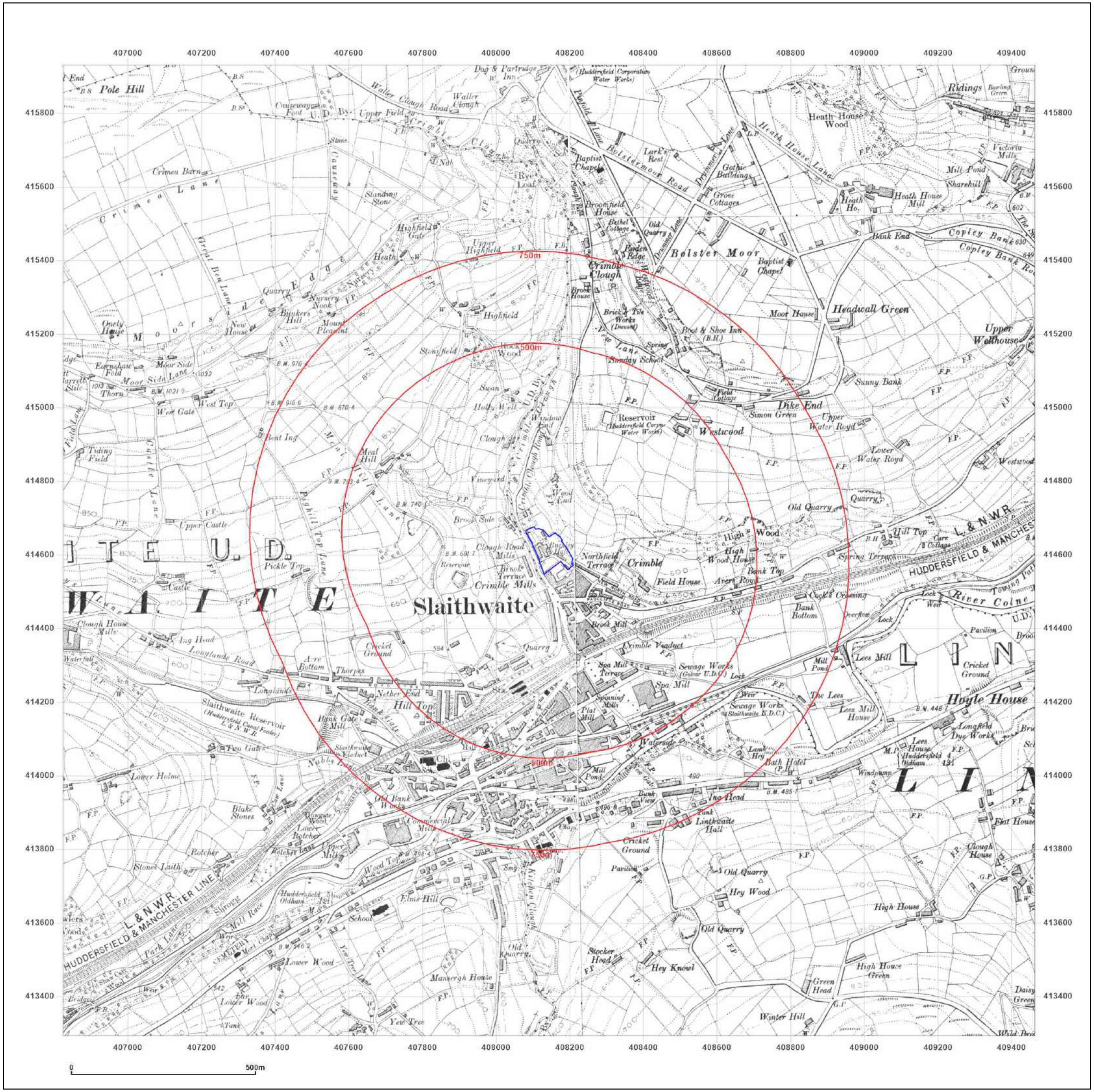
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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: County Series

Map date: **1904-1908**

Scale: 1:10,560

Printed at: 1:10,560

Surveyed 1892
Revised 1908
Edition 1908
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

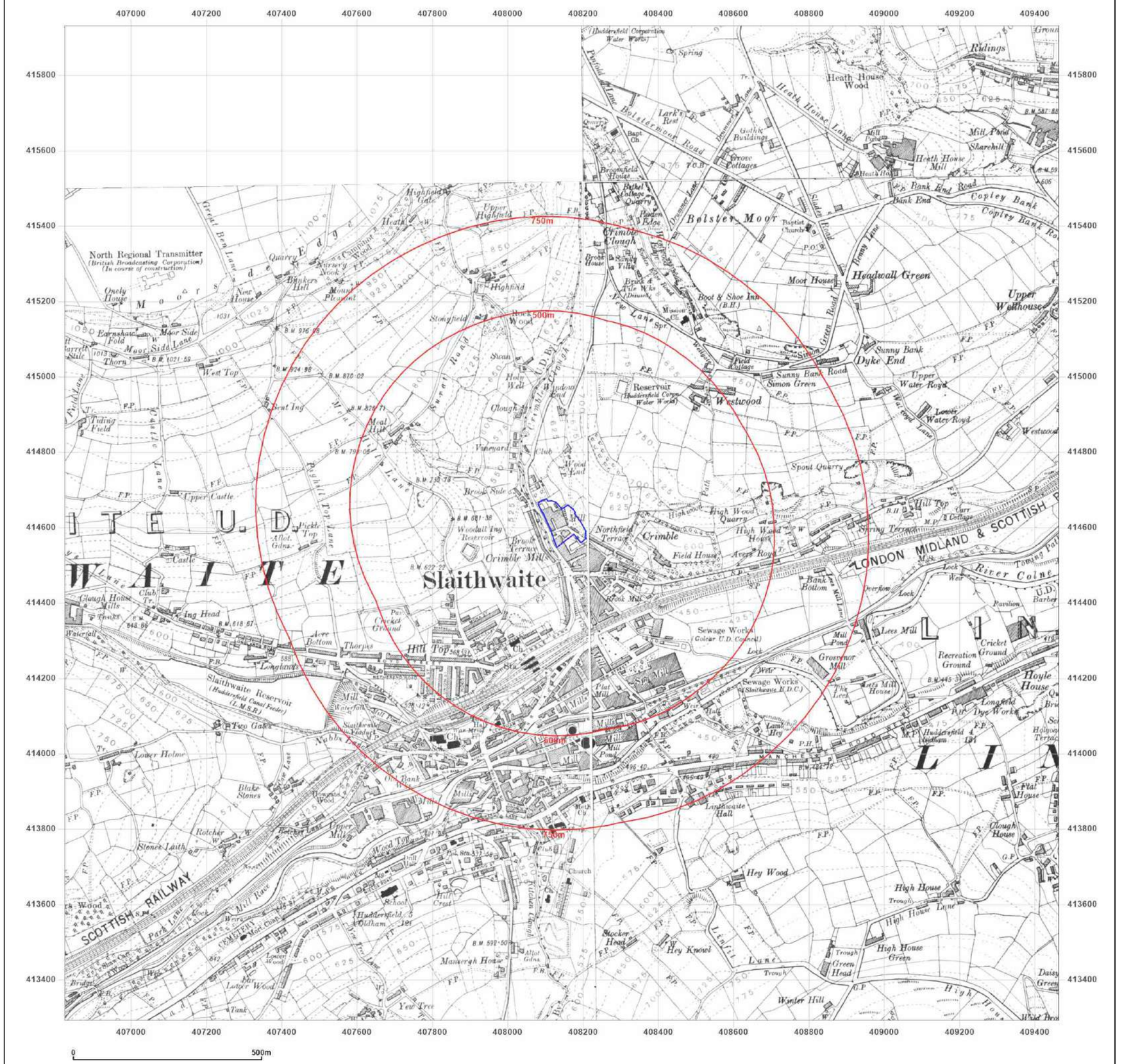
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: County Series

Map date: **1930**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1849
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1849
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1930
Edition N/A
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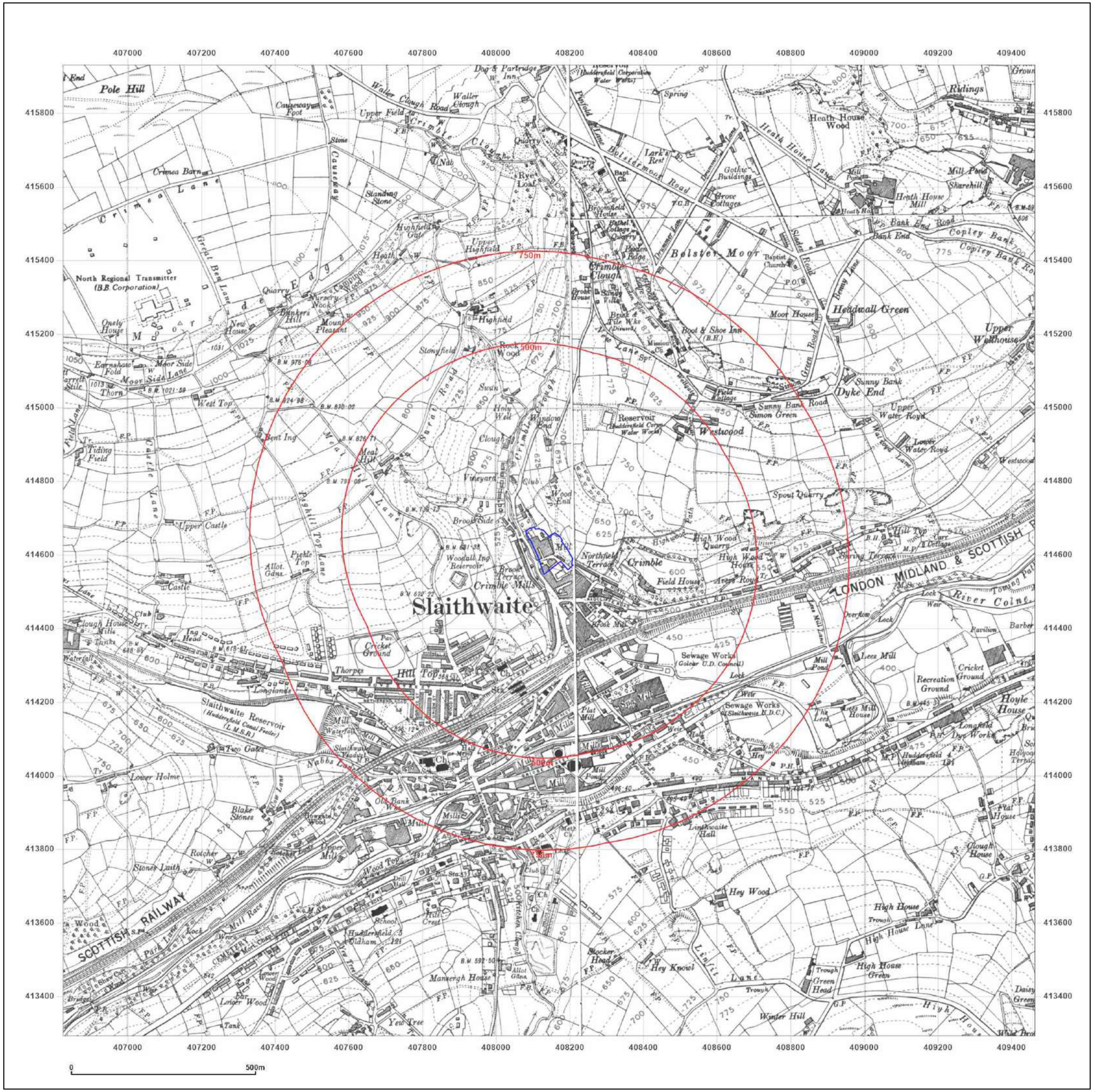
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1849 Revised 1948 Edition N/A Copyright N/A Levelled N/A	Surveyed 1849 Revised 1948 Edition N/A Copyright N/A Levelled N/A
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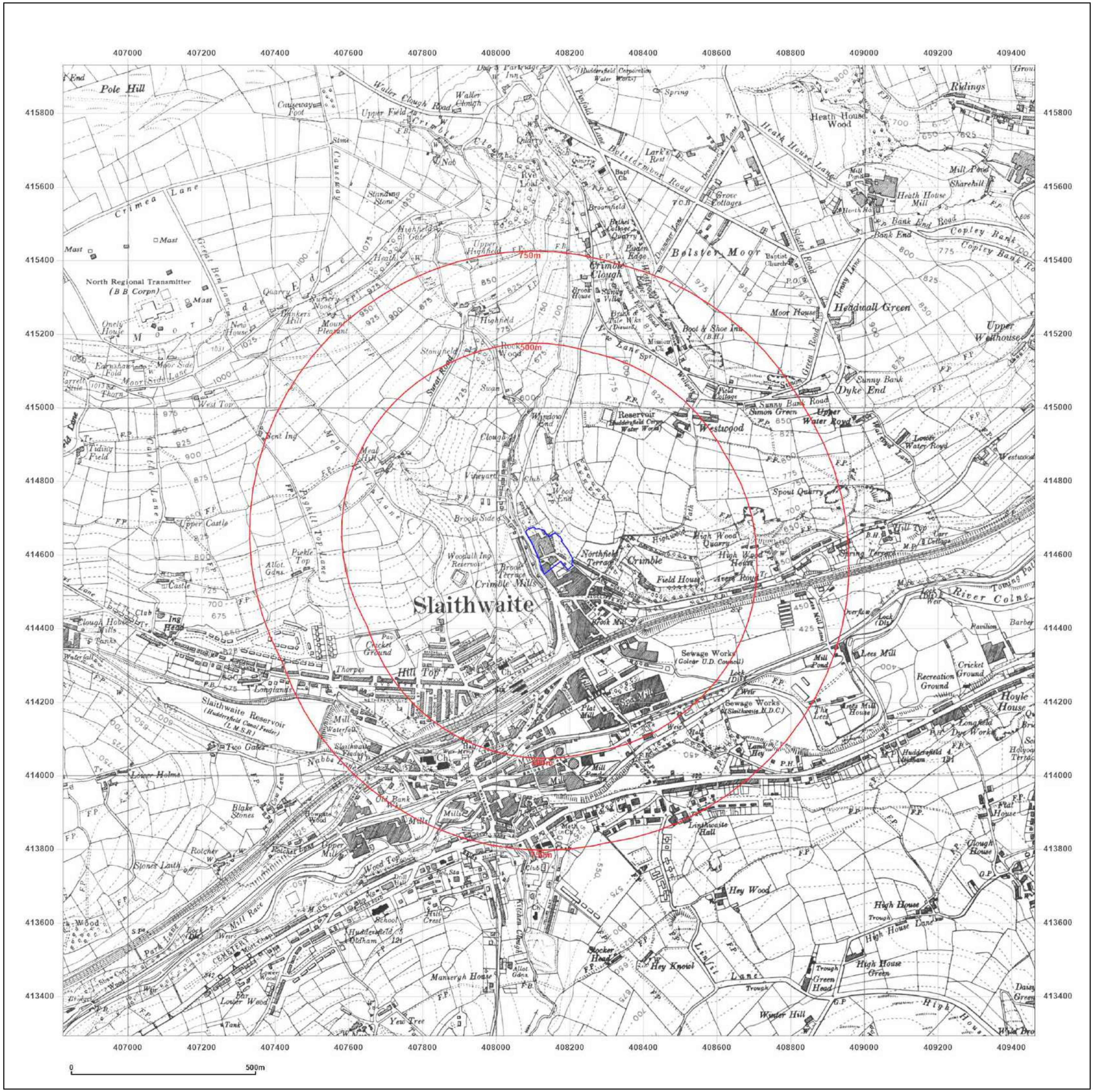
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Groundsure
INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: Provisional

Map date: **1955**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1951
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

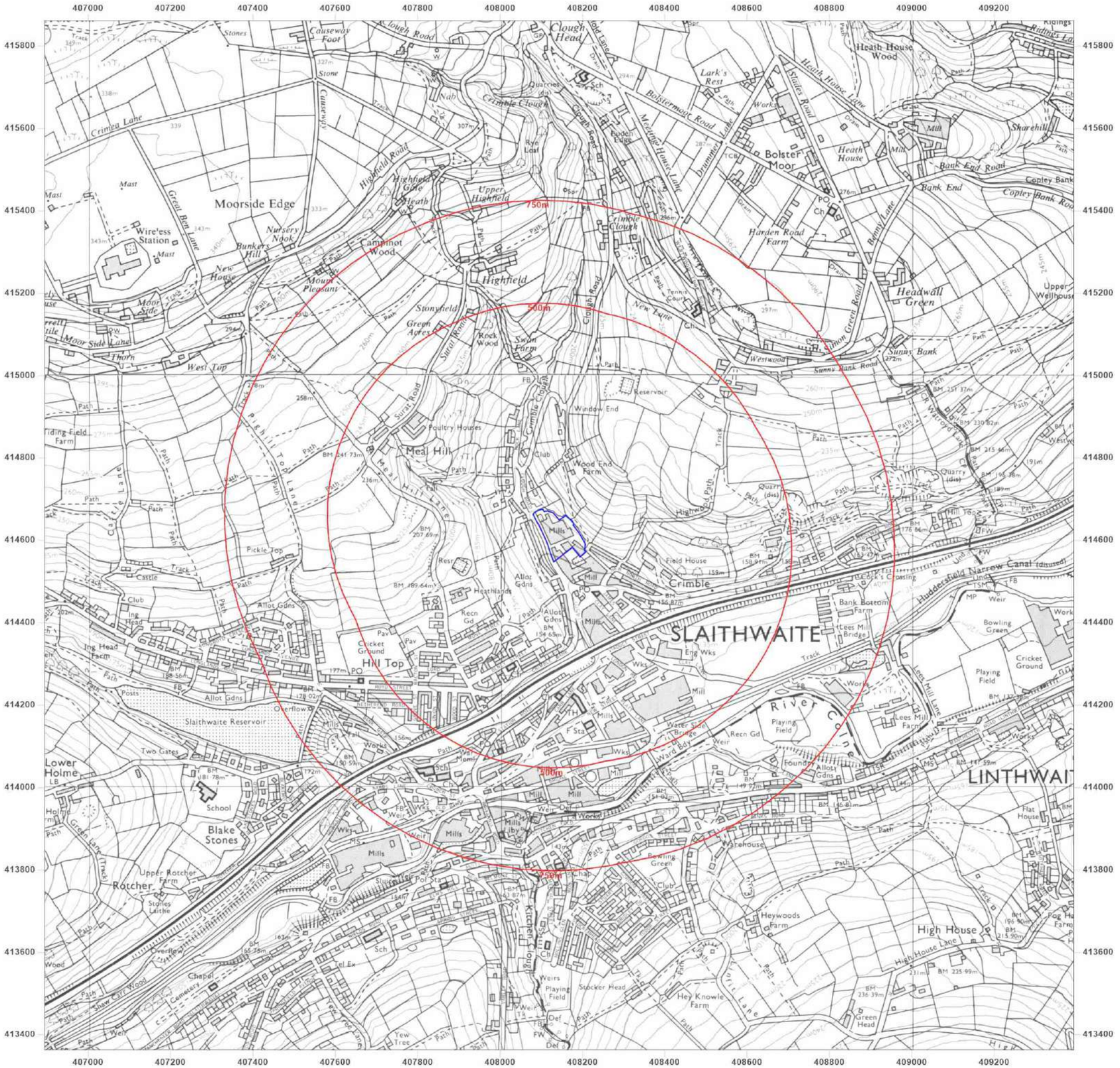
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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1978**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1977
Revised 1978
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1978
Revised 1978
Edition N/A
Copyright N/A
Levelled N/A

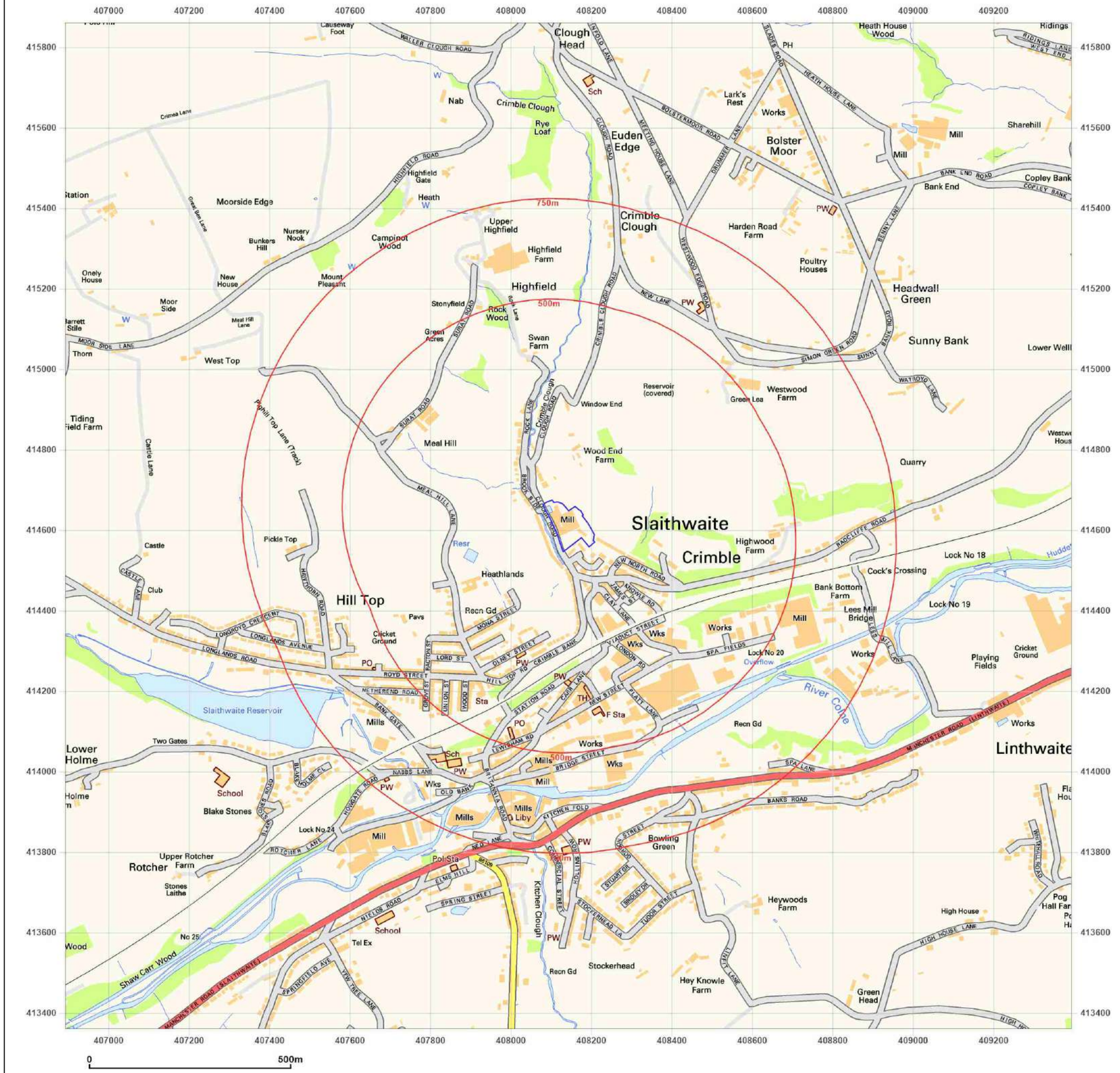
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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2001

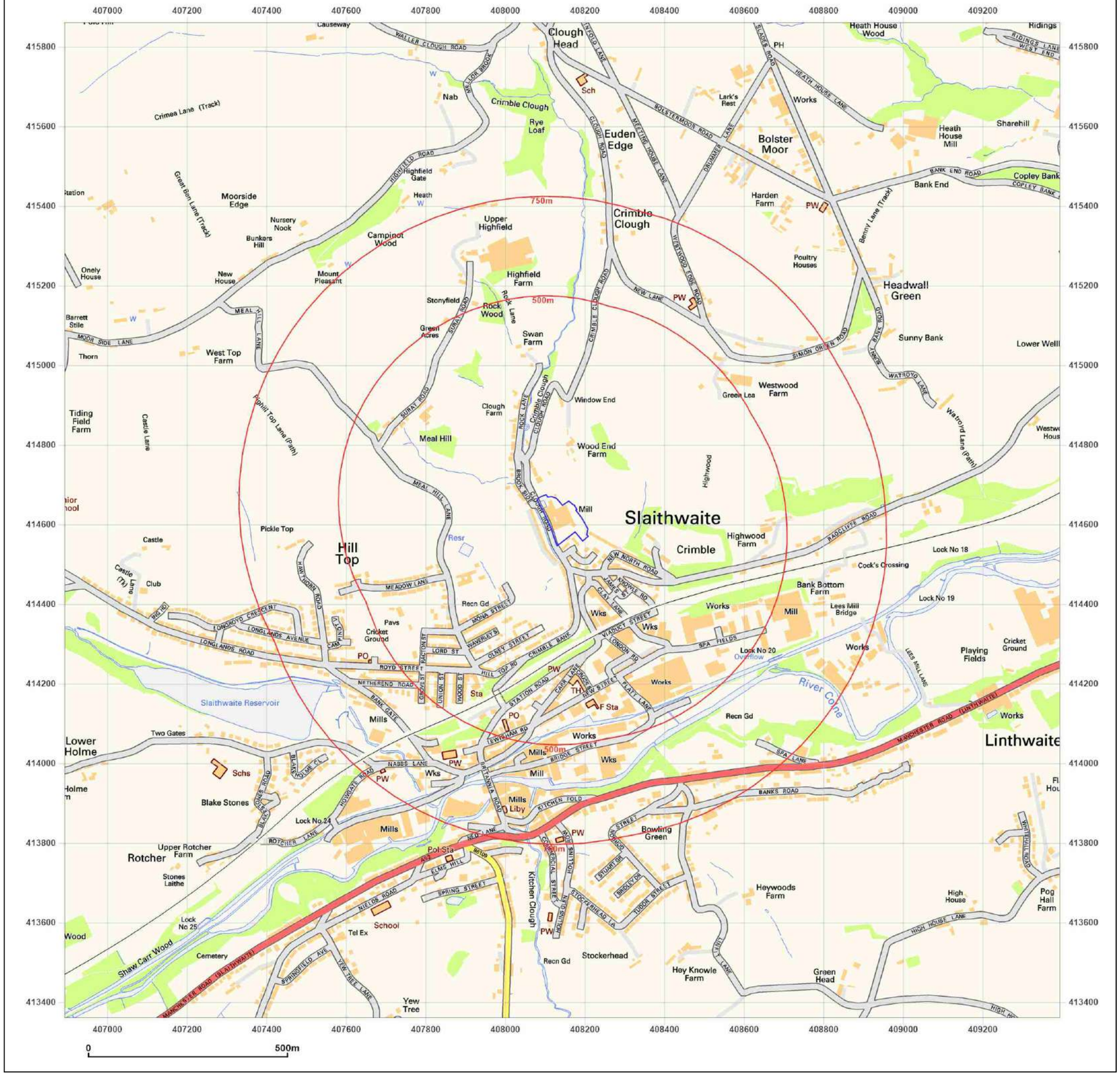
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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N W E S

2010

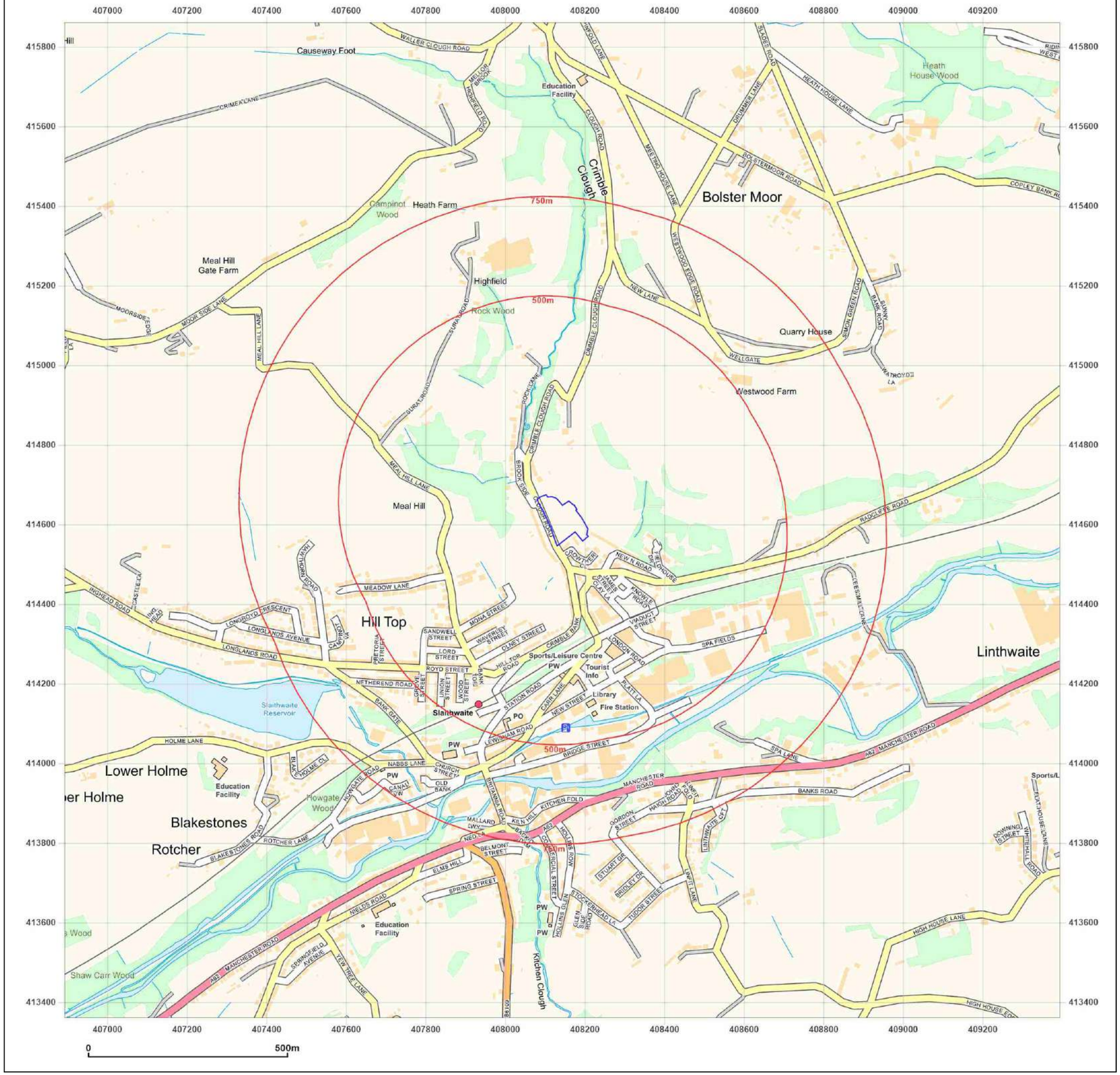
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2025

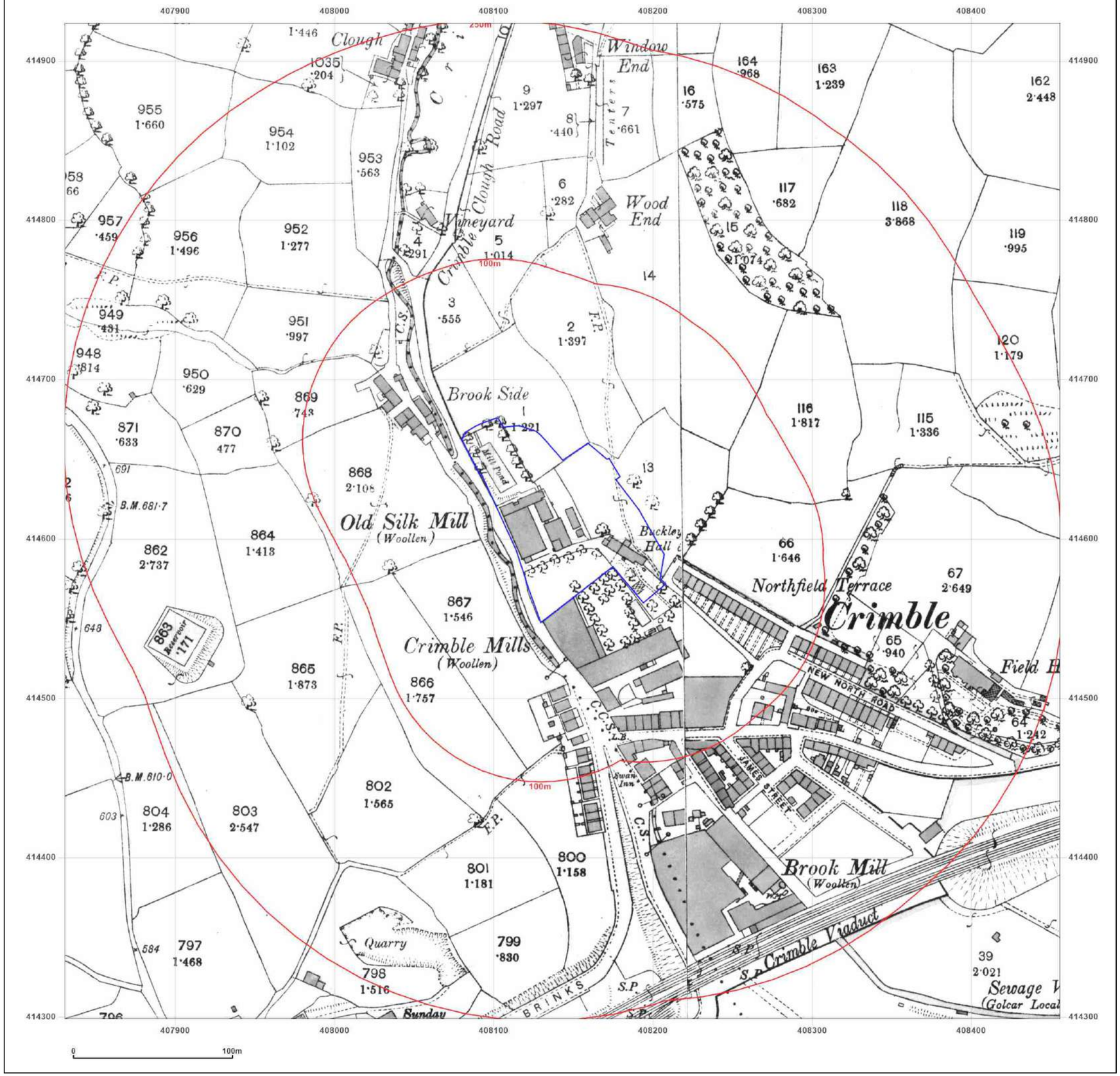
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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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

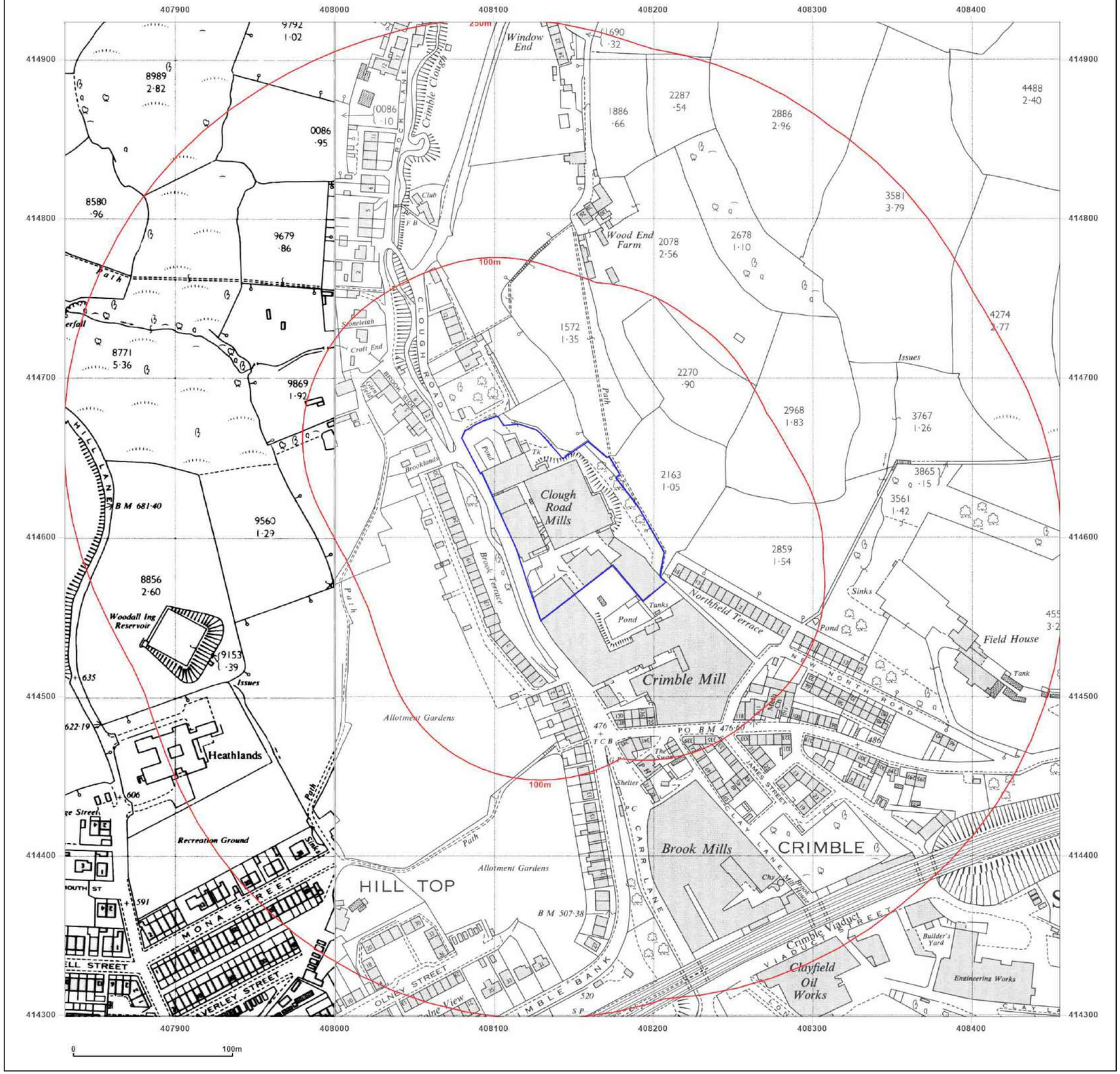
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Groundsure INSIGHTS

Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1968**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1967
Revised 1967
Edition N/A
Copyright 1968
Levelled 1959

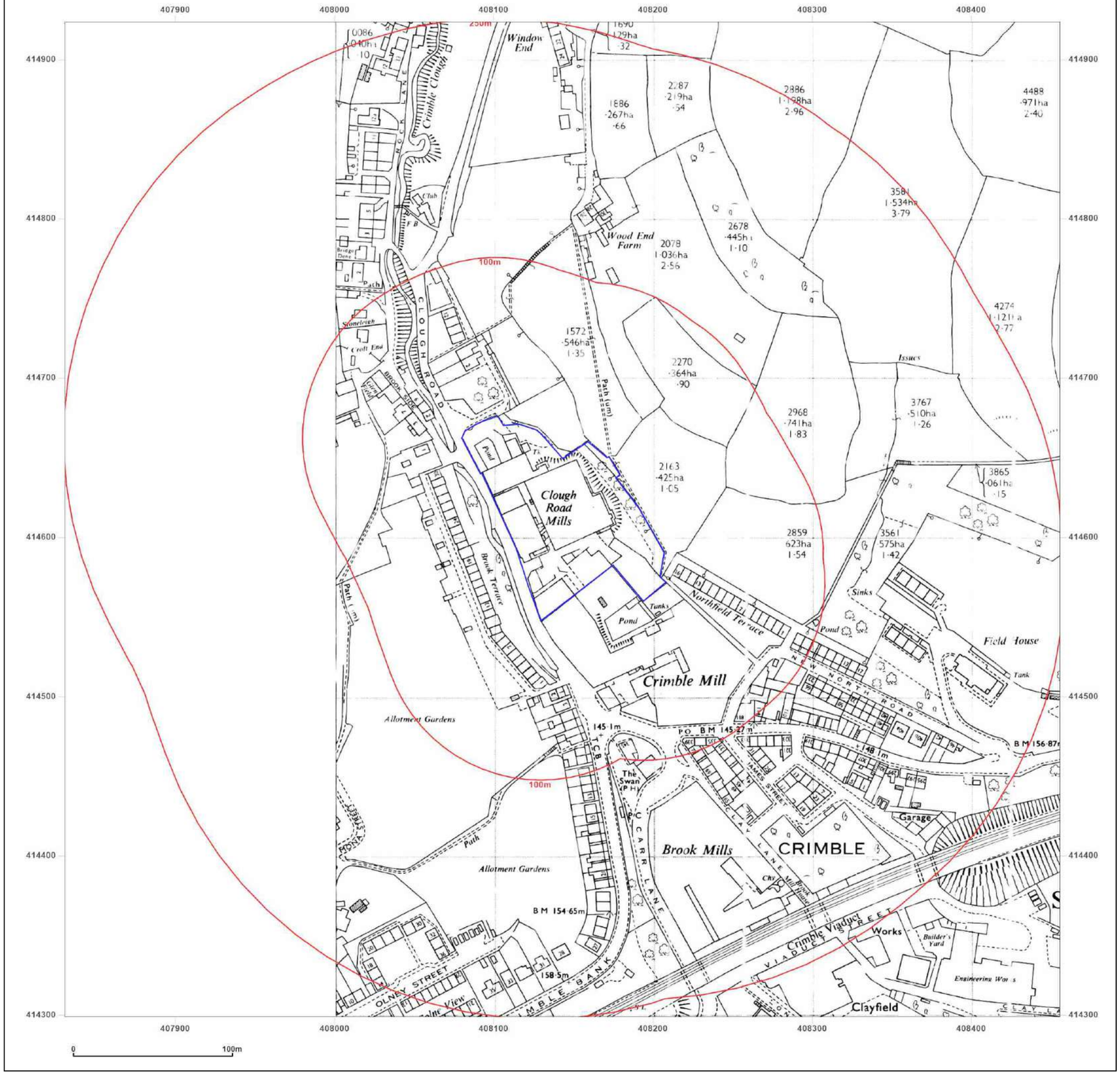
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

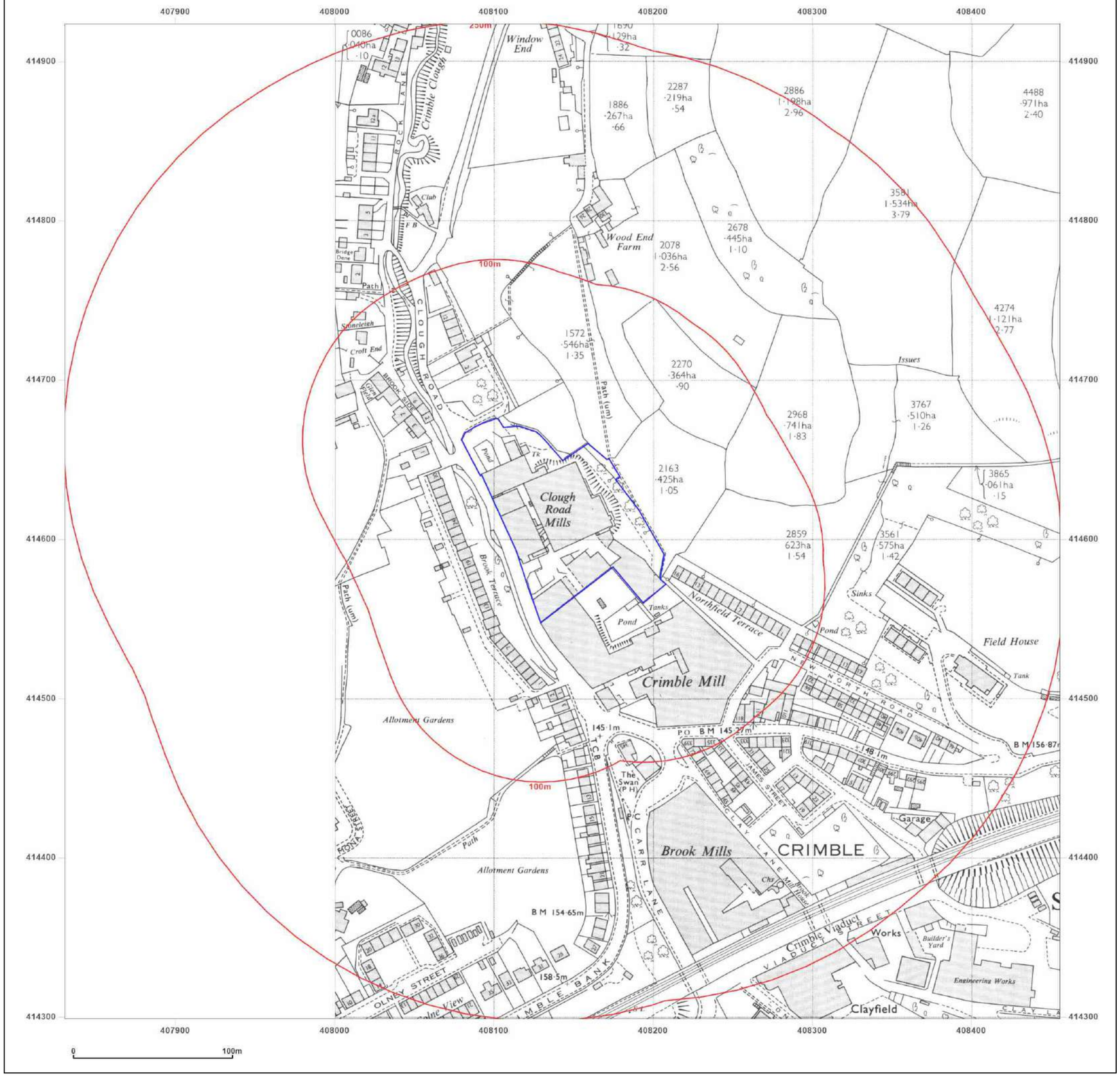
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1967
Revised 1977
Edition N/A
Copyright 1968
Levelled 1959

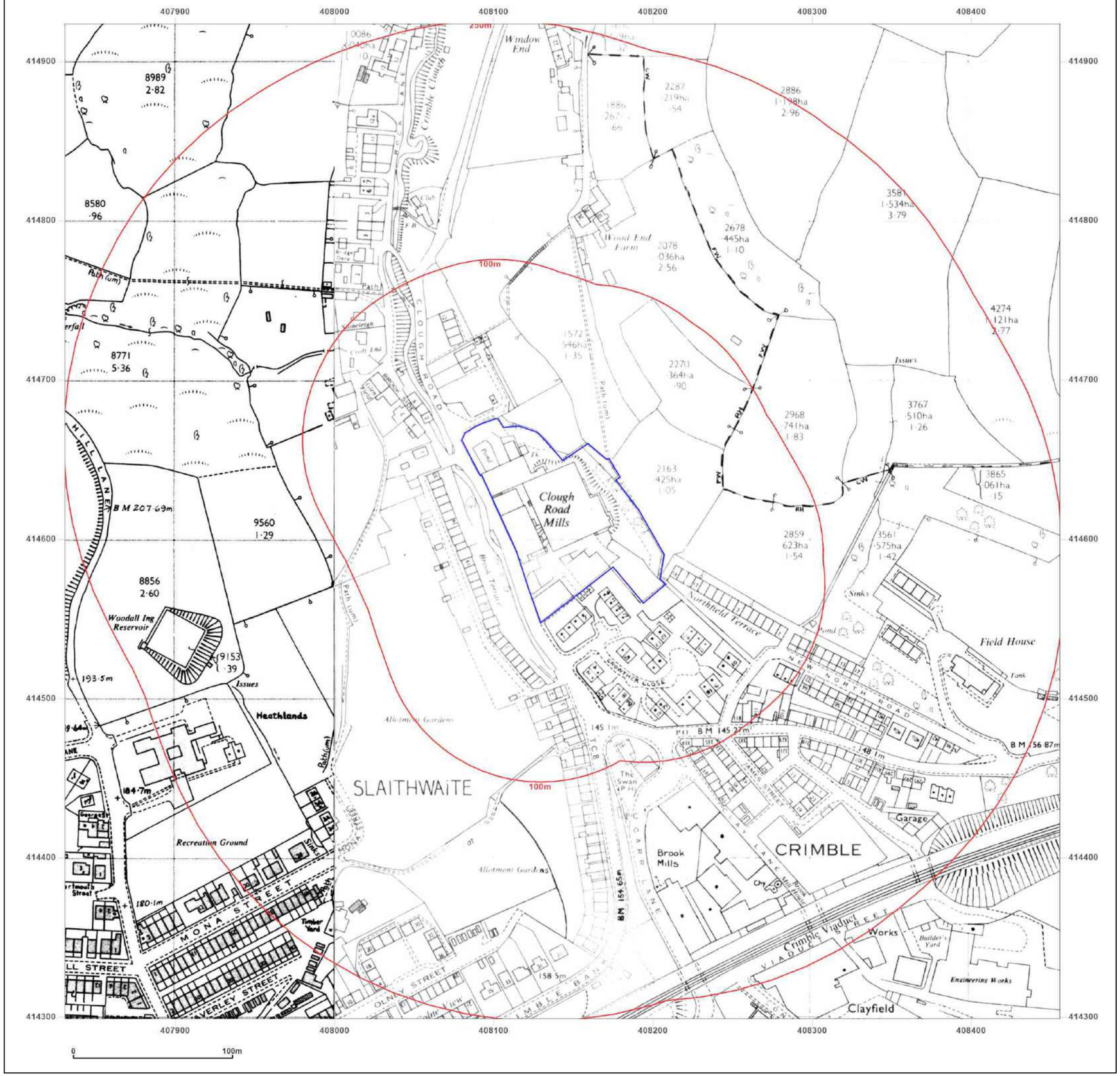
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1990-1992**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1962
Revised 1992
Edition N/A
Copyright 1992
Levelled 1962

Surveyed 1959
Revised 1990
Edition N/A
Copyright 1990
Levelled 1959

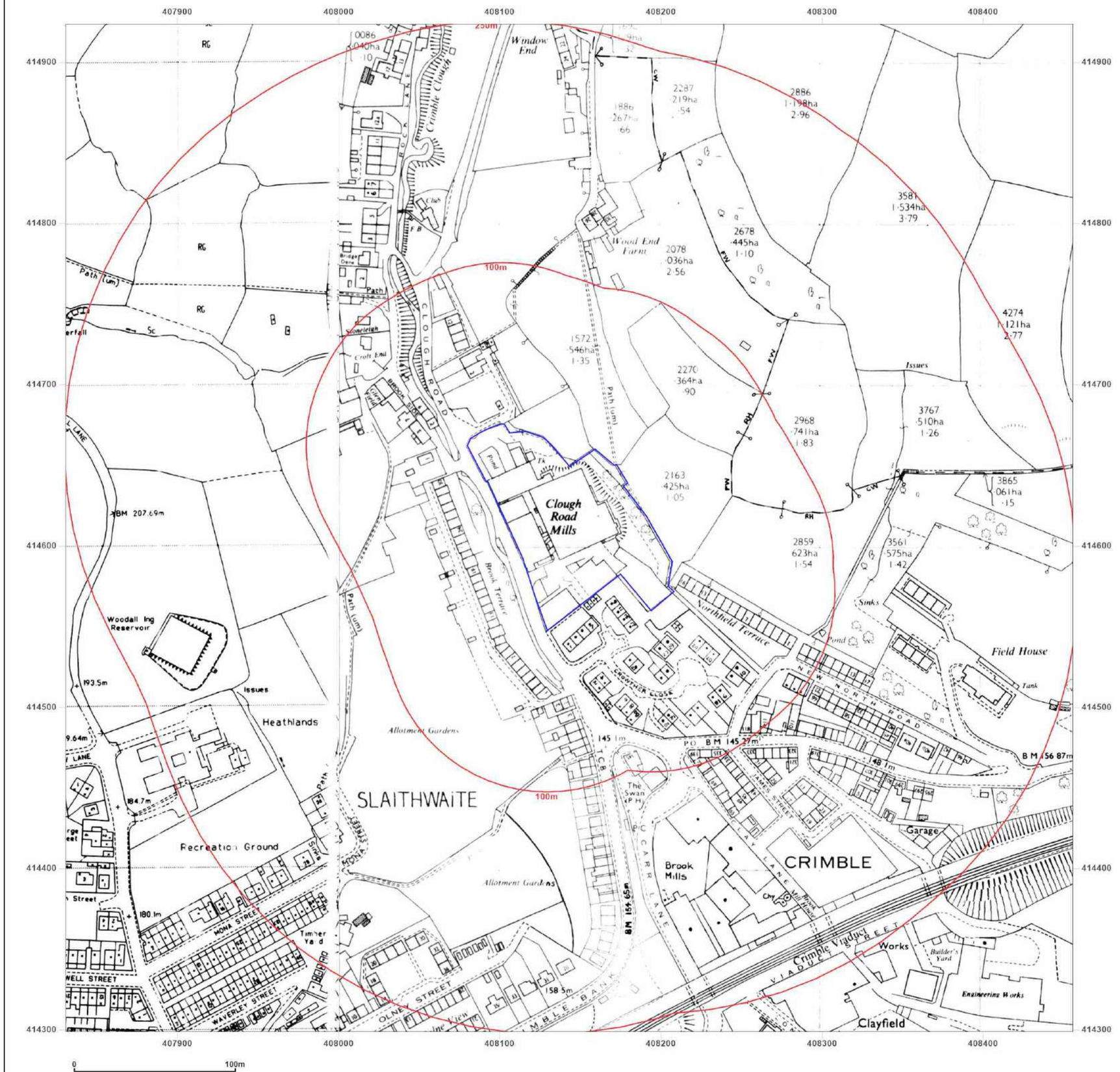
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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1959
Revised 1990
Edition N/A
Copyright 1990
Levelled 1959

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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1992-1994**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1994
Revised 1994
Edition N/A
Copyright 1994
Levelled N/A

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

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Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:2,500

Printed at: 1:2,500

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

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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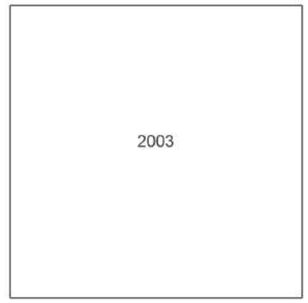
Site Details:

8187 Clough Road

Client Ref: 8187
Report Ref: GS-RBC-VEG-GMR-QHJ
Grid Ref: 408143, 414611

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

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