

Environmental
Geotechnical
Specialists



PHASE 1 ENVIRONMENTAL DESK STUDY & COAL MINING RISK ASSESSMENT REPORT

< ENVIRONMENTAL > < GEOTECHNICAL >

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Contents

| | | Page |
|----|---|------|
| 1. | Introduction | 1 |
| 2. | Review and Summary of Published Data | 2 |
| | 2.1 Historical Land Use | 3 |
| | 2.2 Published Geology and Geological Hazards | 3 |
| | 2.3 Construction Issues | 4 |
| | 2.3.1 Foundation Construction | 4 |
| | 2.4 Mining and Natural Cavities | 4 |
| | 2.4.1 Coal Mining Risk Assessment | 4 |
| | 2.4.2 Non-Coal Mining | 5 |
| | 2.5 Waste Management and Gas Monitoring | 5 |
| | 2.6 Hydrogeology, Hydrology | 5 |
| | 2.7 Sensitive Land Use | 7 |
| | 2.8 Industrial Land Use and Potential Sources of Contamination | 7 |
| 3. | Preliminary Qualitative Risk Assessment | 8 |
| | 3.1 Conceptual Ground Model & Preliminary Qualitative Risk Assessment | 9 |
| 4. | Intrusive Investigation | 13 |
| | 4.1 Environmental Investigation | 13 |
| | 4.2 Geotechnical Assessment | 13 |
| 5. | References | 14 |

Appendices

| | |
|----|--------------------------------|
| 1. | Site Plans |
| 2. | Historical Maps |
| 3. | Groundsure Reports |
| 4. | Photographs |
| 5. | Consultants Coal Mining Report |



Report on a Phase One Desk Study & Coal Mining Risk Assessment

Location: **2 Brewery Yard**
Fenay Bridge, Huddersfield, West Yorkshire HD8 0AR

For: Allsops Ltd

Report No. C5085/25/E/7746

Report date: April 2025

For and on behalf of **Rogers Geotechnical Services Ltd**



Rob Palmer MSc FGS ACIEH
Engineering Director



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Geo-environmental Technician

1. Introduction

It is understood that the development proposals currently comprise the renovation and conversion of an existing building associated with the former brewery to a residential property. In order to assist with this decision-making process, and any planning and construction aspects of the development, a phase one environmental desk study has been commissioned and is the subject of this report.

The site is approximately 0.1 hectares in size and its National Grid reference is centred around 418005, 415452. In accordance with issued guidance, a site walkover was conducted on the 21st March 2025 and the following observations were made:

General site description/current site use

The site comprises an unoccupied building associated with the former brewery. The building has numerous basements with some redundant brewing vats still in place. There is a well situated to the rear (east) of the building.

Site boundaries/access

The site is accessible via Brewery Yard off Fenay Lane.

Topography

The site slopes to the east and north-east (towards Fenay Beck which is present at the bottom of the slope).

Surface cover of site

The building is surrounded by landscaped (grassed) and paved areas. Topsoil and clay (natural) are exposed mostly.

Visible evidence of contamination/ contaminative sources

No distinct visible signs of contamination present during the time of the walkover.

Presence of vegetation and wildlife

Vegetation seems to be healthy with no evidence of degradation. There were no obvious signs of invasive flora, fauna, nesting birds, burrowing animals or edible plants observed during the time of the site walkover.

Services

The status of underground services is unknown. There were no overhead services present within the site at the time of the walkover.

Site neighbours

The site is surrounded by cottages.

In order to ensure that the site is fully characterised and to comply with the Environment Act 1995¹, a Phase One Desk Study has been commissioned by Allsops Ltd. The desk study is intended to assess the environmental impact of historical, current and future factors on the development. This report will present the data obtained and provide a conceptual ground model and preliminary risk assessment as well as discussing the scope of any intrusive investigation that may be required. This report does not consider ecological impacts (e.g. bats) or botanical risks (e.g. Japanese Knotweed).

2. Review and Summary of Published Data

As a part of this desk study the following data has been considered.

- Site Plan - Appendix 1
- Historical maps - Appendix 2
- Groundsure Reports - Appendix 3
- Photographs - Appendix 4
- Consultants Coal Mining Report - Appendix 5

The data obtained from the above-mentioned sources has been summarised below².

¹S57 of the Environment Act 1995 inserted the contaminated land regime into the Environmental Protection Act 1990 (Part 2A). The regime **'provides a risk-based approach to the identification and remediation of land where contamination poses an unacceptable risk to human health or the environment'** See <http://www.environment-agency.gov.uk/research/planning/40405.aspx>. This places a duty on local authorities to inspect their areas for contaminated land and require its remediation using the 'suitable for use' approach. Much of this duty is discharged via the planning regime under the Town and Country Planning Act 1990 as historical land contamination is a 'material planning consideration.' The local authorities are required to secure the removal of unacceptable risks via remediation of the land, to therefore ensure the site is suitable for its new use. This is fulfilled via completion of a Phase One Environmental Desk Study, Phase Two Intrusive Investigation, Phase Three Remediation Strategy and Phase Four Validation Report. Therefore, as a minimum, once a site has been developed it should not be capable of being designated as 'contaminated land' under Part 2A of the Environmental Protection Act 1990, as inserted by the Environment Act 1995 (see also PPS 23 Planning and Pollution Control Section 8)

² This report is a summary only and reference must be made in full to the information provided in the Groundsure Report.

2.1 Historical Land Use

Table 1: Historical Land Use³

| HISTORICAL MAPPING SUMMARY | | |
|----------------------------|---|---|
| Map Dates | On site | Within 250m |
| 1855 | The brewery exists and therefore was constructed prior to 1855. | Fenay Mills – 250m E. |
| 1893 to 1918 | The current building layout exists. | Fenay Mills (Woollen & Worsted) – 200m E (downslope and on the opposite side of Fenay Beck). |
| 1961 | Some small-scale demolition around the current building layout. Current building remains. | Fenay Bridge Nurseries – 50m to 100m S. Fenay Mills – 200m E (downslope and on the opposite side of Fenay Beck). |
| 1985 to 2003 | Layout remains unchanged. | Fenay Bridge Nurseries – 50m to 100m S. Tank associated with Nurseries (water rather than fuel) – 80m S. |
| 2007 to 2024 | Layout remains unchanged. | Nurseries redundant in 2017. ⁴ |

NB. All distances given are approximate only.

2.2 Published Geology and Geological Hazards

Table 2: Geological Data for the Site

| BGS MAPPING DATA | | | |
|---|---------------------------------------|----------------------------|--|
| Strata Type | Strata Name ⁵ | Previous Name ⁴ | Description ⁶ |
| Made Ground/Fill | N/A | N/A | Not indicated on site. |
| Superficial Geology | N/A | N/A | Not indicated to underlie the site. Alluvium present downslope. |
| Solid Geology | Pennine Lower Coal Measures Formation | Lower Coal Measures | Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part. |
| GEOLOGICAL FEATURES | | | |
| Type | Location | Features | Comments |
| Mining Activity | On site | Coal mining | The study site is located within the specified search distance of an identified mining area. |
| | | Non-coal Mining | No records within 250m. |
| NATURAL GROUND SUBSIDENCE & HAZARDS ⁷ | | | |
| Type | | Risk Rating | |
| Potential for shrinking or swelling clay ground stability | | Very low. | |
| Potential for running sand ground stability | | Low. | |

³ See Appendix 3

⁴ <https://www.examinerlive.co.uk/news/west-yorkshire-news/former-huddersfield-plant-nursery-set-20405309>

⁵ Sources: British Geological Survey (NERC) Map Sheets 77; Huddersfield; Solid and Drift Edition, and GeolIndex Onshore Viewer [online resource from www.bgs.ac.uk]

⁶ Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [online resource from www.bgs.ac.uk]

⁷ See Groundsure report

| | |
|--|---|
| Potential for compressible ground stability | Moderate. |
| Potential for collapsible ground stability hazards | Very Low. |
| Potential for landslide ground stability | Low. |
| Potential for ground dissolution stability | Negligible. |
| Radon | The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protective measures are necessary. |

2.3 Construction Issues

2.3.1 Foundation Construction

On the basis of the prevailing geology, and given the age of the building, it is anticipated that shallow strip or spread foundations shall remain suitable at this site. Settlement of the existing building should have already occurred. If loads are to significantly increase, then the performance of the existing footings should be validated.

2.4 Mining and Natural Cavities

2.4.1 Coal Mining Risk Assessment

The Groundsure Report states that the site is within an area that may be affected by coal mining. A Consultant’s Coal Mining Report has therefore been obtained that is included in Appendix 5 of this report and may be summarised as follows:

Table 3: Summary of the Consultant’s Coal Mining Report

| Has the report highlighted evidence or potential of: | | | |
|--|--------------------------------------|--------|--|
| Ref | Mining Feature | Yes/No | Comments |
| 1 | Underground Coal Mining | No | No past mining recorded. |
| 2 | Probable Unrecorded Shallow Workings | No | None. |
| 3 | Spine Roadways at Shallow Depth | No | No spine roadway recorded at shallow depth. |
| 4 | Mine Entries | No | None recorded within 100 metres of the site boundary. |
| 5 | Abandoned mine plans | Yes | See report. |
| 6 | Outcrops | No | No outcrops recorded. |
| 7 | Geological Faults | No | No faults, fissures or breaklines recorded. |
| 8 | Opencast Mines | No | None recorded within 500 metres of the enquiry boundary. |
| 9 | Coal Authority Managed Tips | No | None recorded within 500 metres of the enquiry boundary. |
| 10 | Site Investigations | No | None recorded within 50 metres of the enquiry boundary. |
| 11 | Remediated Sites | No | None recorded within 50 metres of the enquiry boundary. |

| | | | |
|----|--|----|---|
| 12 | Coal Mining Subsidence | No | The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31st October 1994. There is no current Stop Notice delaying the start of remedial works or repairs to the property. The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. |
| 13 | Mine Gas | No | None recorded within 500 metres of the enquiry boundary. |
| 14 | Mine Water Treatment Schemes | No | None recorded within 500 metres of the enquiry boundary. |
| 15 | Future Underground Mining | No | None recorded. |
| 16 | Coal Mining Licensing | No | None recorded within 200 metres of the enquiry boundary. |
| 17 | Court Orders | No | None recorded. |
| 18 | Section 46 Notices | No | No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence. |
| 19 | Withdrawal of Support Notices | No | The property is not in an area where a notice to withdraw support has been given. The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support. |
| 20 | Payments to Owners of Former Copyhold Land | No | The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994. |

The site is not indicated to be present within a high-risk development zone. Moreover, there are no mine entries present within 100m. It should be appreciated that the solid geology dips to the east. With reference to the geological map, the most local outcrops are to the east of the site and on the opposite side of Fenay Beck. Given the dip of the solid geology, these seams are not anticipated to be present beneath the site.

The risk to the stability of the proposed residential development has been evaluated from the data obtained and with reference to the following ratings and definitions:

- Low - The possibility of instability is unlikely therefore no further action is necessary.
- Moderate - The possibility of instability is likely and further investigation or remedial action may be required.
- High - The possibility of instability is highly likely and further investigation or remedial action will be necessary.

Table 4: Development Specific Risk Assessment

| Risk Attributed to | Feature(s) Considered | Risk Rating |
|------------------------|-----------------------|-------------|
| Shallow coal workings | N/A | Low |
| Coal workings at depth | N/A | Low |
| Mine gas | N/A | Low |
| Mine shafts | N/A | Low |

2.4.2 Non-Coal Mining

Localised small-scale surface mining may have occurred (i.e. for building materials). Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered.

2.5 Waste Management and Gas Monitoring

Table 5: Landfill Data and Artificial Ground, Recorded and Anticipated

| ENVIRONMENT AGENCY, LOCAL AUTHORITY, BGS & HISTORIC LANDFILLS | | | |
|---|-------------------------|---------------------------|------------------------|
| Waste Type | Location | Comments | Monitoring Requirement |
| Active Landfill | Within 250m | None recorded within 250m | - |
| Historic Landfill | 63m E | None recorded within 250m | - |
| Historic Waste Sites | 195m E | None recorded within 250m | - |
| Licensed waste sites | Within 250m | None recorded within 250m | - |
| Waste Exceptions | Within 250m | None recorded within 250m | - |
| MADE GROUND & INFILLED GROUNDWORKINGS | | | |
| Description | Location | Comments | Monitoring Requirement |
| Records of Potentially Infilled Features | Downslope to Fenay Beck | - | - |

2.6 Hydrogeology, Hydrology

Table 6: Ground/Controlled Water Sensitivity and Flooding

| ENVIRONMENT AGENCY AQUIFER DESIGNATION ⁸ | | |
|---|-------------|---|
| Strata | Designation | Description |
| Solid Geology 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. |
| GROUNDWATER SENSITIVITY ⁹ | | |
| Description | Location | Details |
| Source Protection Zone | - | None recorded within 250m. |
| Abstraction Licences | - | None recorded within 250m. |
| Records of Part A(2) and Part B | - | None recorded within 250m. |

⁸ See Appendix 2

⁹ See Appendix 2

| Activities and Enforcements | | | |
|---|---|--|---------------|
| CONTROLLED WATERS ¹⁰ | | | |
| Description | Location | Details | |
| River Network Entries | 100m NE | Fenay Beck – Inland River not influenced by normal tidal action. | |
| Surface Water Features | Within 250m | 4 surface water records present within 250m. Unknown type. | |
| POLLUTION INCIDENTS ¹¹ | | | |
| Pollutant | Receptor | Location | Date |
| Sewage | Water Category 2 (Significant) Land Category 4 (No Impact) | 147m NE | January 2017 |
| Sewage | Water Category 3 (Minor) Land Category 4 (No Impact) | 175m E | November 2003 |
| ENVIRONMENT AGENCY FLOOD RISK ¹² | | | |
| Description | Location | Details | |
| Zone 2 | - | The site is not situated within a Zone 2 flood plain. | |
| Zone 3 | - | The site is not situated within a Zone 3 flood plain. | |
| Flood Defences | 143m NE | Downslope towards Fenay Beck. | |
| Groundwater Flooding Area | - | Limited potential for groundwater flooding to occur. | |

2.7 Sensitive Land Use

Table 7: Sensitive Land Uses within 250m

| REGISTERED SENSITIVE LAND USES ¹³ | | |
|--|----------|-------------------------------------|
| Description | Location | Details |
| Green Belt Land | On site | South and West Yorkshire Green Belt |

2.8 Industrial Land Use and Potential Sources of Contamination

In order for a conceptual site model and preliminary risk assessment to be completed the historical maps and Groundsure data requires analysis to identify any past or present activities on the site and in the area that may have the potential to cause contamination on the site. Guidance has been issued by the Environment Agency, NHBC and Chartered Institute of Environmental Health.¹⁴ Within this document, annex 3 provides examples of important contaminants that are associated with individual uses of land. This data assists in the formulation of any chemical testing regime.

¹⁰ See Appendix 2

¹¹ See Appendix 2

¹² See Appendix 2

¹³ See Appendix 2

¹⁴ Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66: 2008 Volume 1 and 2.

Those that we consider potentially contaminative according to the guidance are given below:

| Table 8: Potentially Contaminative Sources | | |
|--|----------|----------------|
| HISTORICAL | | |
| Land Use | Location | Classification |
| Fenay Bridge Nurseries | 50m S | Allotments. |
| CURRENT | | |
| Land Use | Location | Classification |
| - | - | - |

3. Preliminary Qualitative Risk Assessment

The potential of contamination hazards on the land has been identified and the risks associated with them are assessed in the following preliminary risk assessment in accordance with industry practice and the 'suitable for use' approach. This has been conducted using the source-pathway-receptor approach. This method dictates that there must be a risk contaminant produced at a 'source' in sufficient concentration to cause harm and there must be a 'pathway' for the contaminant to reach an identifiable 'receptor' for the linkage to be proved and a contamination hazard to be considered present. Not all substances are contaminants and not all contaminants are considered to be a risk. Indeed, DEFRA and The Environment Agency state that **'a contaminant is a substance which has the potential to cause harm, while a risk itself is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.'**

R&D Publication 66: 2008 states that the groups at risk of harm (receptors) can be identified by the following categorisation:

1. Humans: site personnel, end users, visitors and adjacent land users.
2. The water environment – receptors: groundwater, surface water, coastal waters and artificial drainage.
3. Ecosystems: plants and animals.
4. Construction/building materials/services

In order to complete a conceptual site model and therefore a preliminary risk assessment, an appraisal of the sources of contamination, potential and actual, on and in the area of the site has therefore been completed with reference to this pollution linkage.¹⁵

¹⁵ This assessment has been based on the information as to the proposed development that has been provided by the client. If the plans should change, the assessment should be re-evaluated.

3.1 Conceptual Ground Model & Preliminary Qualitative Risk Assessment

It is understood that the development proposals currently comprise the renovation of the existing building to a residential property with external hard-standing and garden areas. In view of the sensitivity of the end users it is considered that the soil screening values (SSVs) for a residential with plant uptake end use should be employed.

The preliminary risk assessment has been evaluated with reference to the following ratings and definitions:

- N/A -** A source-pathway-receptor linkage is not considered to exist and therefore a risk assessment is not required.
- Low -** A pollution linkage is unlikely and/or the likelihood of harm occurring is low and of minor consequence.
- Moderate -** The linkage exists but further field or laboratory data is required to confirm that the contaminant has reached the receptor and the levels of contaminant are harmful.
- High -** The linkage exists and the available data indicates that significant harm may be caused and remedial action could be necessary.

| Table 9: Conceptual Site Model and Preliminary Qualitative Risk Assessment | | | | |
|--|------------|---|-----------------------------|---|
| CONCEPTUAL SITE MODEL | | | PRELIMINARY RISK ASSESSMENT | |
| Pathways | Receptor | Linkage Present? | Risk Rating | Notes |
| Direct contact/dermal absorption/soil ingestion | Operative | Yes – operatives are likely to come in contact with the soil. However, no significant contaminative sources have been identified. | Low | Should visual or olfactory evidence of contamination be identified during the groundworks phase, then contamination testing should be undertaken and the CSM updated accordingly. |
| | End User | Yes – end users are likely to come in contact with the soil. However, no significant contaminative sources have been identified. | Low | |
| | Neighbours | No – no significant on-site sources of contamination identified. | N/A | |
| Inhalation of Dust/Vapours | Operative | Yes – operatives are likely to come in contact with the soil. However, no significant contaminative sources have been identified. | Low | Should visual or olfactory evidence of contamination be identified during the groundworks phase, then contamination testing should be undertaken and the CSM updated accordingly. |
| | End User | Yes – end users are likely to come in contact with the soil. However, no significant contaminative sources have been identified. | Low | |
| | Neighbours | No – no significant on-site sources of contamination identified. | N/A | |
| Ingestion of fruit/vegetables and/or waters | Operative | No – no edible plants in the area of the proposed new works. | Low | Should visual or olfactory evidence of contamination be identified during the groundworks phase, then contamination testing should be undertaken and the CSM updated accordingly. |
| | End User | Yes – soft landscaping proposed as part of the new development. | Low | |
| | Neighbours | Yes – residential dwellings present within 250m of the proposed development. | N/A | |

| | | | | |
|---|--------------------|---|-----------------|---|
| Migration of hazardous gases via permeable strata | Operative | No – limited possible off-site and on-site sources. | N/A | If significant made ground considered capable of producing harmful gases is revealed during the groundworks, then a monitoring regime may be necessary and the CSM updated accordingly. |
| | End User | | N/A | |
| | Neighbours | | N/A | |
| Spillage/loss/run off direct to receiving water | Controlled Waters | Yes – controlled waters within 250m. However, no significant contaminative sources have been identified. | Low | Should visual or olfactory evidence of contamination be identified during the groundworks phase, then contamination testing should be undertaken and the CSM updated accordingly. |
| Migration via permeable unsaturated strata | Controlled Waters | Yes – Secondary A aquifer beneath the site. However, no significant contaminative sources have been identified. | Low | |
| Run off via drainage/sewers etc | Controlled Waters | Yes – drains and well on site. However, no significant contaminative sources have been identified. | Low | |
| Direct contact with contaminated soils | Plants | Yes – some soft landscaping areas may be present as part of the proposed development. However, no significant contaminative sources have been identified. | Low | Should visual or olfactory evidence of contamination be identified during the groundworks phase, then contamination testing should be undertaken and the CSM updated accordingly. |
| Uptake via root system | | | Low | |
| Direct contact with contaminated soils/ Direct contact with contaminated groundwater | Building Materials | Yes – foundation and service installation materials may be affected by the site soil. | Low to Moderate | Further testing recommended to reach a firm conclusion. |

| | | | | |
|--|-----------|--|-----|--|
| Migration of mine gas via permeable strata | Operative | No – not in an area affected by shallow mine workings. | Low | |
| | End User | | | |
| Exposure to Radon | Operative | Yes – site currently indicated to be present in a low risk radon affected area ¹⁶ . | Low | Less than 1% of properties are affected. The publication BR211 states that no protection measures are necessary. |
| | End User | | | |

Notes:

1. The above data and table is a qualitative assessment of the probable risks identified at this site, based on the information made available to us from the client, third party professional data and walkover survey.
2. Should any additional or new data come to light, the risk assessment should be revisited and any necessary changes made to any recommendations resulting from this study.
3. Where further testing is recommended as part of the risk assessment, this is in order to provide a quantitative assessment of any contamination issues. It should at all times be considered that uncertainties may remain, and therefore any testing regime and ground investigation philosophy should be ready to accommodate any necessary alterations should any data come to light or it become evident that it has not been previously considered.

¹⁶ Radon interactive map [online resource <https://www.ukradon.org/radonmaps/>] It should be appreciated that radon maps are subject to change and are updated regularly.

4. Intrusive Investigation

4.1 Environmental Investigation

The information from the Phase 1 Desk Study shows that there are no possible sources of contamination on the site and in the surrounding area. In view of the above, it is not considered necessary to undertake an intrusive *geo-environmental* investigation. However, it is recommended that a geotechnical ground investigation be completed in order to obtain geotechnical information, as this will facilitate the safe design of the foundations for the proposed development.

It is also incumbent upon the developer to carefully inspect any exposed soil during the groundworks phase of the contract. Should any contamination become evident or organic made ground be revealed, it is recommended that a pragmatic approach be adopted, with observational techniques being employed at each stage of the work. In the unlikely event that contamination is revealed, work should stop in the affected area and chemical testing be undertaken to evaluate the risk of harm to the receptors. In the event that this occurs it is recommended that the following testing regime be implemented on soil samples:

- **Metals** – Cd, Cr, Cu, Hg, Ni, Pb, Zn, V.
- **Semi Metals and Non Metals** – As, Se, Free Cyanide and Phenols.
- **Hydrocarbons** – Polycyclic aromatic hydrocarbons (PAH's) 16 EPA, Total petroleum hydrocarbons (TPH CWG)
- **Others** – pH, Organic Content.

4.2 Geotechnical Assessment

It may be prudent to undertake a geotechnical investigation to assess the current foundations, for instance if foundation loads are to increase. It is anticipated that trial pits or windowless sample boreholes would prove most suitable.

As soon as is practicable, and prior to the above, this Phase 1 report should be forwarded to the relevant authorities, in order to ensure they have sufficient time to review and discuss any issues.

5. References

- British Standards Institution (2015), BS5930 2015 + A1:2020: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2007), Amendment No 1 to BS5930: *Code of practice for ground investigations*, B.S.I., London.
- British Standards Institution (2011) +A2:2017, BS 10175: *Investigation of potentially contaminated sites – Code of Practice*, British Standards Institute.
- British Standards Institution (2013), BS 8576 Guidance on Investigations for Ground Gas – Permanent Gases and Volatile Organic Compounds.
- Department for Environment, Food and Rural Affairs and the Environment Agency, DEFRA R&D Publications, Environment Agency, Bristol.
- CLR 2, 1994, *Guidance on preliminary site inspection of contaminated land*, Volume 1.
- CLR 4, 1994, *Sampling Strategies for contaminated land*.
- R&D Publication 66: 2008 Guidance for the Safe Development of Housing on Land Affected by Contamination.
- CIRIA Report C665 (2007), *Assessing risks posed by ground gasses in buildings*.
- The Environment Agency: *Groundwater source protection*.

Appendix 1

Site Plans



Fenay Ln

Fenay Ln

Eden - Air

Brewery Yard

Fenay Ln

Brewery Yard

2

16

12

8

5

Appendix 2

Historical Maps

Site Details:

2, BREWERY YARD, FENAY
BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

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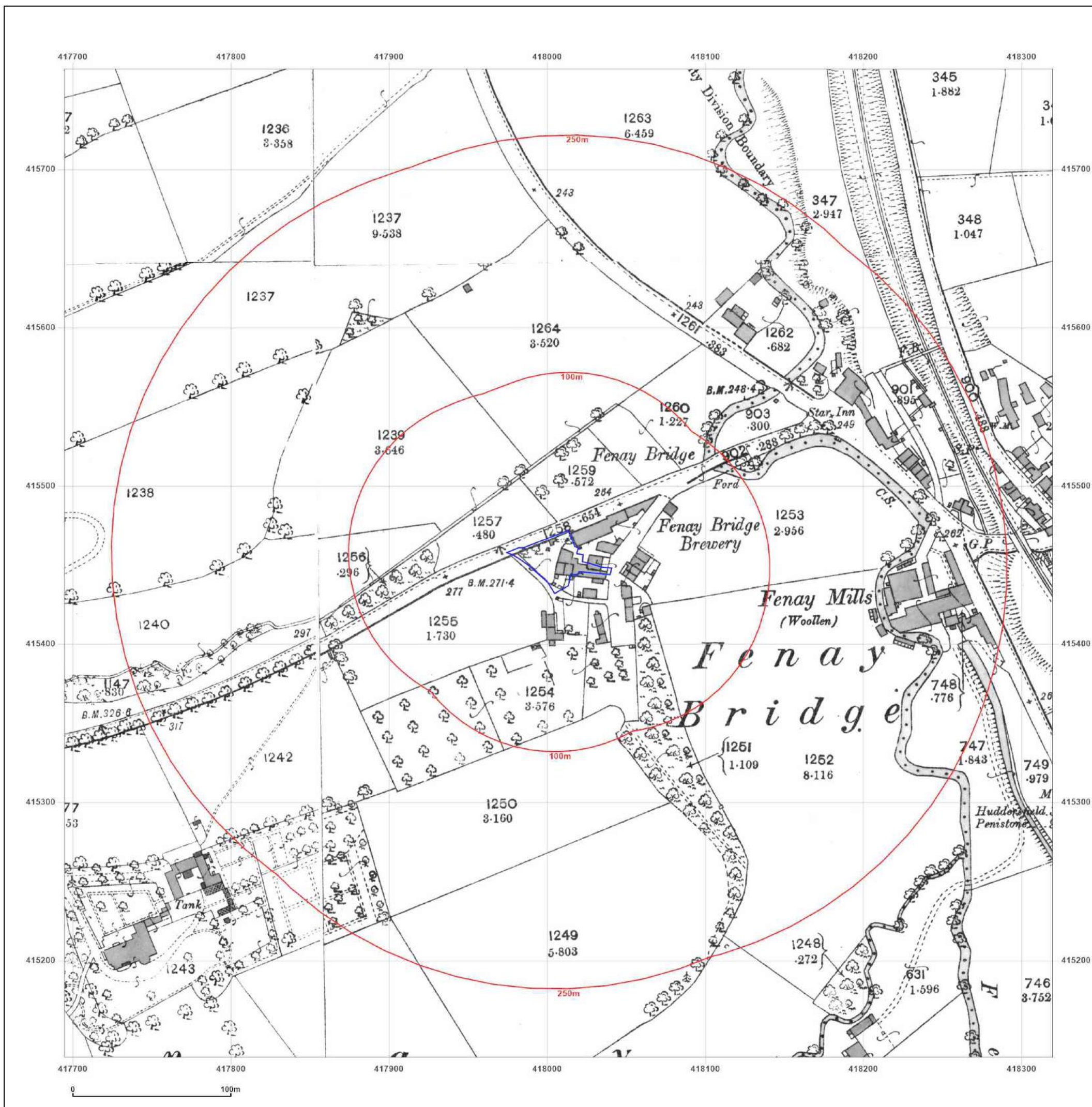


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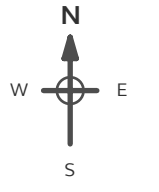
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Map Name: County Series

Map date: 1906-1907

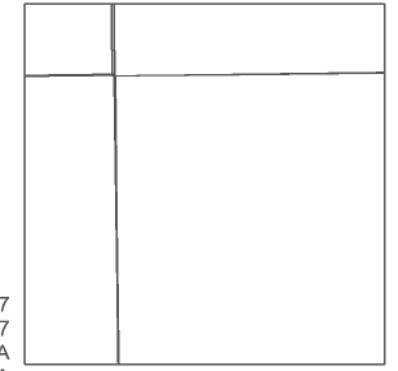
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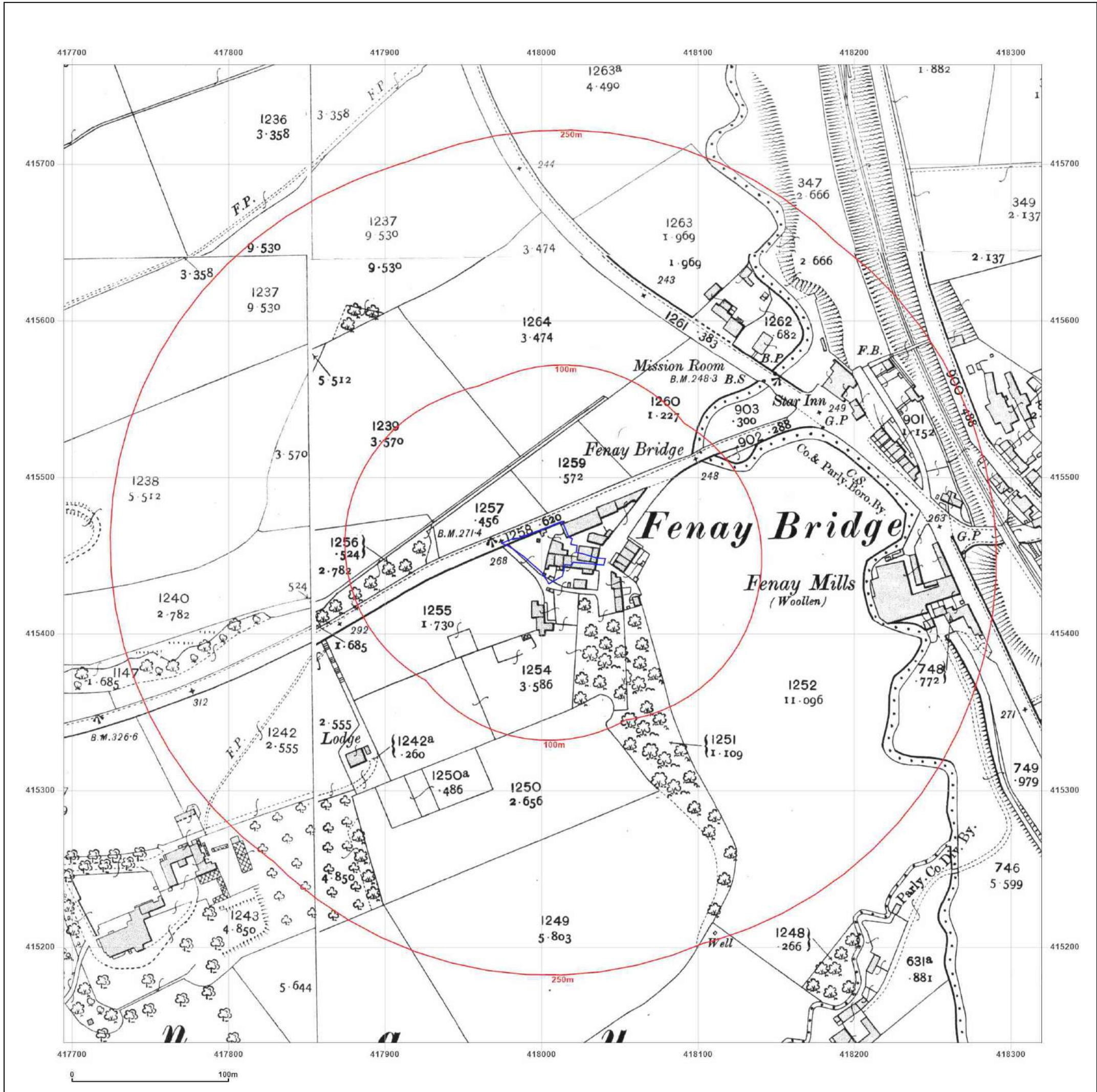


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Production date: 11 April 2025

Map legend available at:
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Site Details:

2, BREWERY YARD, FENAY BRIDGE, HUDDERSFIELD, KIRKLEES, HD8 0AR

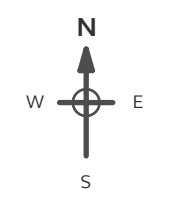
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Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

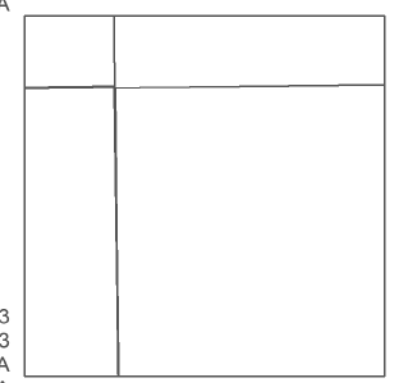
Map date: 1913-1918

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1918
 Revised 1918
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1891
 Revised 1913
 Edition 1916
 Copyright N/A
 Levelled 1914

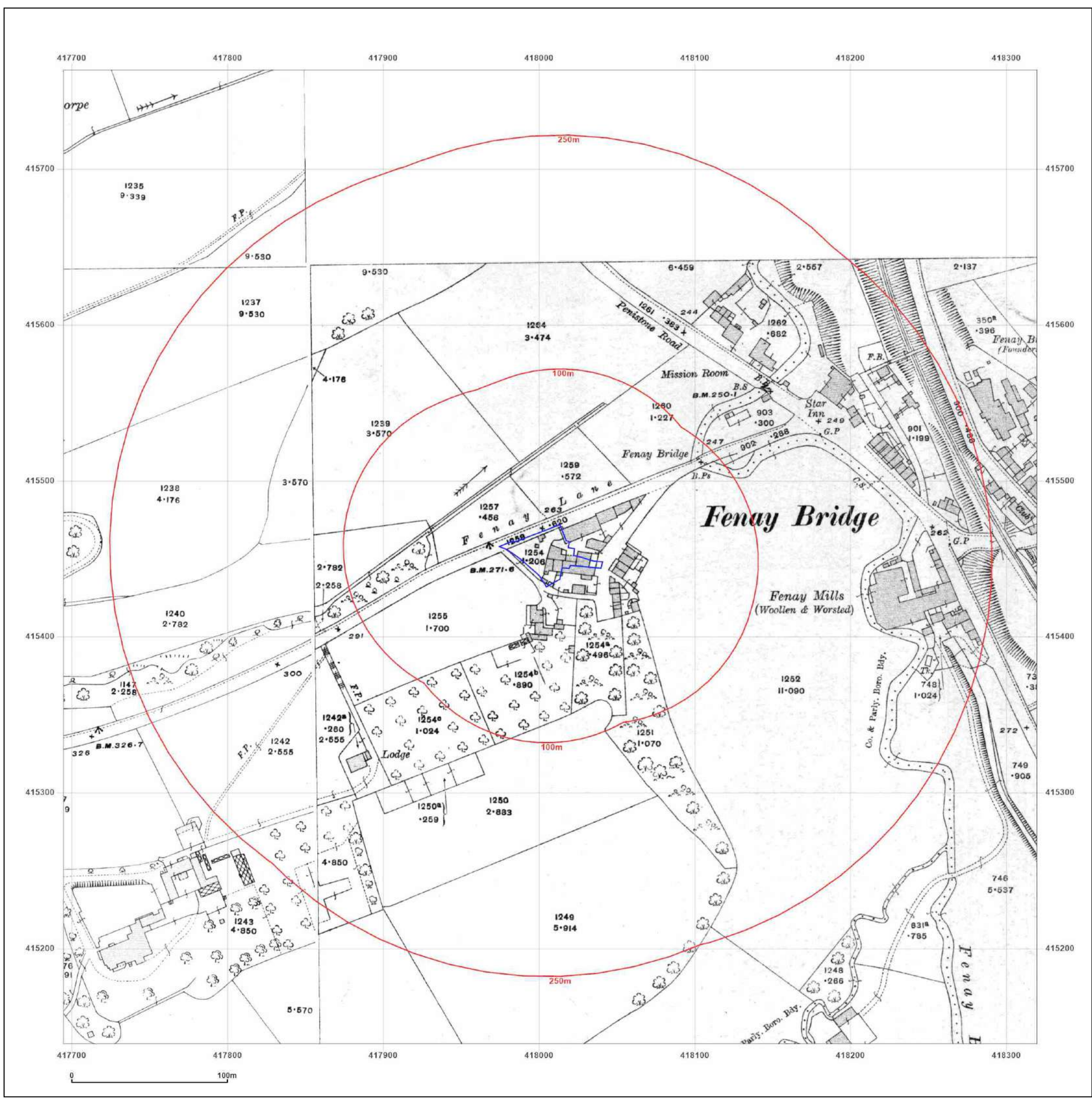


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Site Details:

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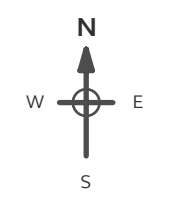
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Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1932

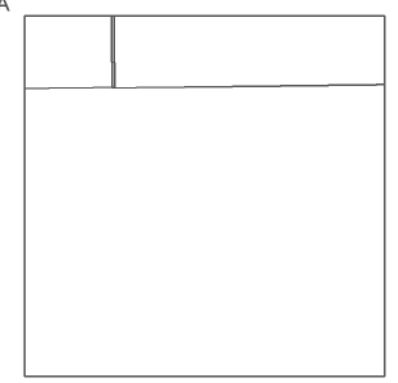
Scale: 1:2,500

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

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

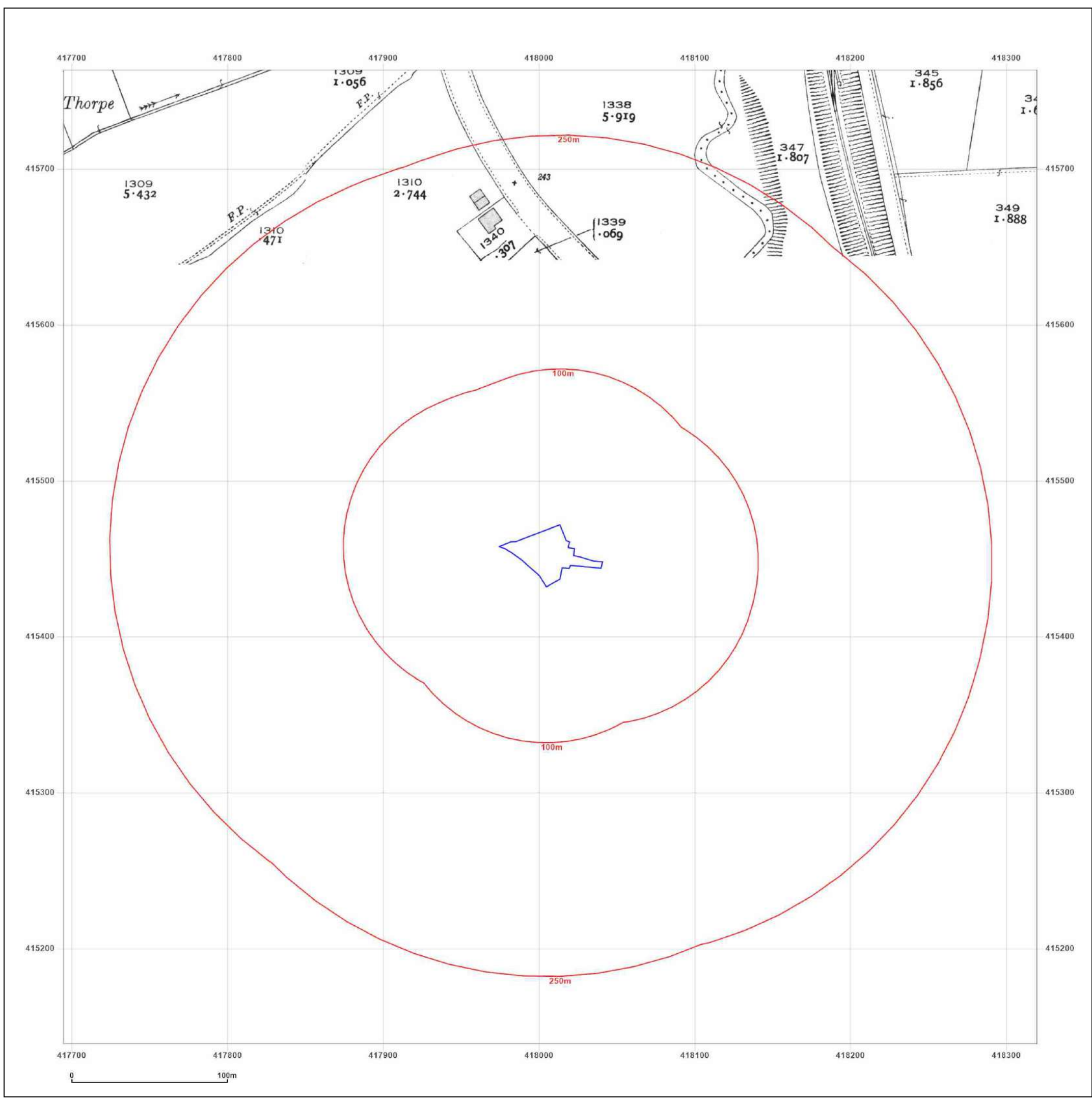


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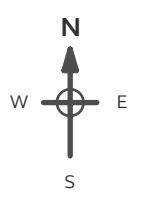


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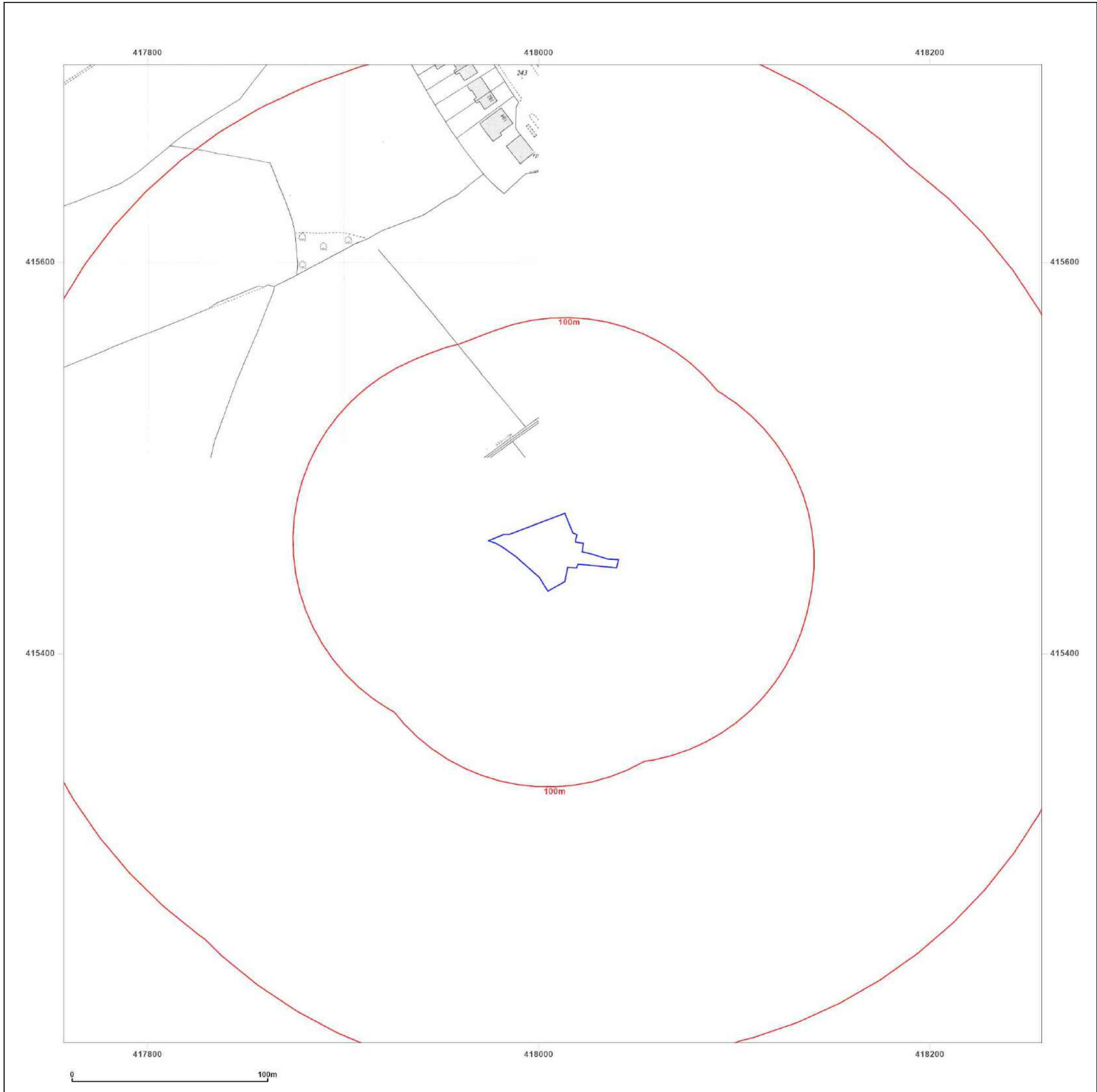
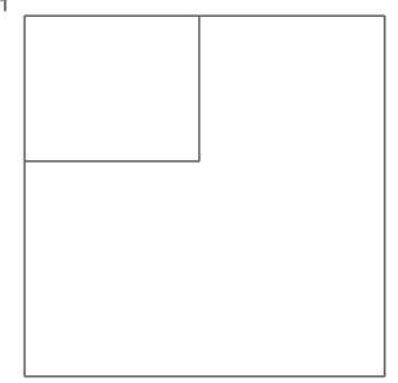
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Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

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



Surveyed 1957
 Revised 1957
 Edition N/A
 Copyright N/A
 Levelled 1931



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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

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Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid

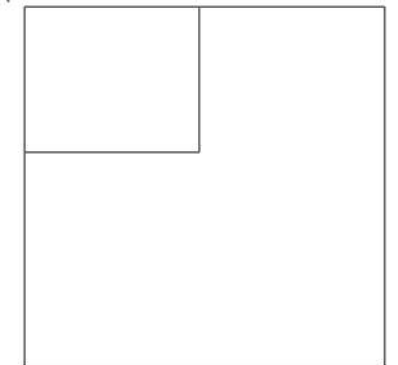
Map date: 1958

Scale: 1:1,250

Printed at: 1:2,000



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

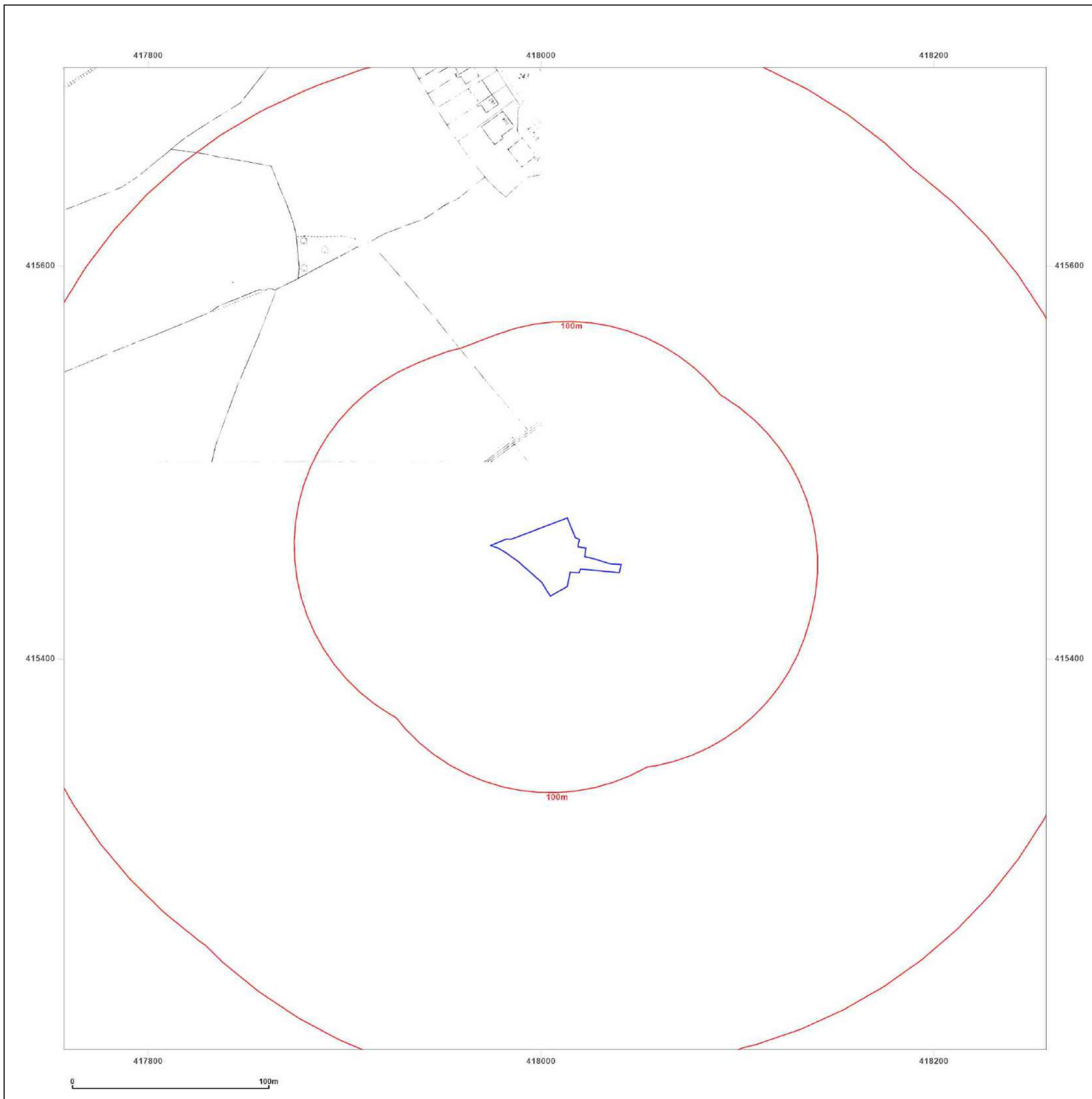


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Site Details:

2, BREWERY YARD, FENAY
BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1931

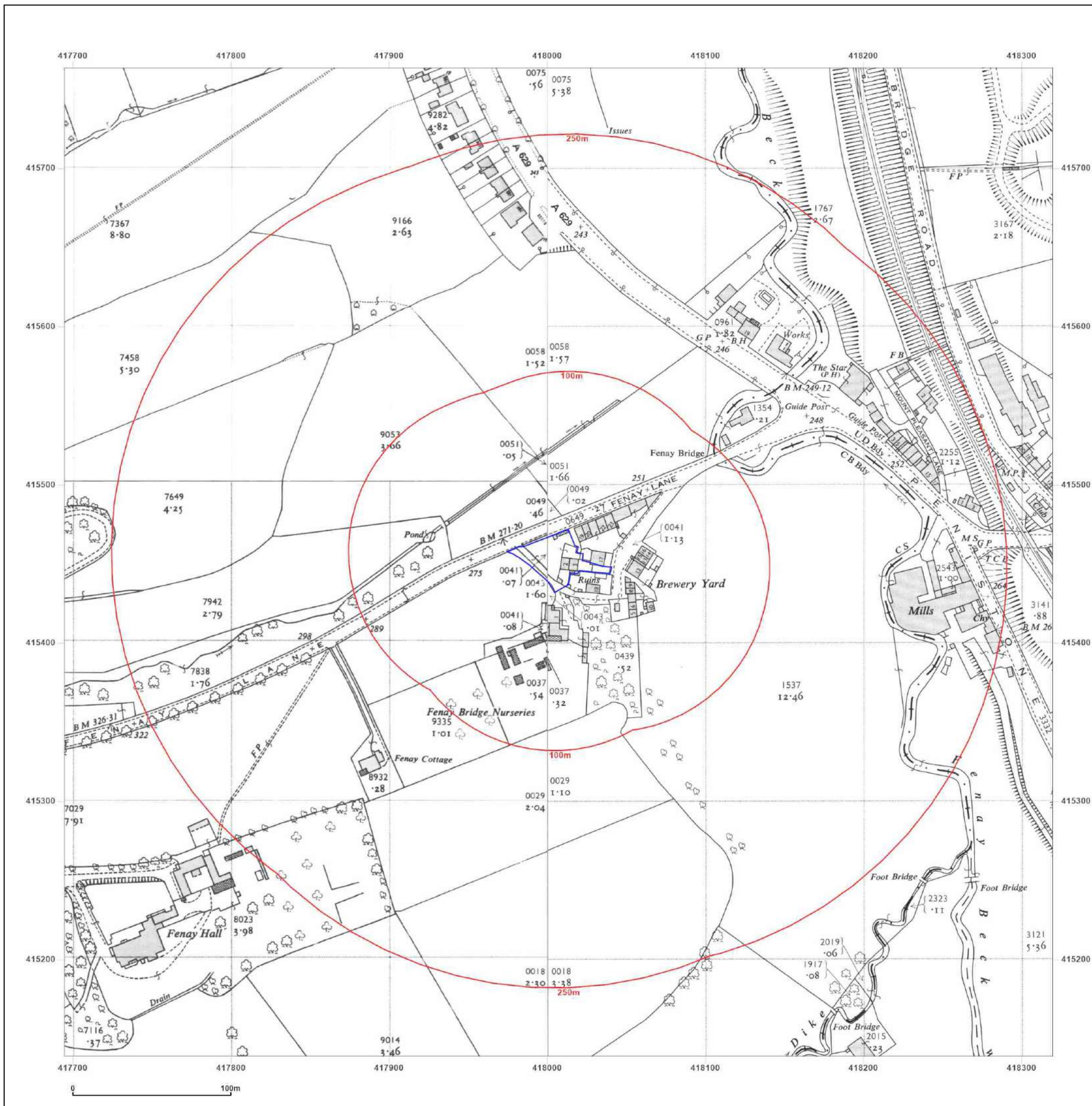


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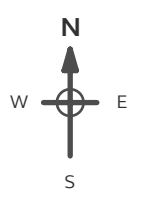
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Site Details:
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Client Ref: C/5085/25/E/7746 PO-3299
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Printed at: 1:2,500



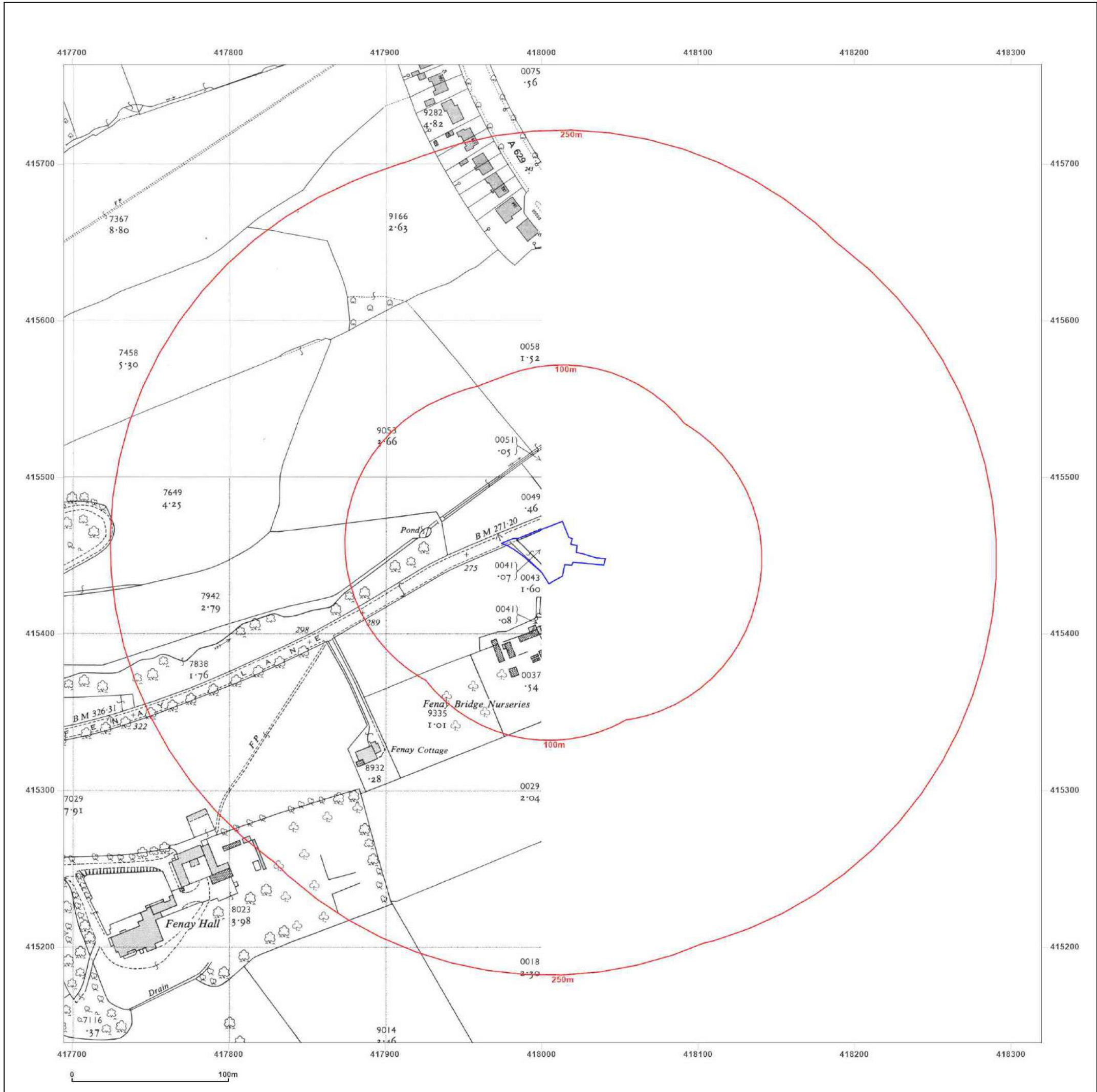
Surveyed 1959
 Revised 1959
 Edition 1961
 Copyright 1961
 Levelled 1931

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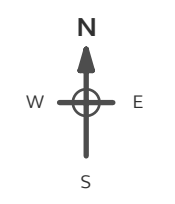
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Grid Ref: 418007, 415451

Map Name: National Grid

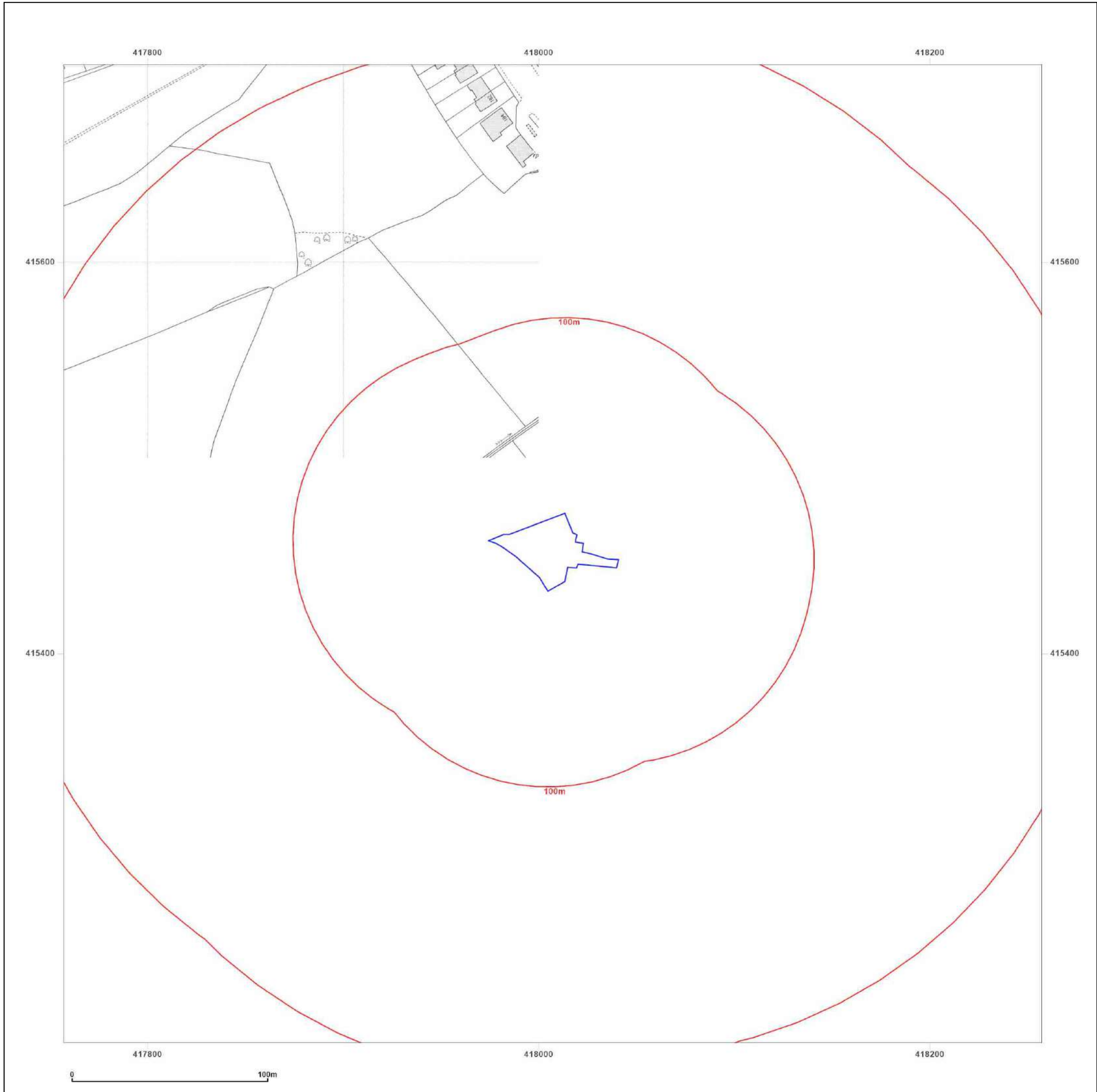
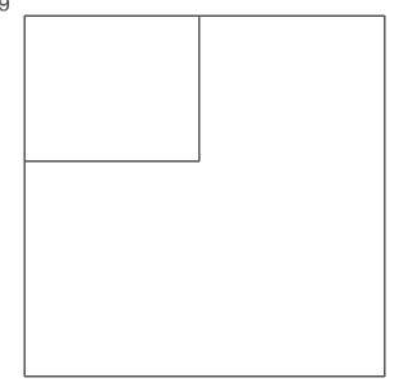
Map date: 1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
 Revised 1964
 Edition N/A
 Copyright N/A
 Levelled 1939



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Site Details:

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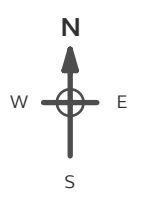
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Report Ref: GS-WDE-YO8-KSH-J35
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Map Name: National Grid

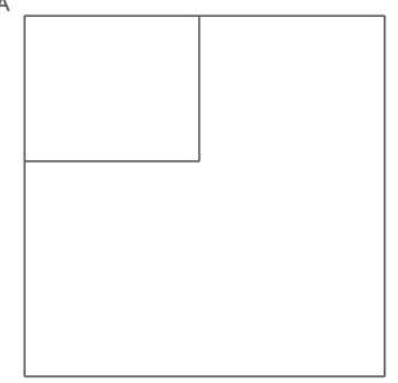
Map date: 1965

Scale: 1:1,250

Printed at: 1:2,000



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

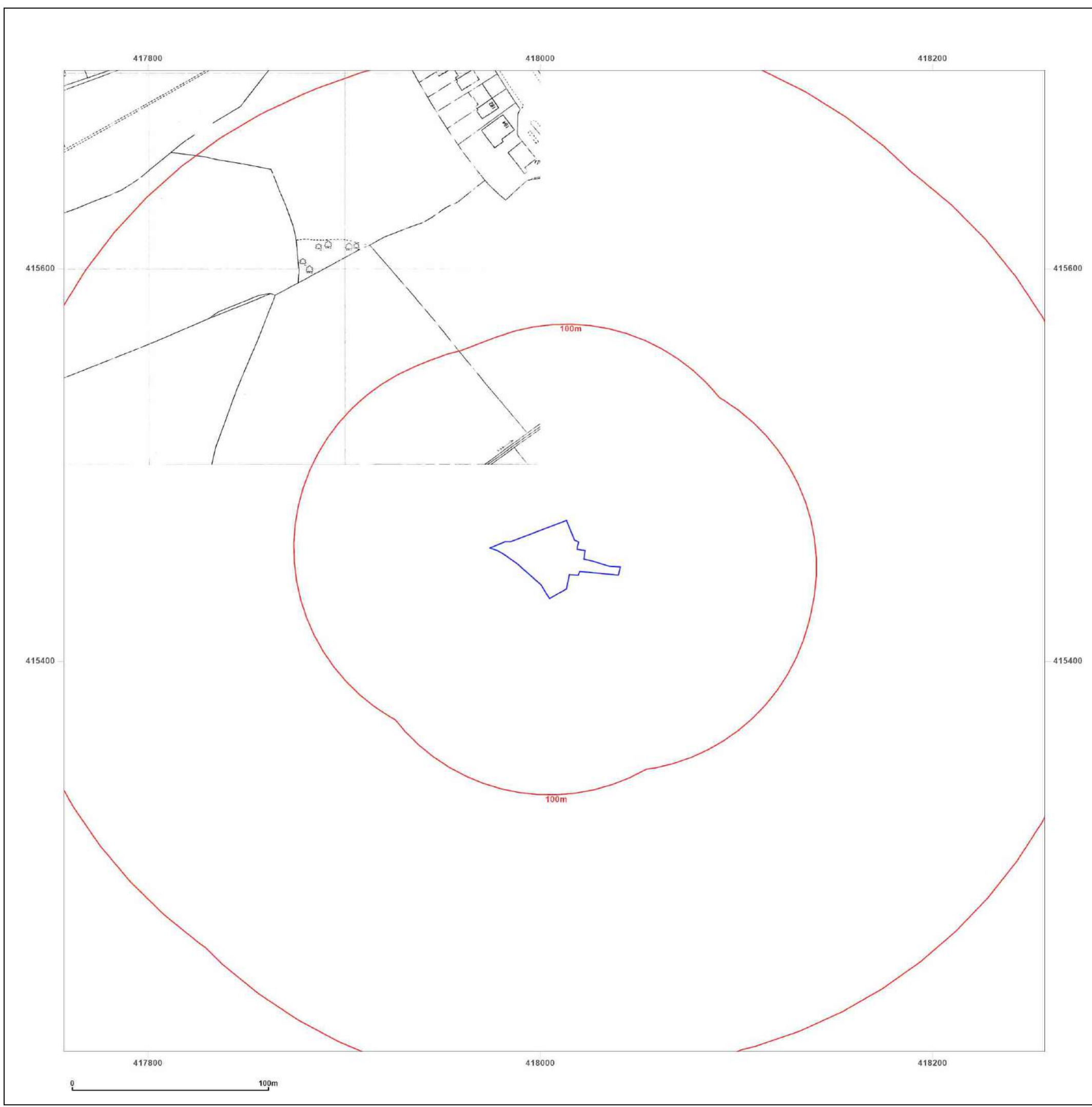


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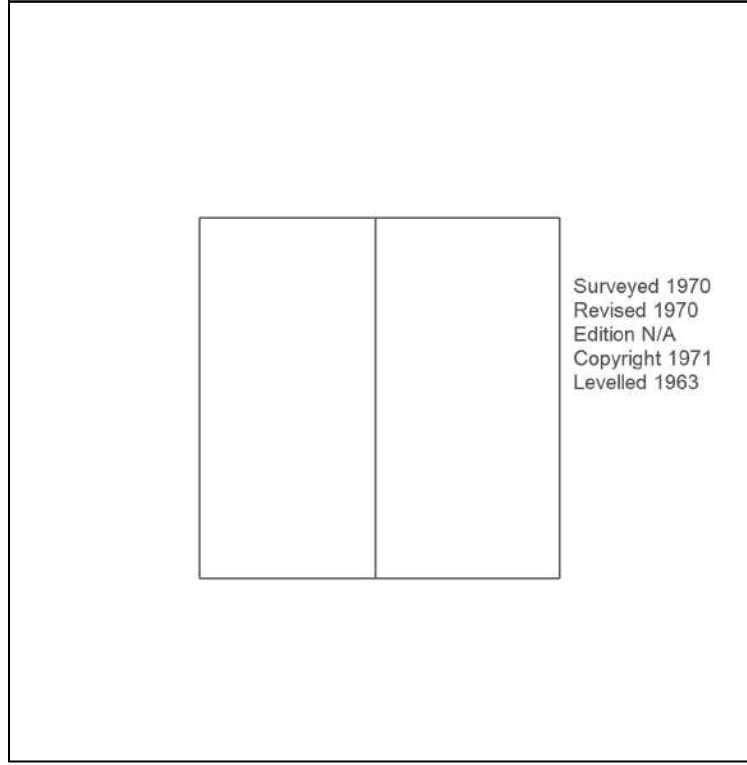
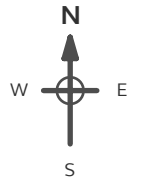
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Site Details:
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Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid
Map date: 1971
Scale: 1:2,500
Printed at: 1:2,500



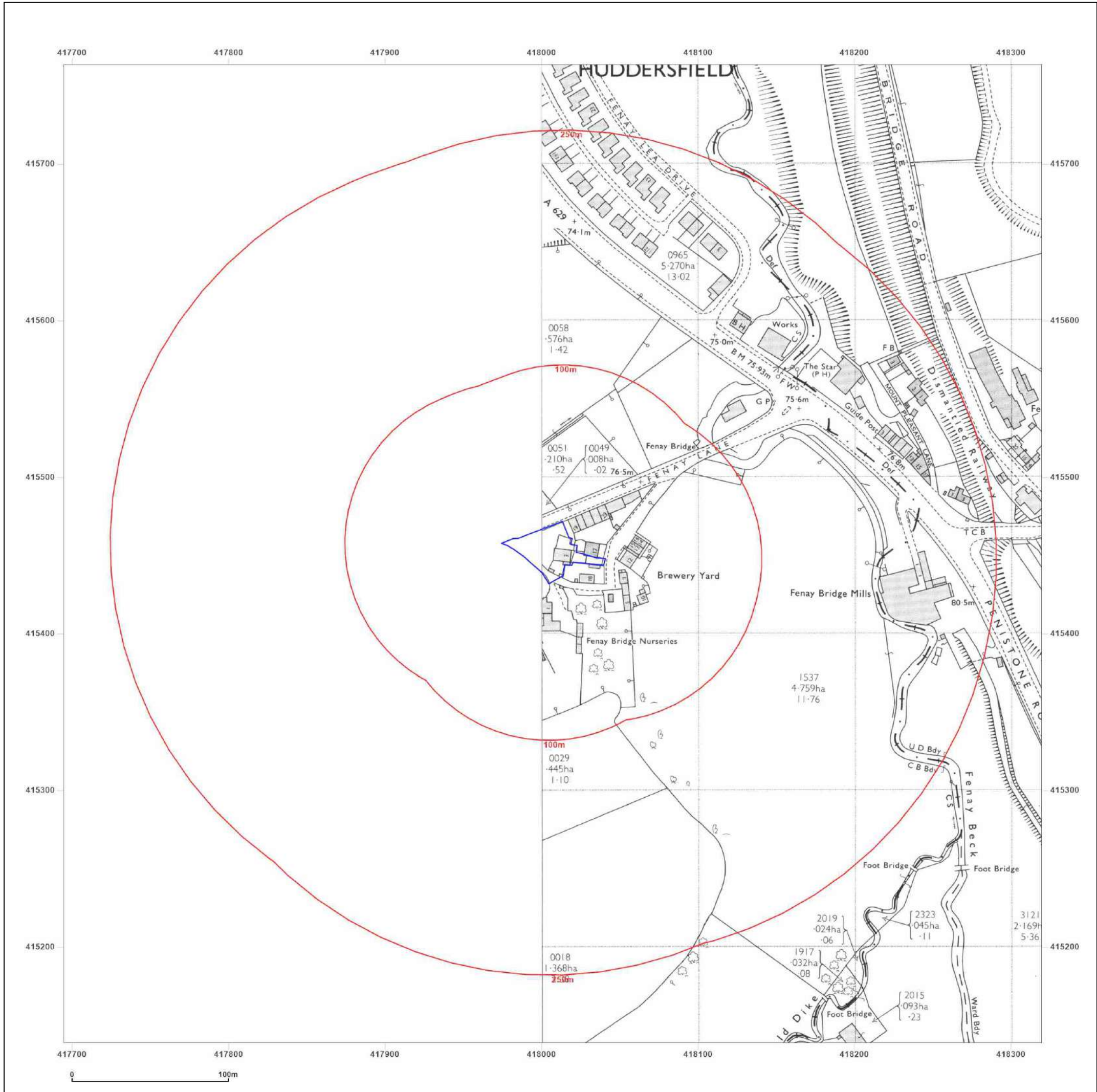
Surveyed 1970
 Revised 1970
 Edition N/A
 Copyright 1971
 Levelled 1963

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Grid Ref: 418007, 415451

Map Name: National Grid

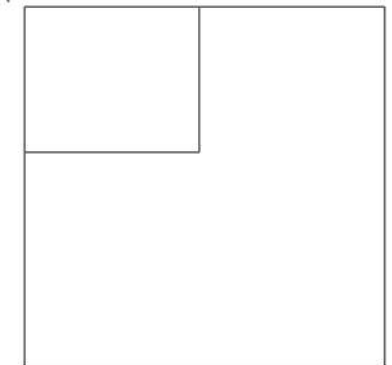
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Printed at: 1:2,000



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

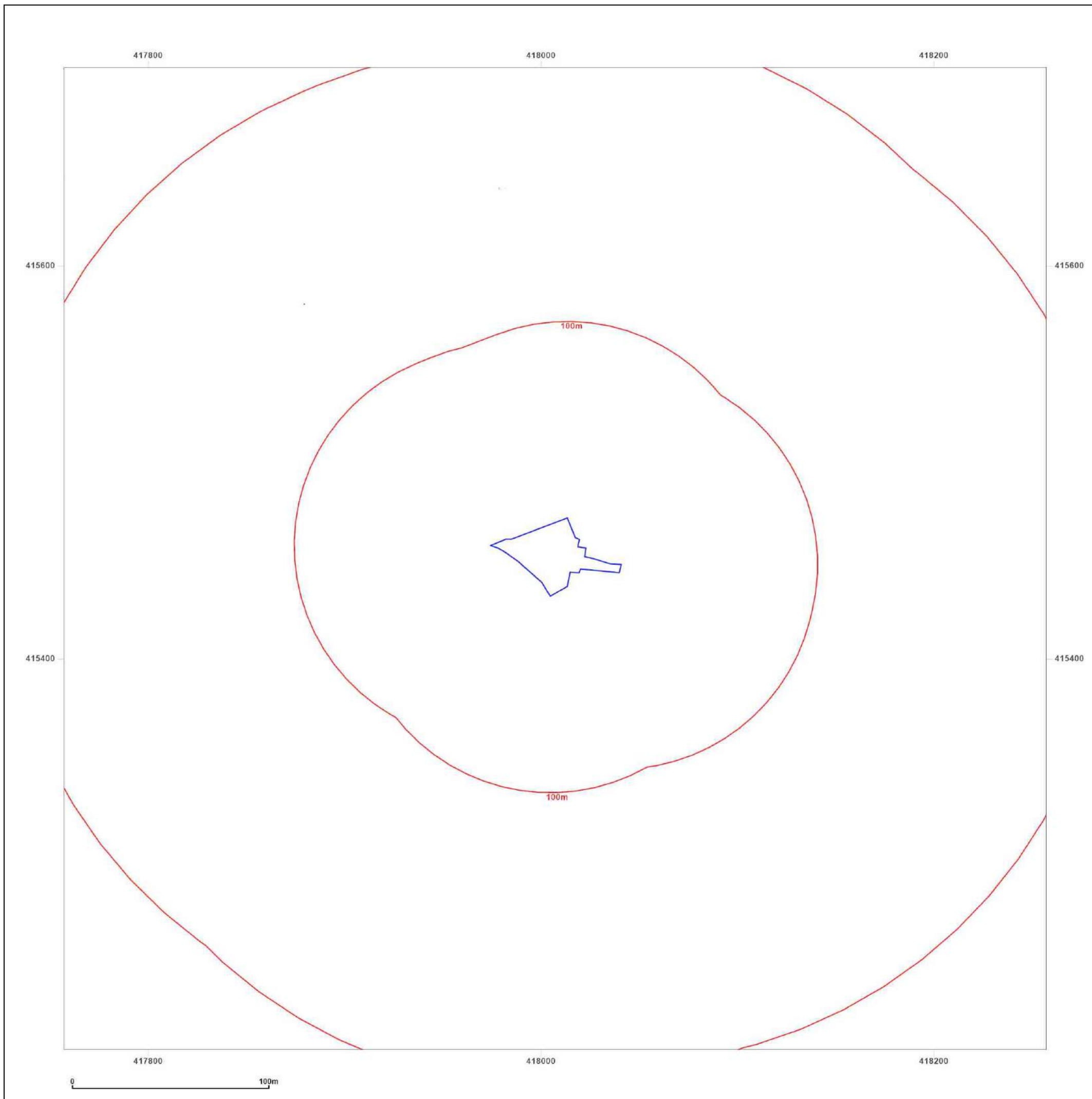


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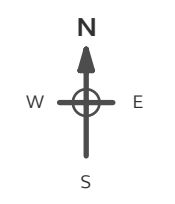
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Grid Ref: 418007, 415451

Map Name: National Grid

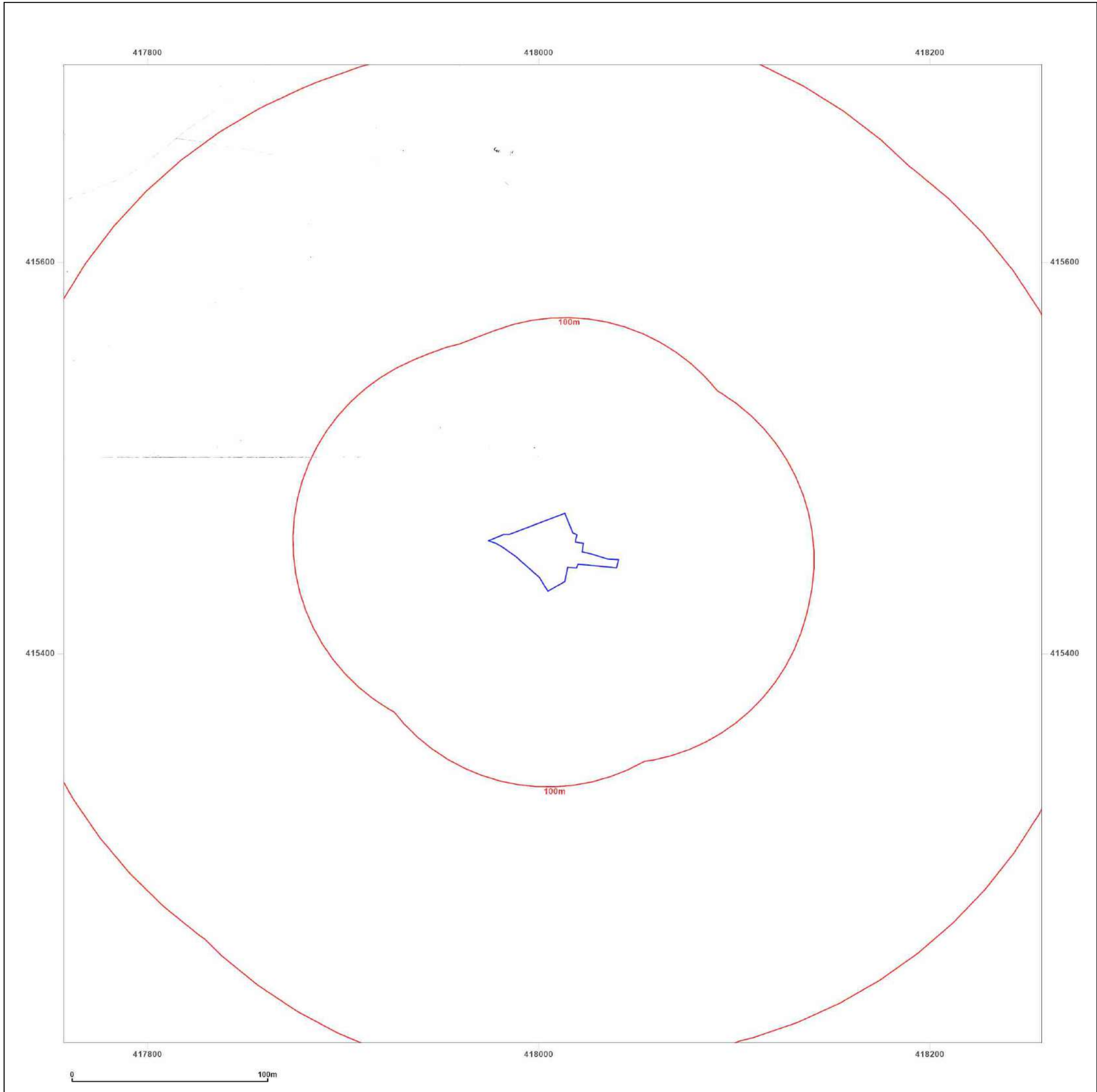
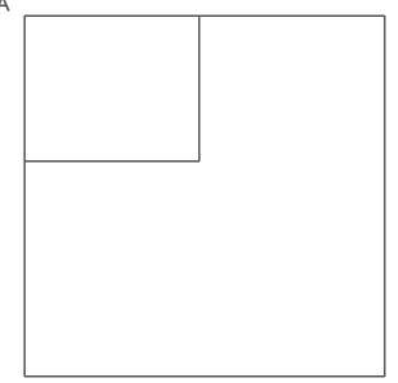
Map date: 1975

Scale: 1:1,250

Printed at: 1:2,000



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



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Site Details:

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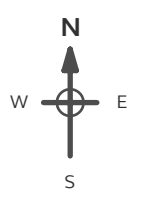
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Map Name: National Grid

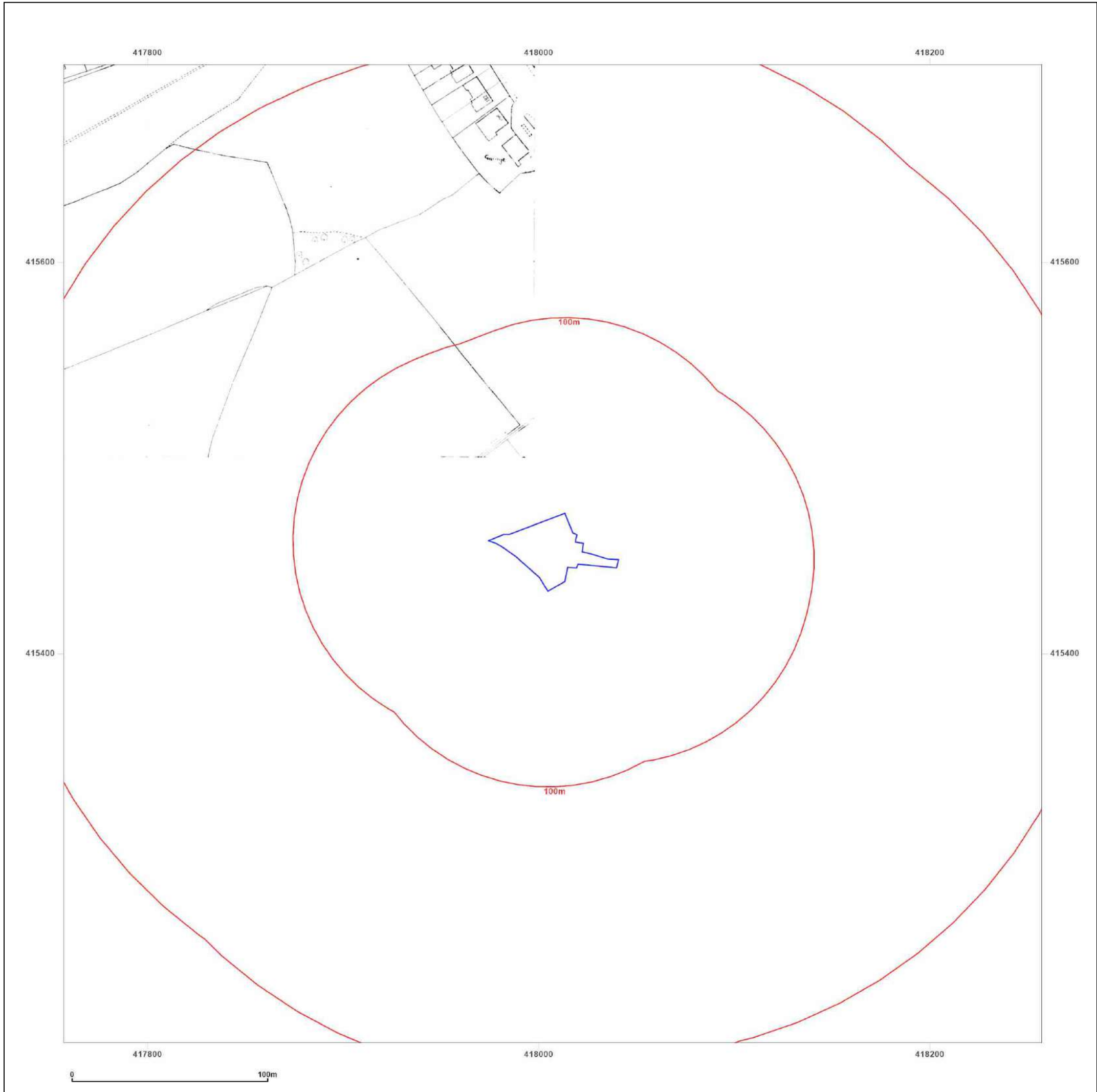
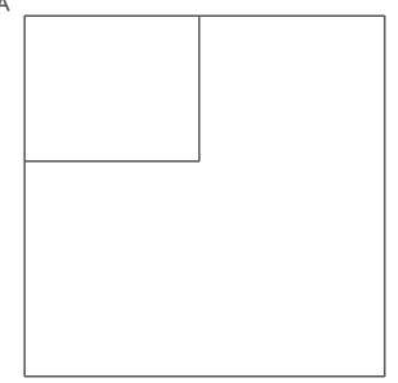
Map date: 1979

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1979
 Levelled N/A



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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

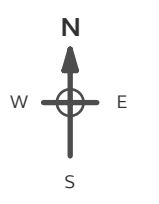
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Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid

Map date: 1985-1990

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1989
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1959

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Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1958

Surveyed 1964
Revised 1964
Edition N/A
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Levelled 1959

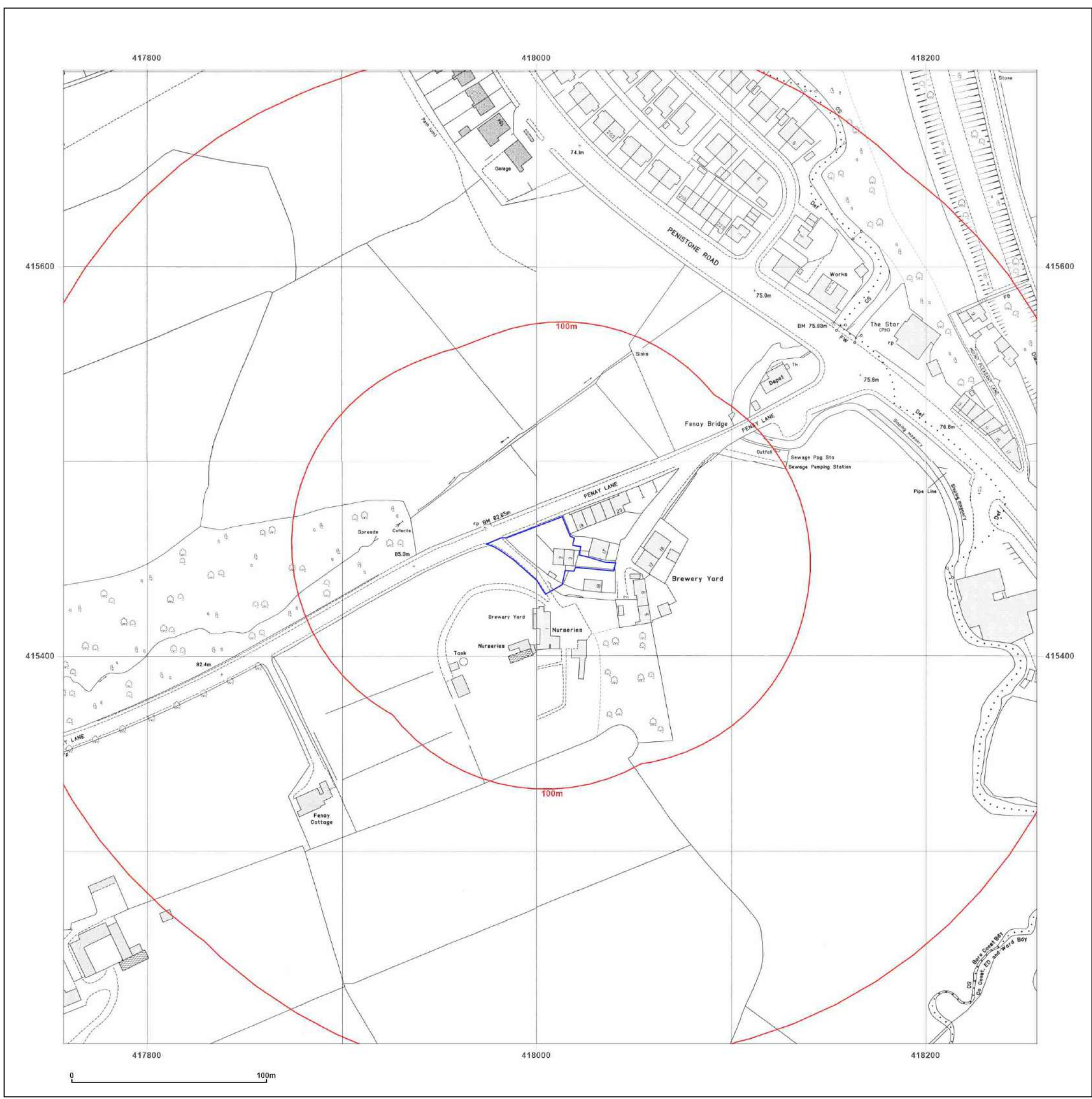


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Site Details:

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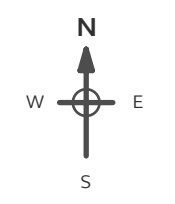
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Map Name: National Grid

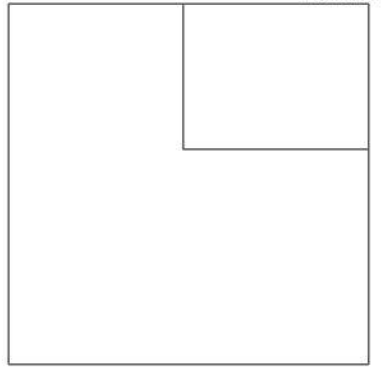
Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

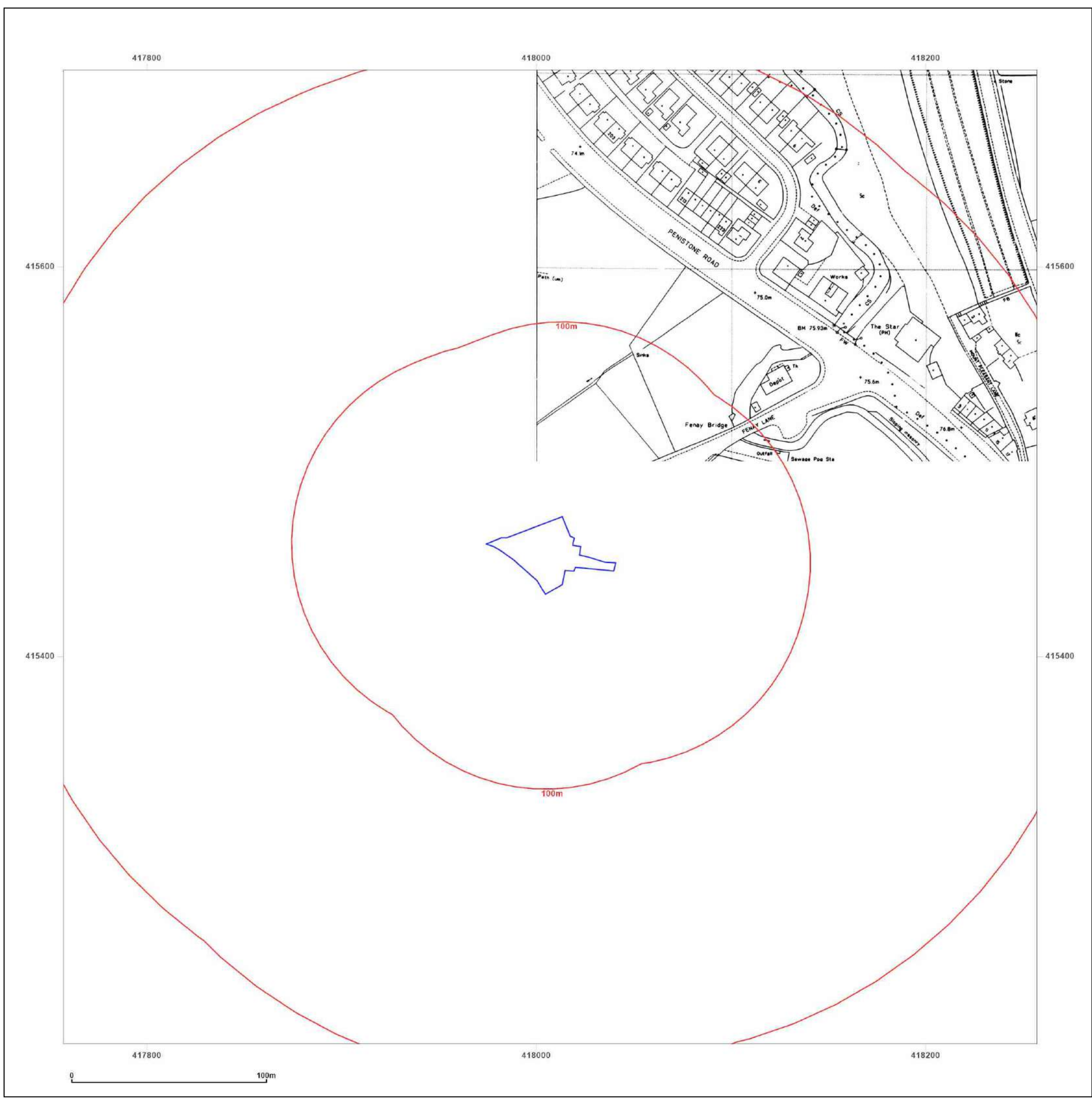



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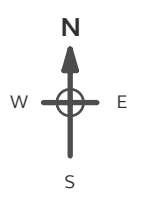


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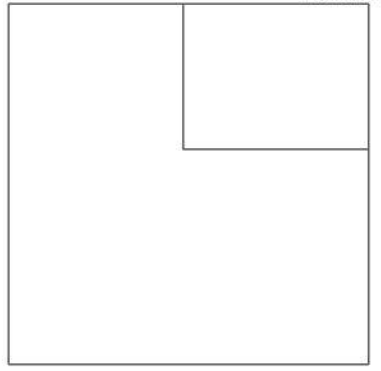
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Client Ref: C/5085/25/E/7746 PO-3299
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Grid Ref: 418007, 415451

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Printed at: 1:2,000



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

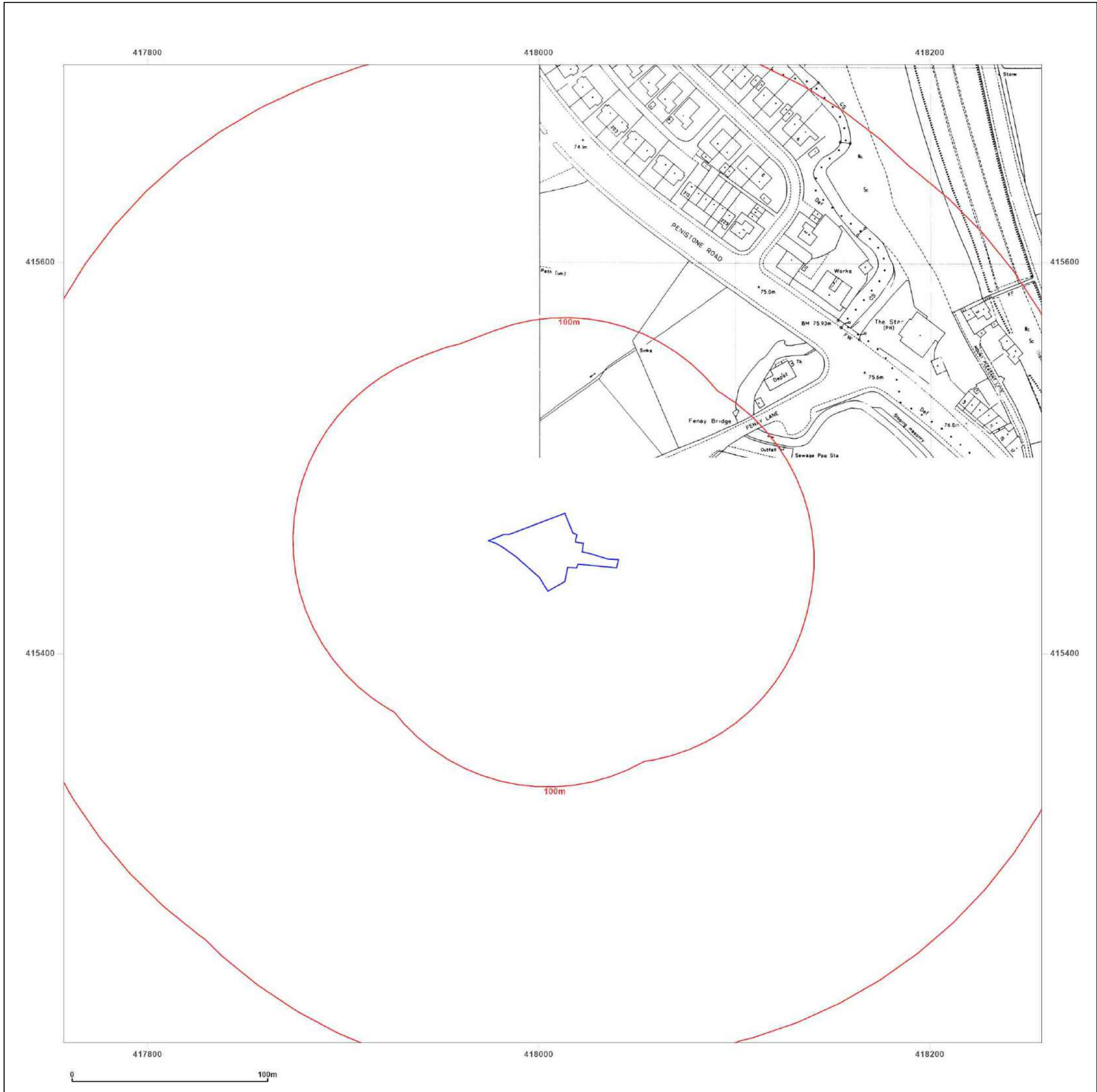


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

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Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
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Copyright 1993
Levelled N/A



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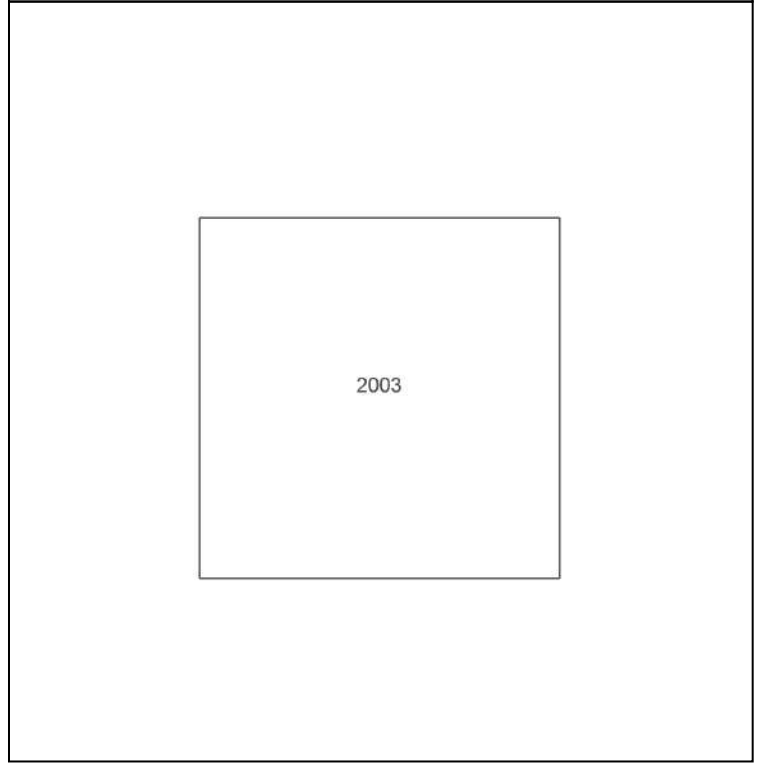
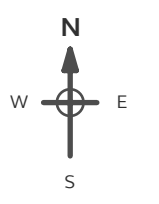
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Site Details:
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Grid Ref: 418007, 415451

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

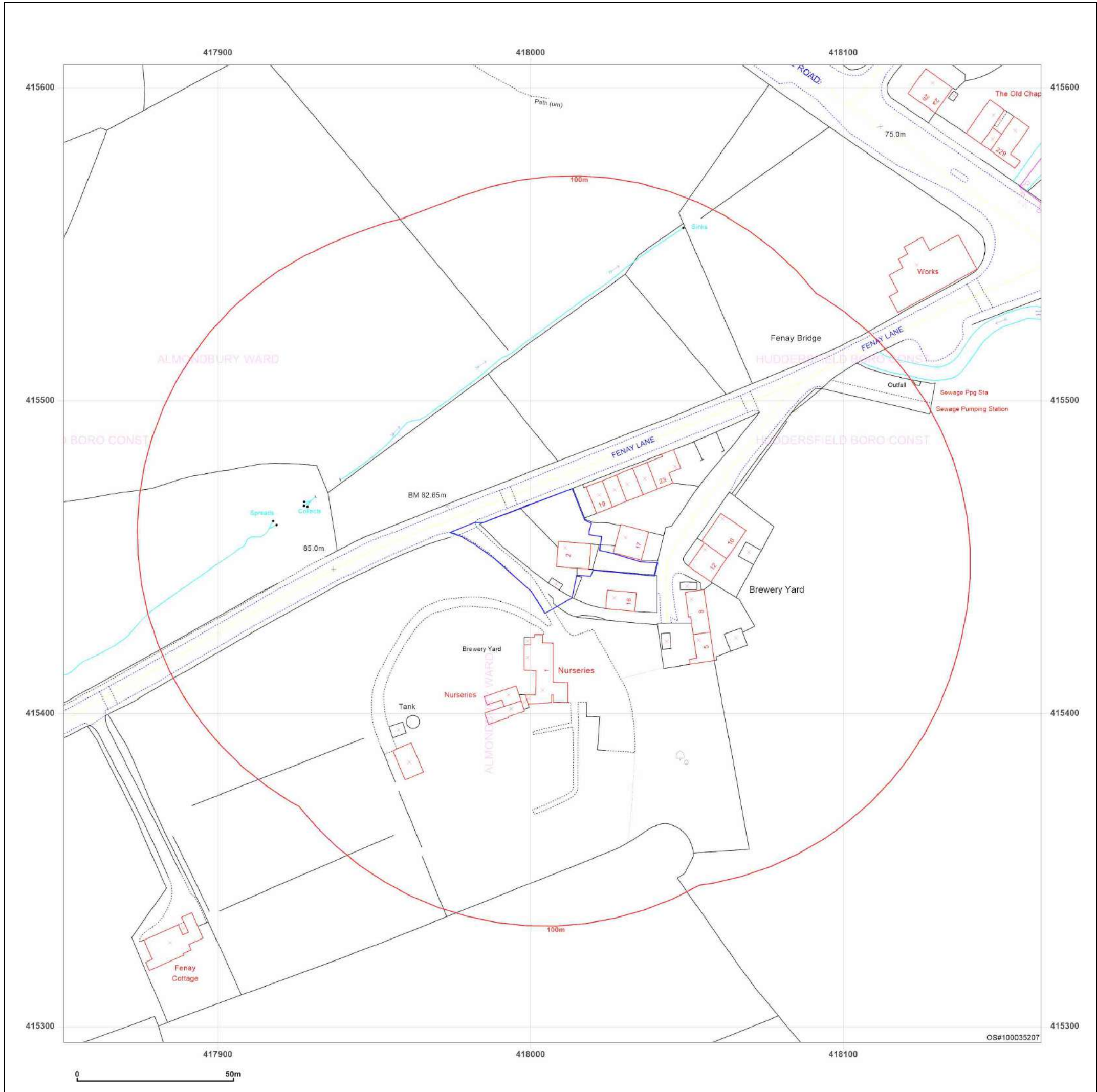


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1854-1855

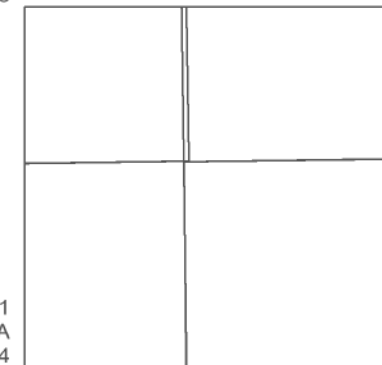
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Surveyed 1851
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Edition 1854
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Edition 1854
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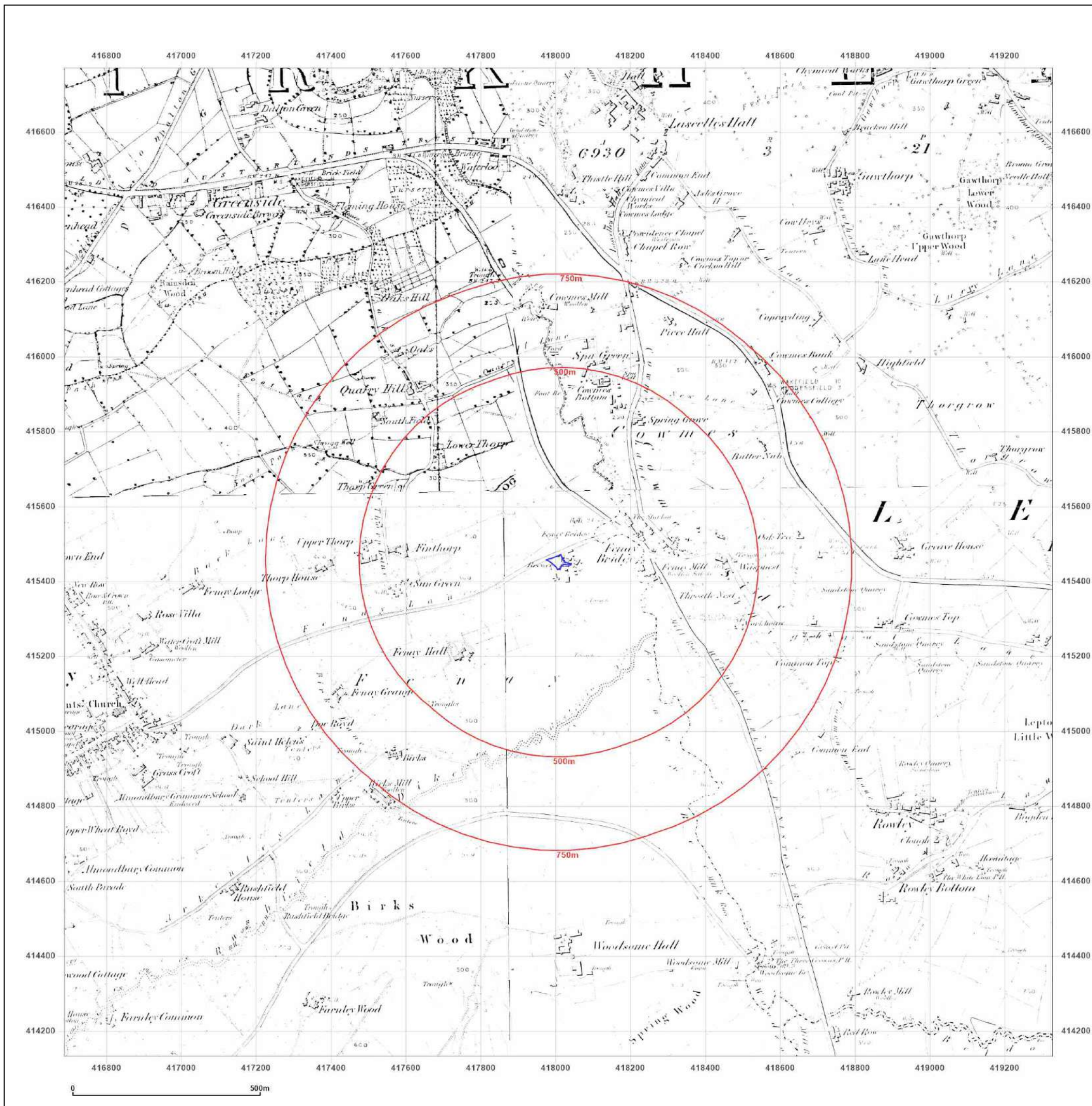


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Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1888-1892

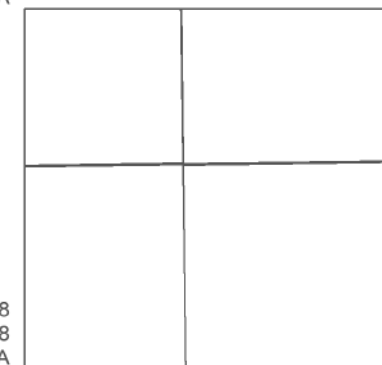
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Edition N/A
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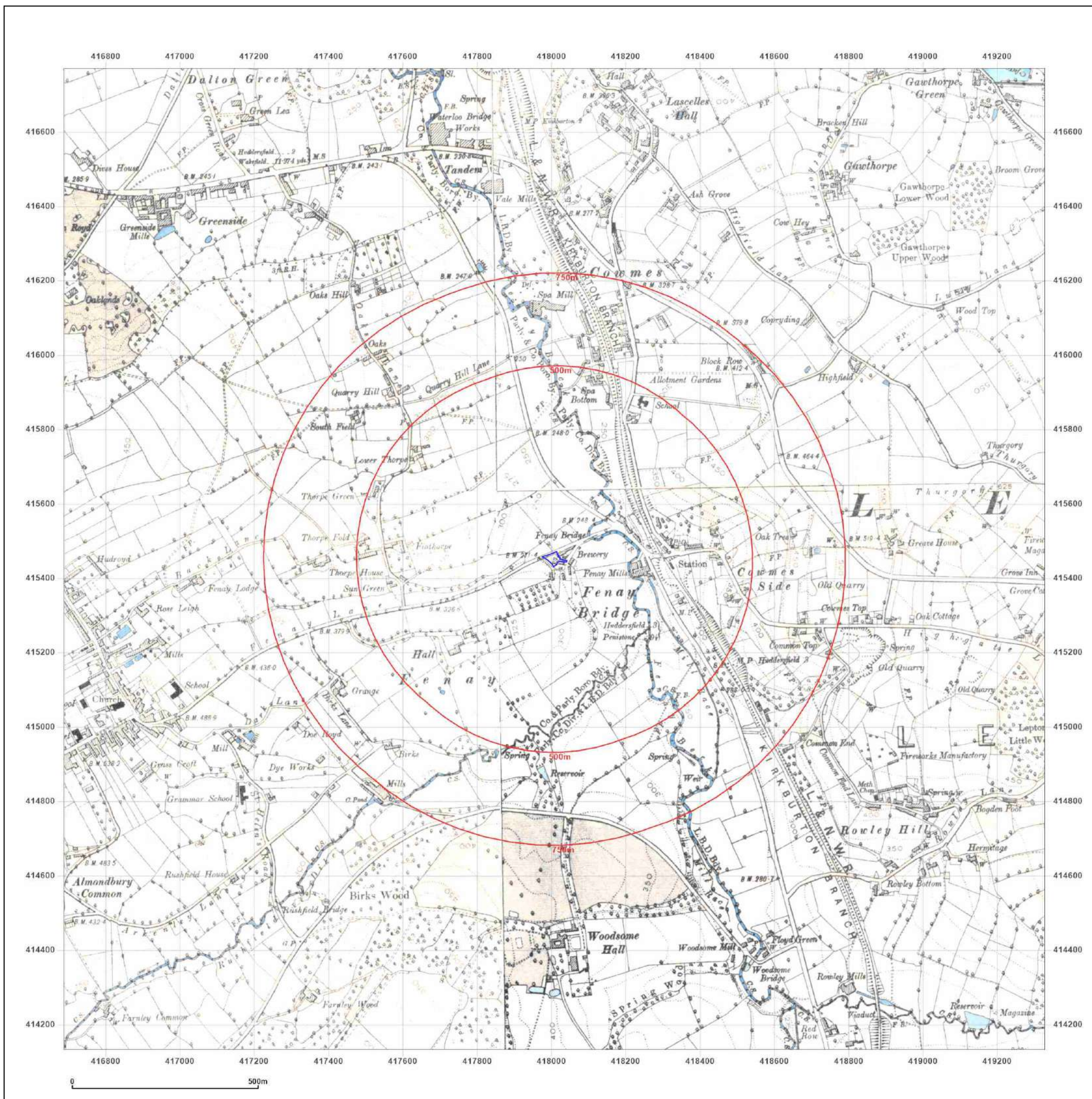


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Report Ref: GS-WDE-YO8-KSH-J35
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Map Name: County Series

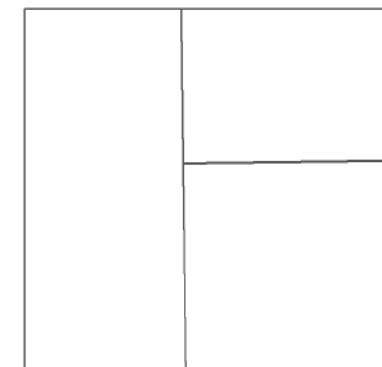
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Edition N/A
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Levelled N/A

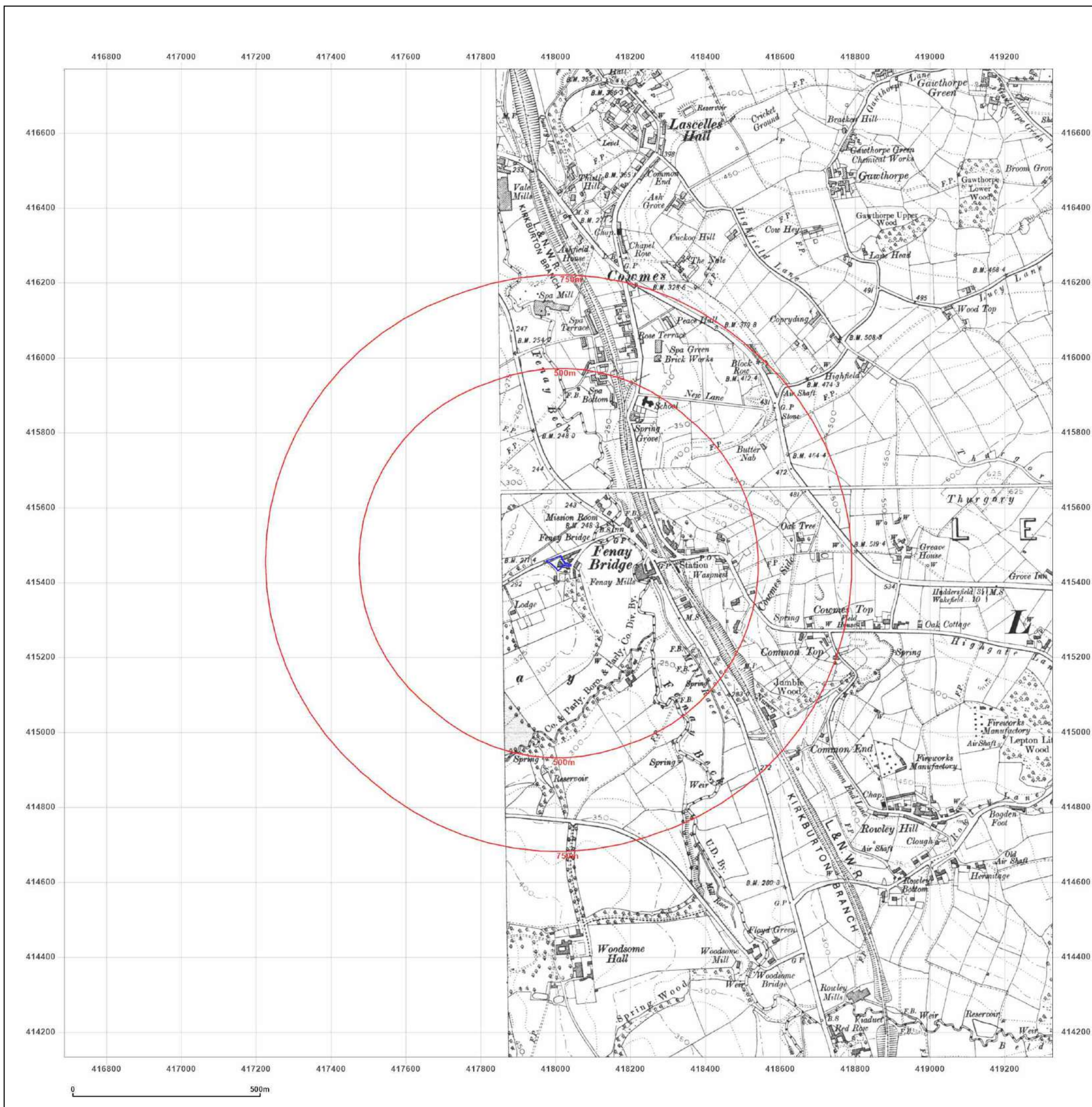


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

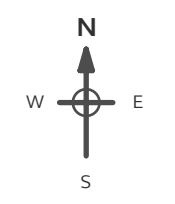
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Map Name: County Series

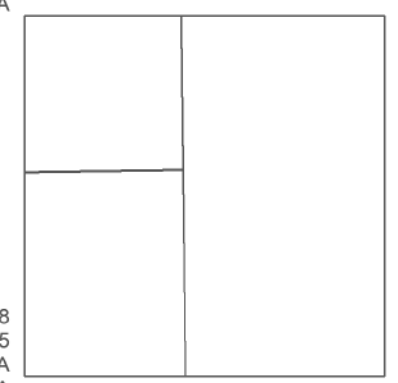
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Edition N/A
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Revised 1905
Edition N/A
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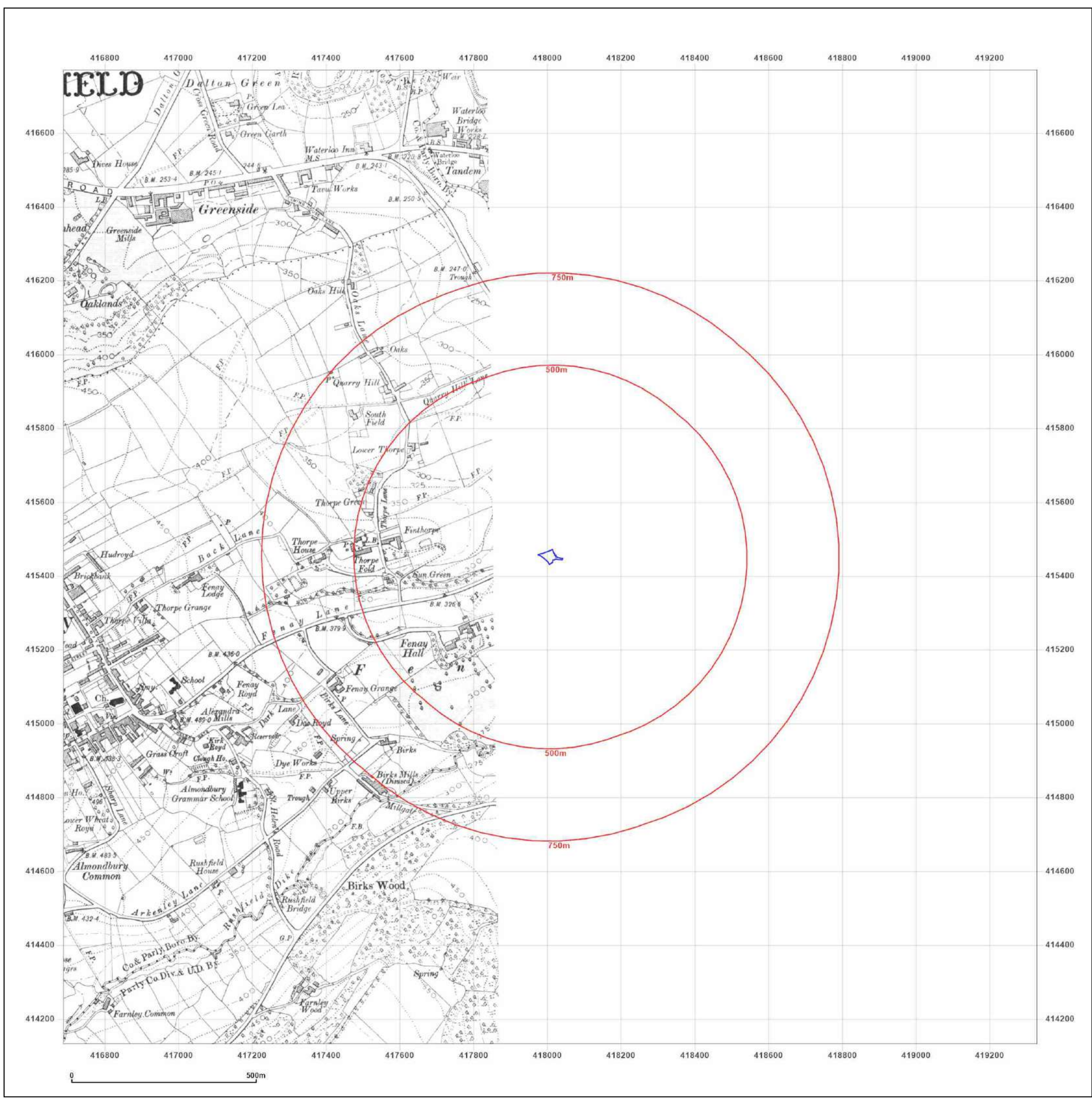


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Site Details:

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KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1930-1931

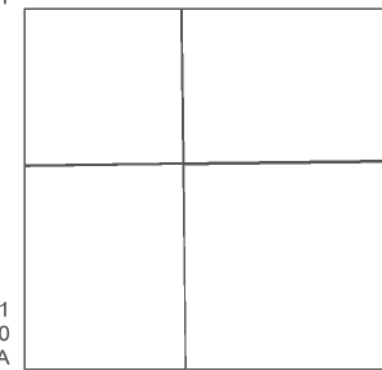
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Levelled N/A

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Revised 1930
Edition N/A
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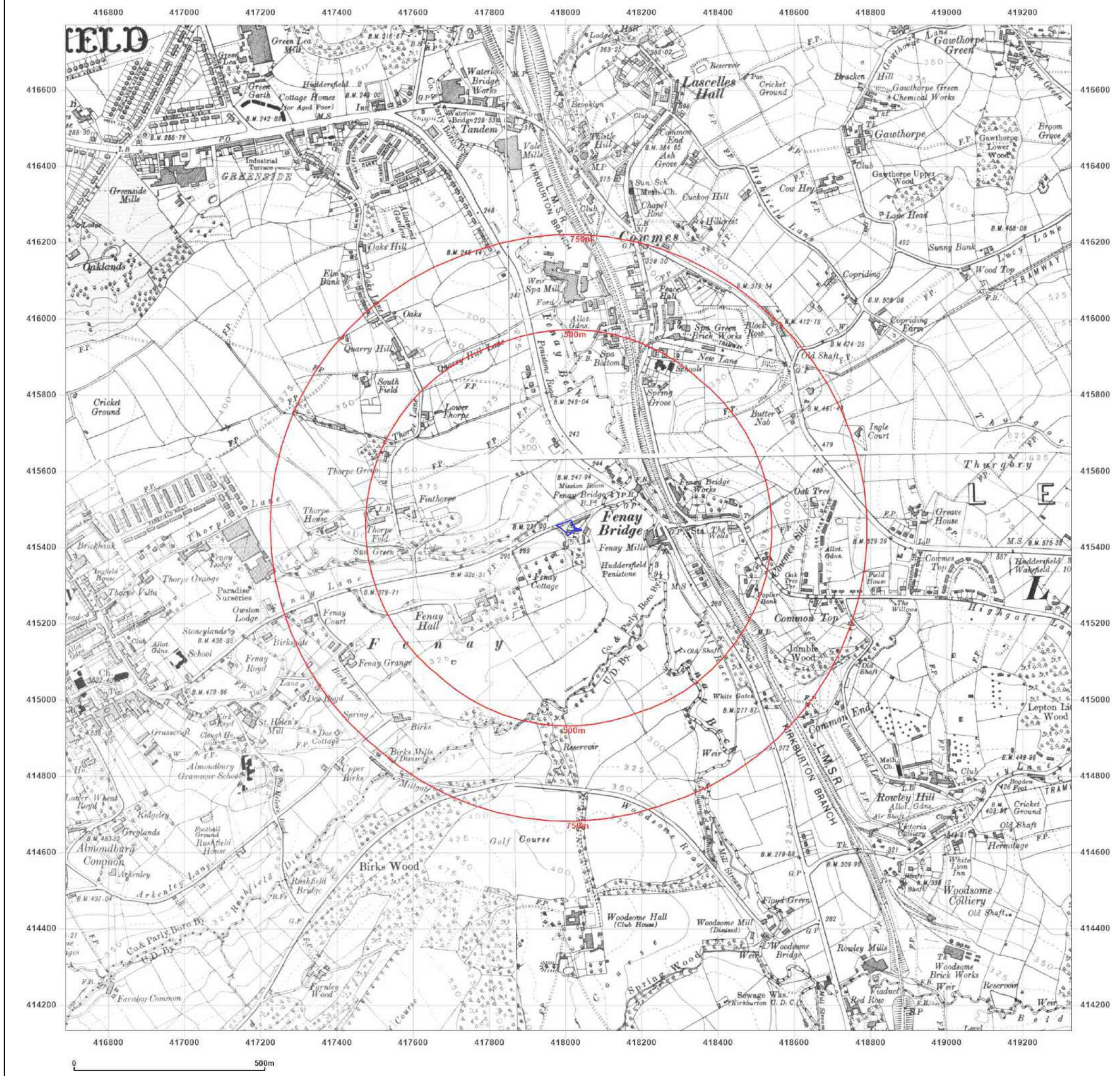


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Site Details:

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Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1938

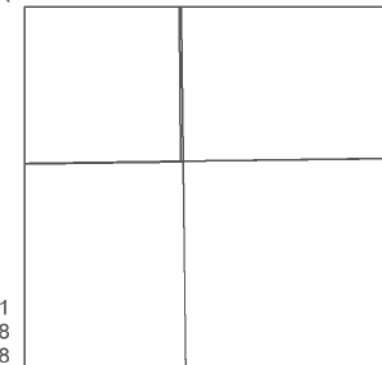
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 Edition 1938
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 Revised 1938
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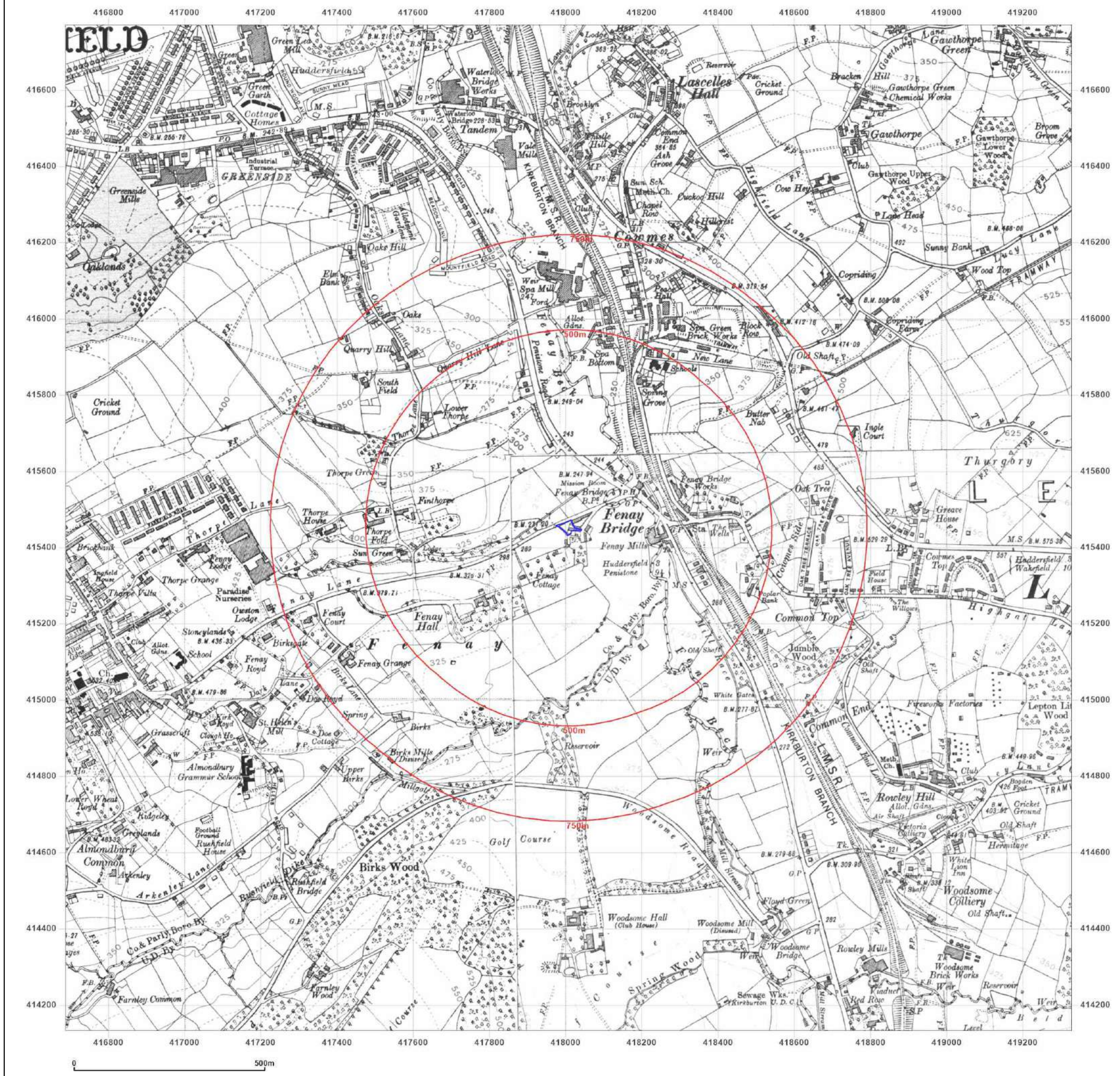


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Site Details:

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KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

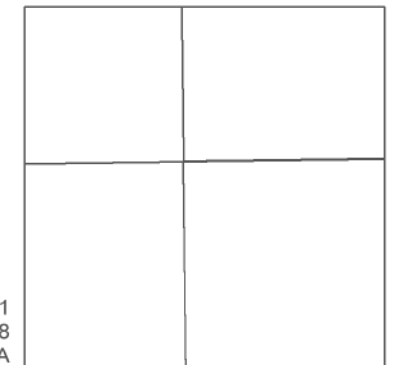
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Scale: 1:10,560

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Revised 1948
Edition 1948
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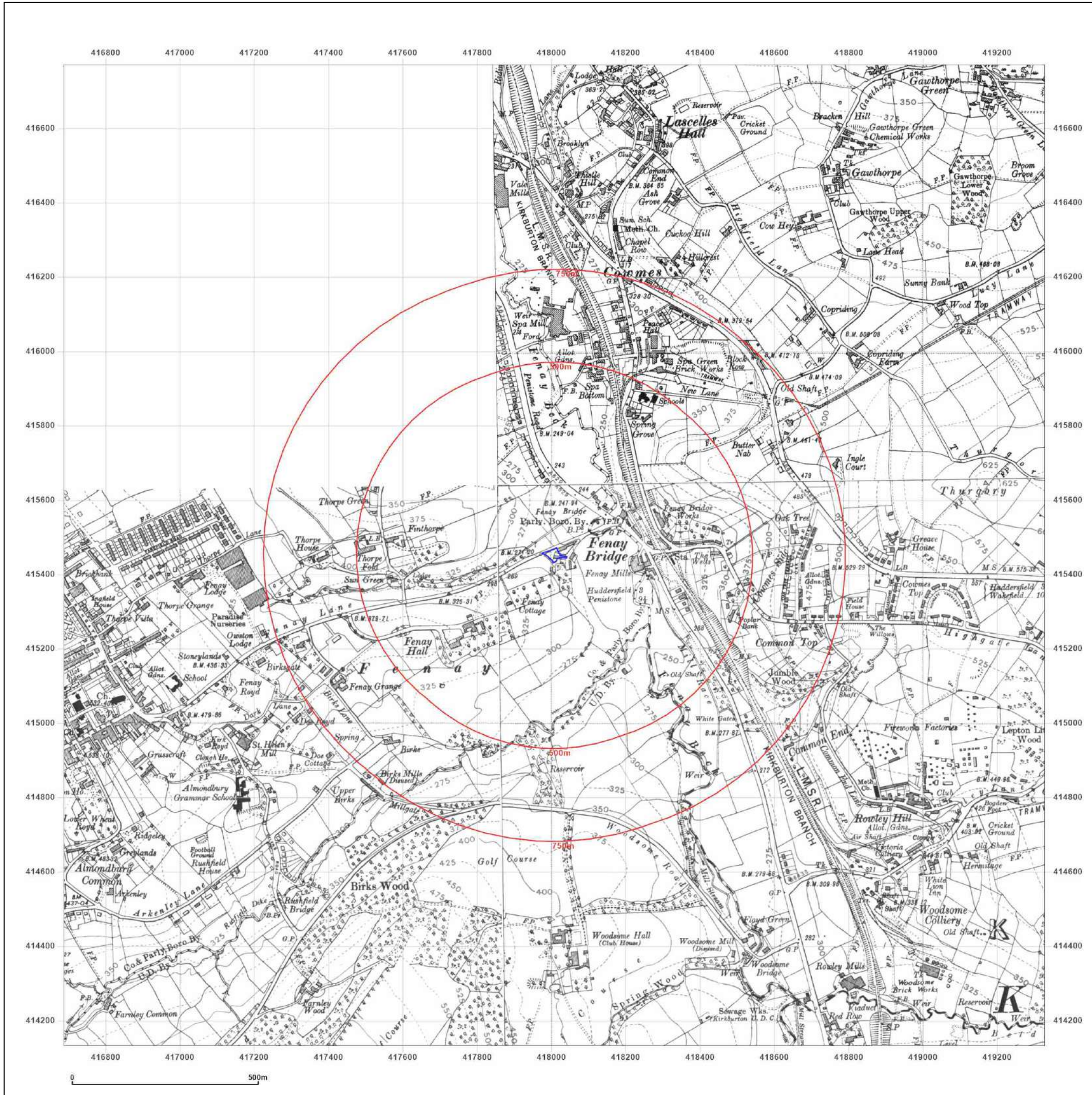


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Site Details:

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KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: County Series

Map date: 1948

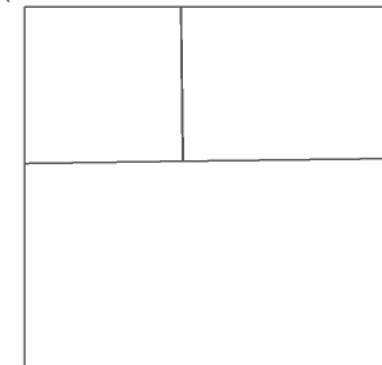
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Revised 1948
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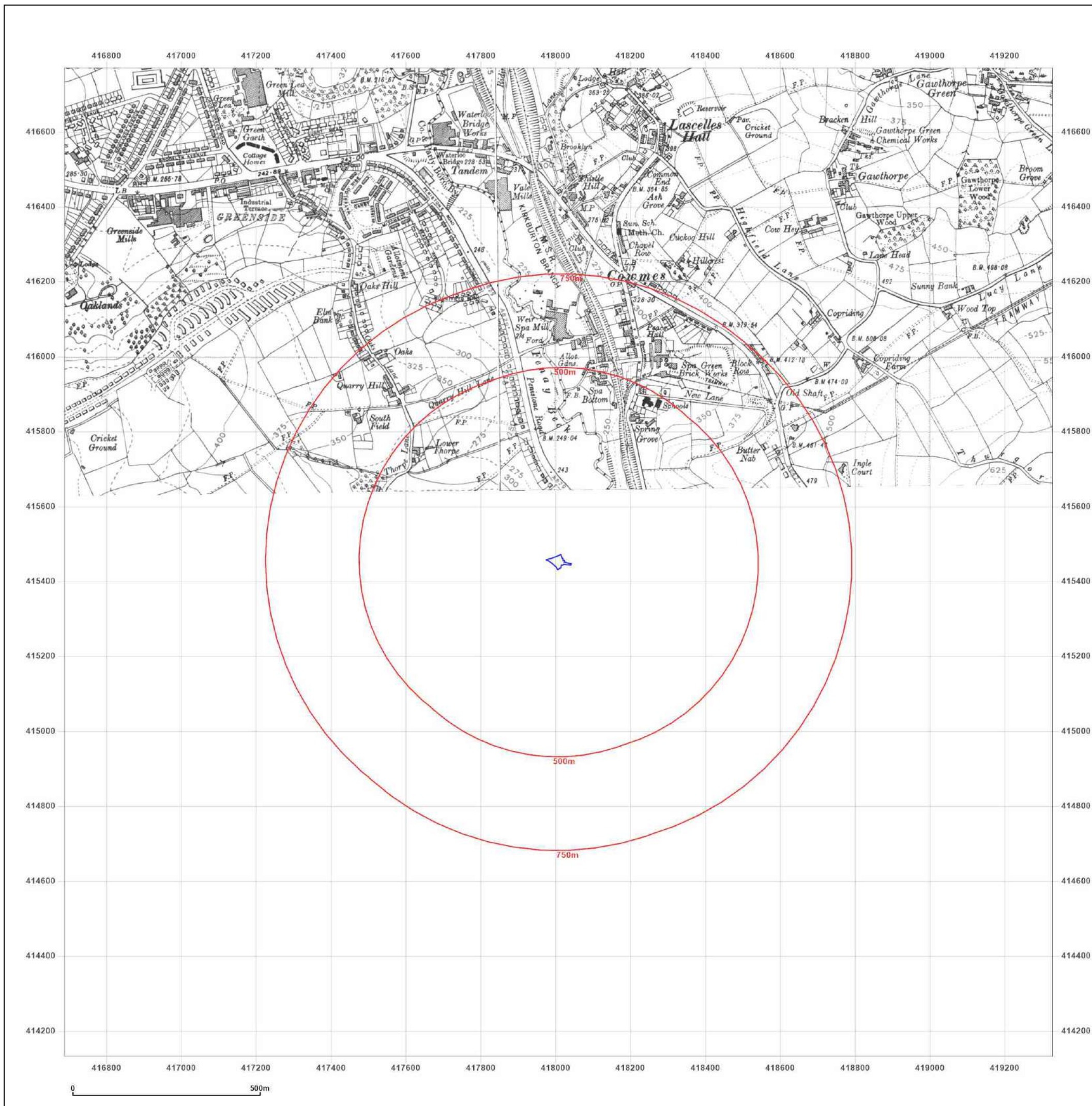


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
Copyright 1956
Levelled N/A

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

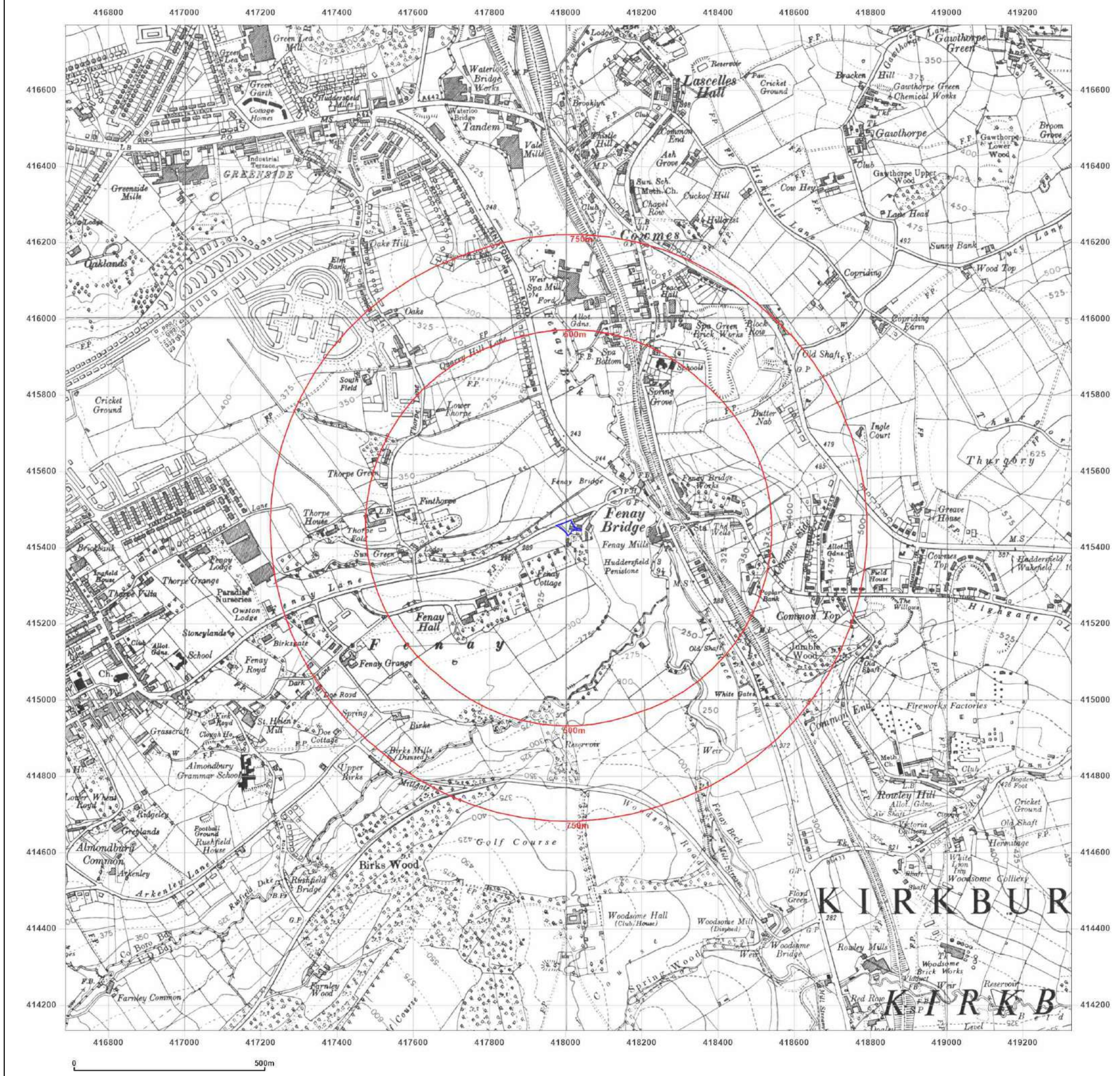


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: Provisional

Map date: 1965-1968

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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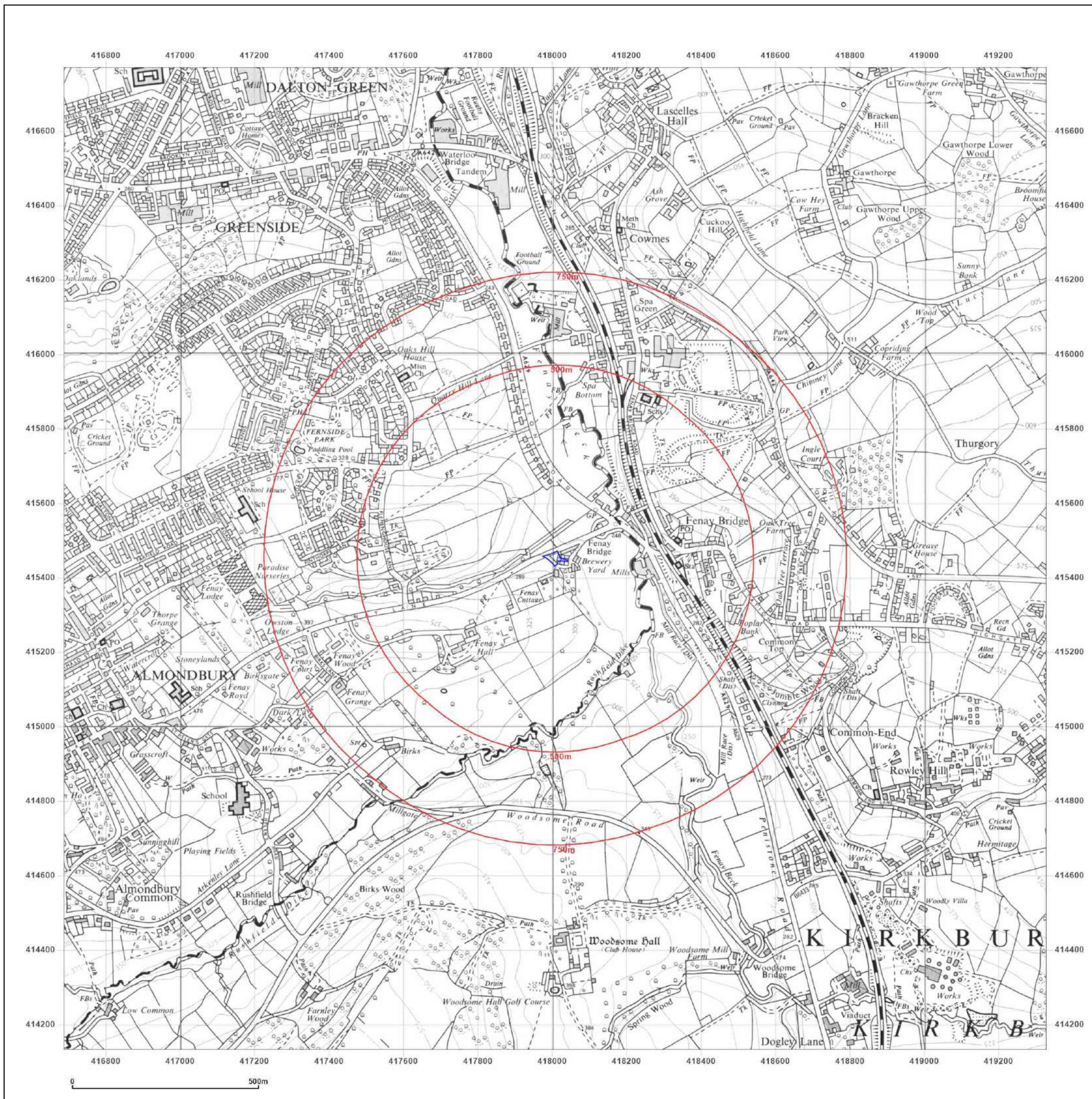


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid

Map date: 1975-1977

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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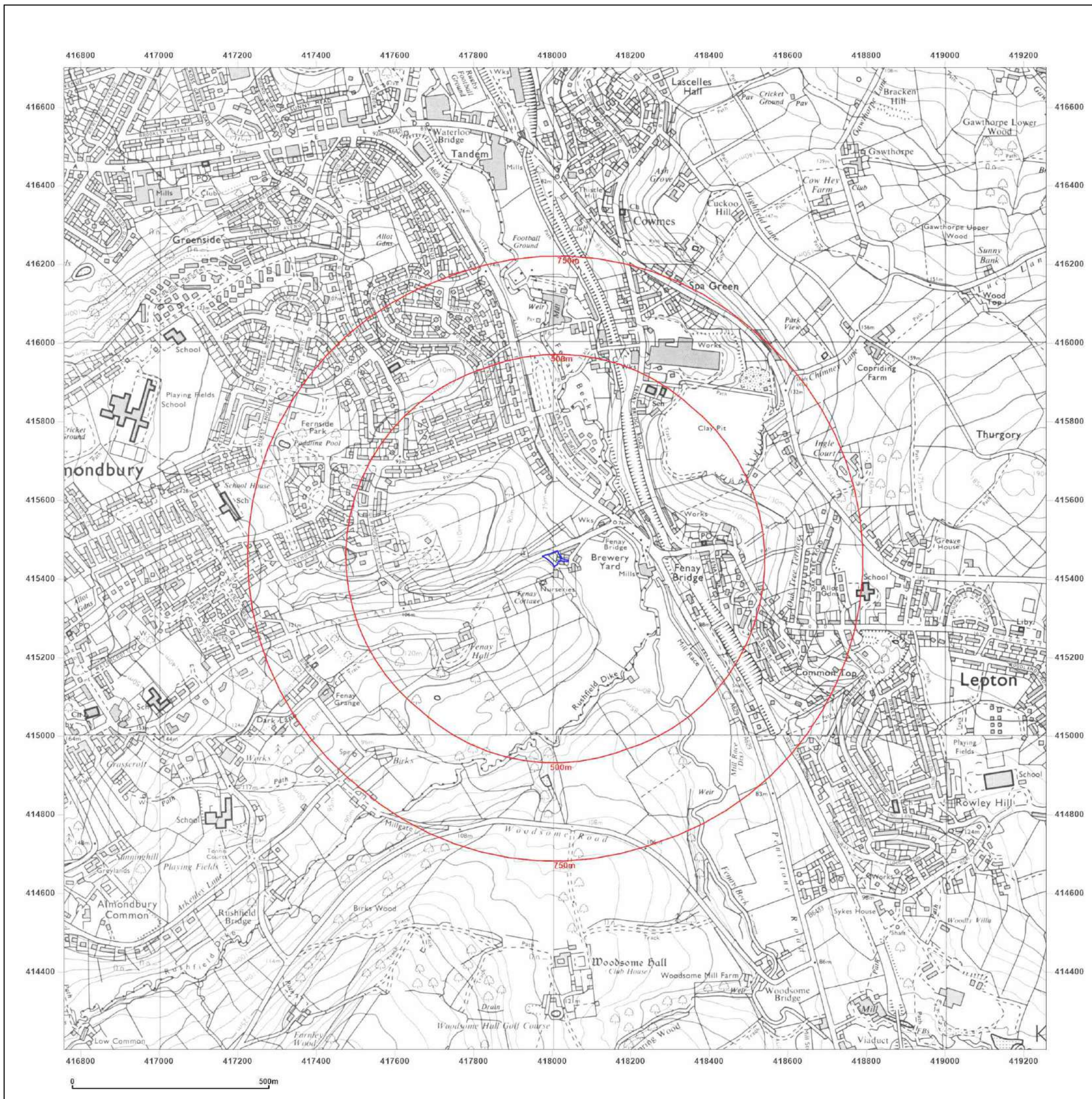


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Site Details:

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BRIDGE, HUDDERSFIELD,
KIRKLEES, HD8 0AR

Client Ref: C/5085/25/E/7746 PO-3299
Report Ref: GS-WDE-YO8-KSH-J35
Grid Ref: 418007, 415451

Map Name: National Grid

Map date: 1988-1990

Scale: 1:10,000

Printed at: 1:10,000



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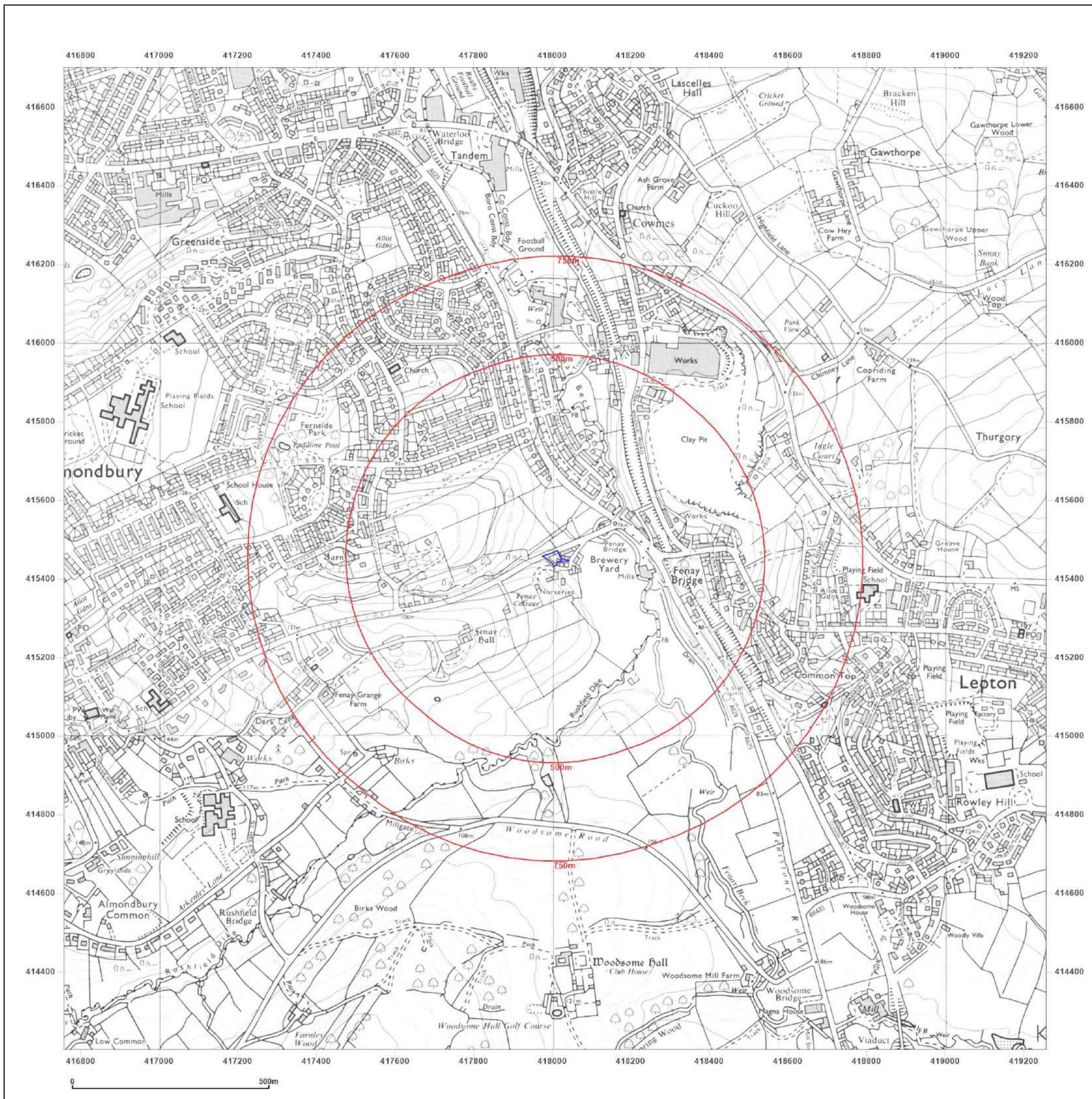


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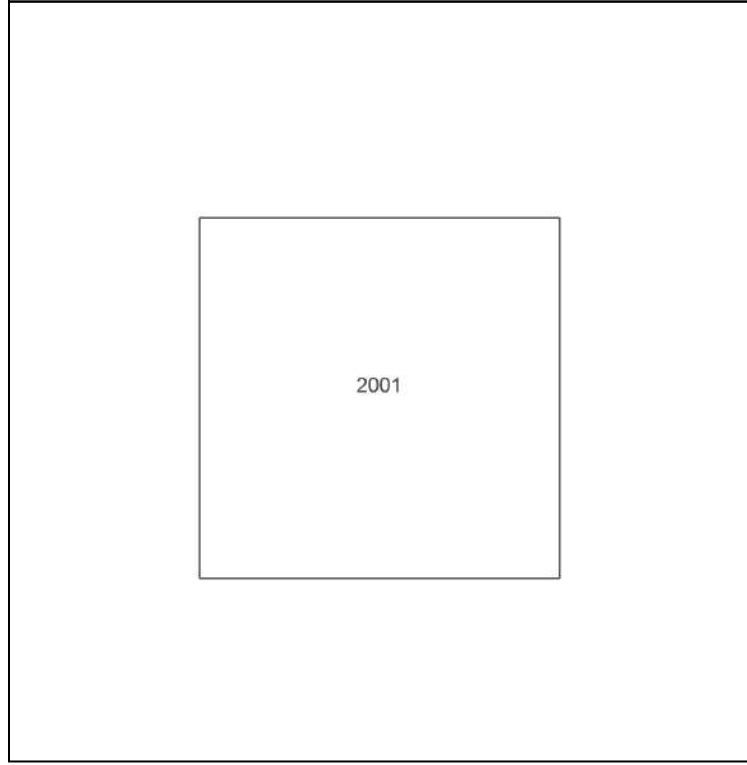
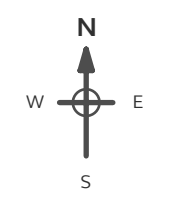
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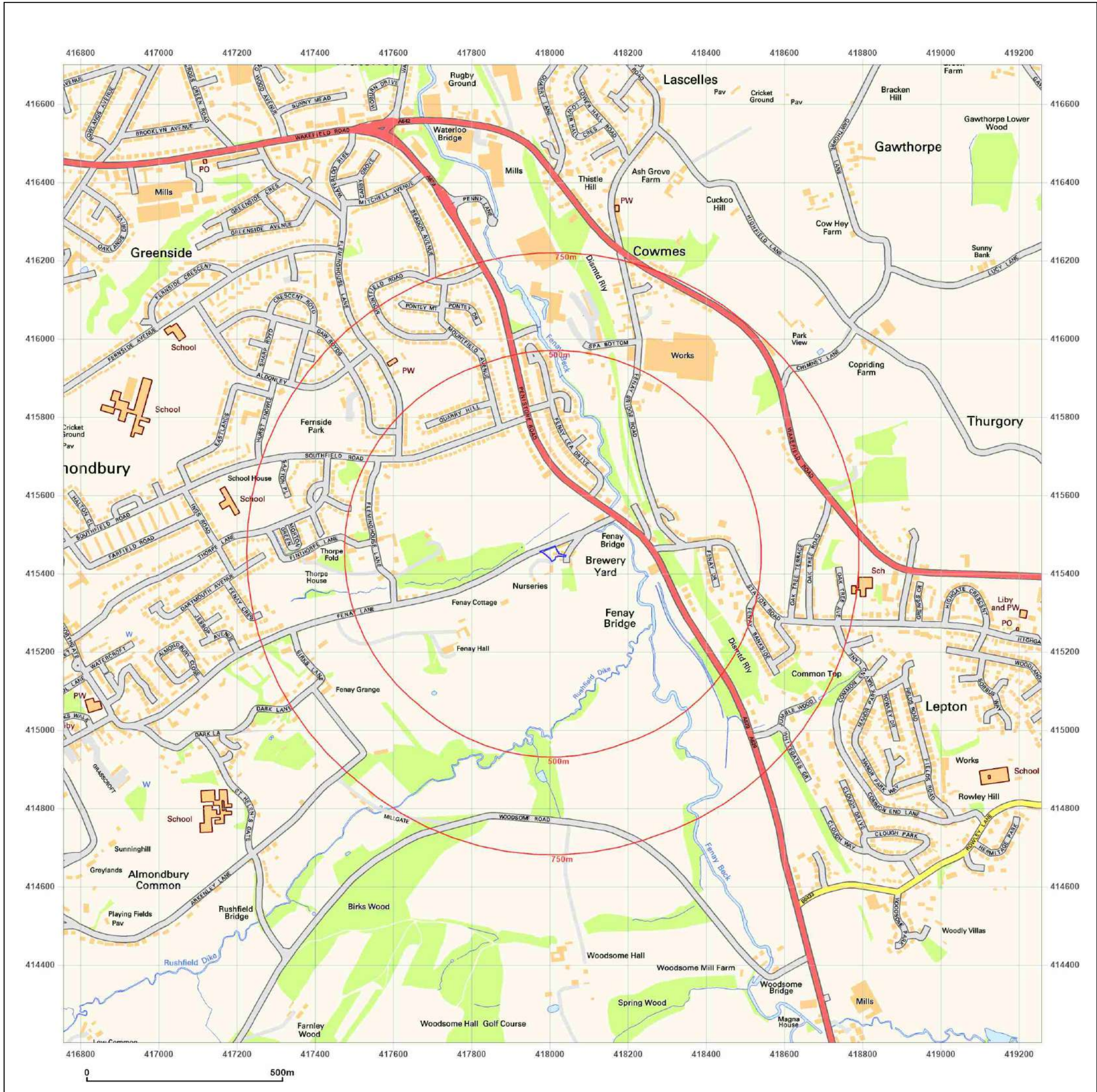


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Site Details:

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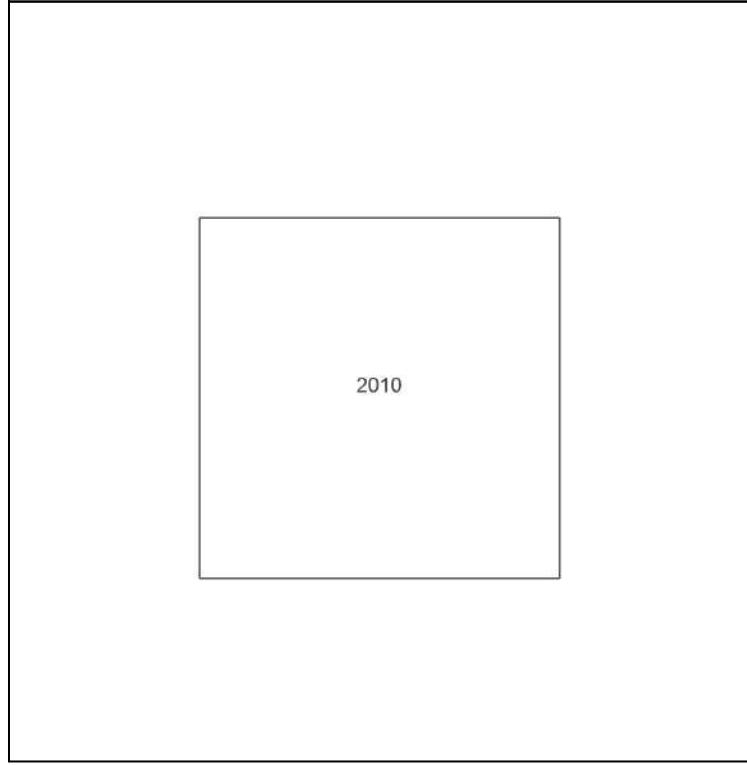
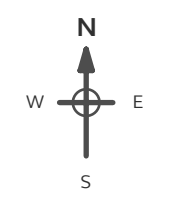
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Grid Ref: 418007, 415451

Map Name: National Grid

Map date: 2010

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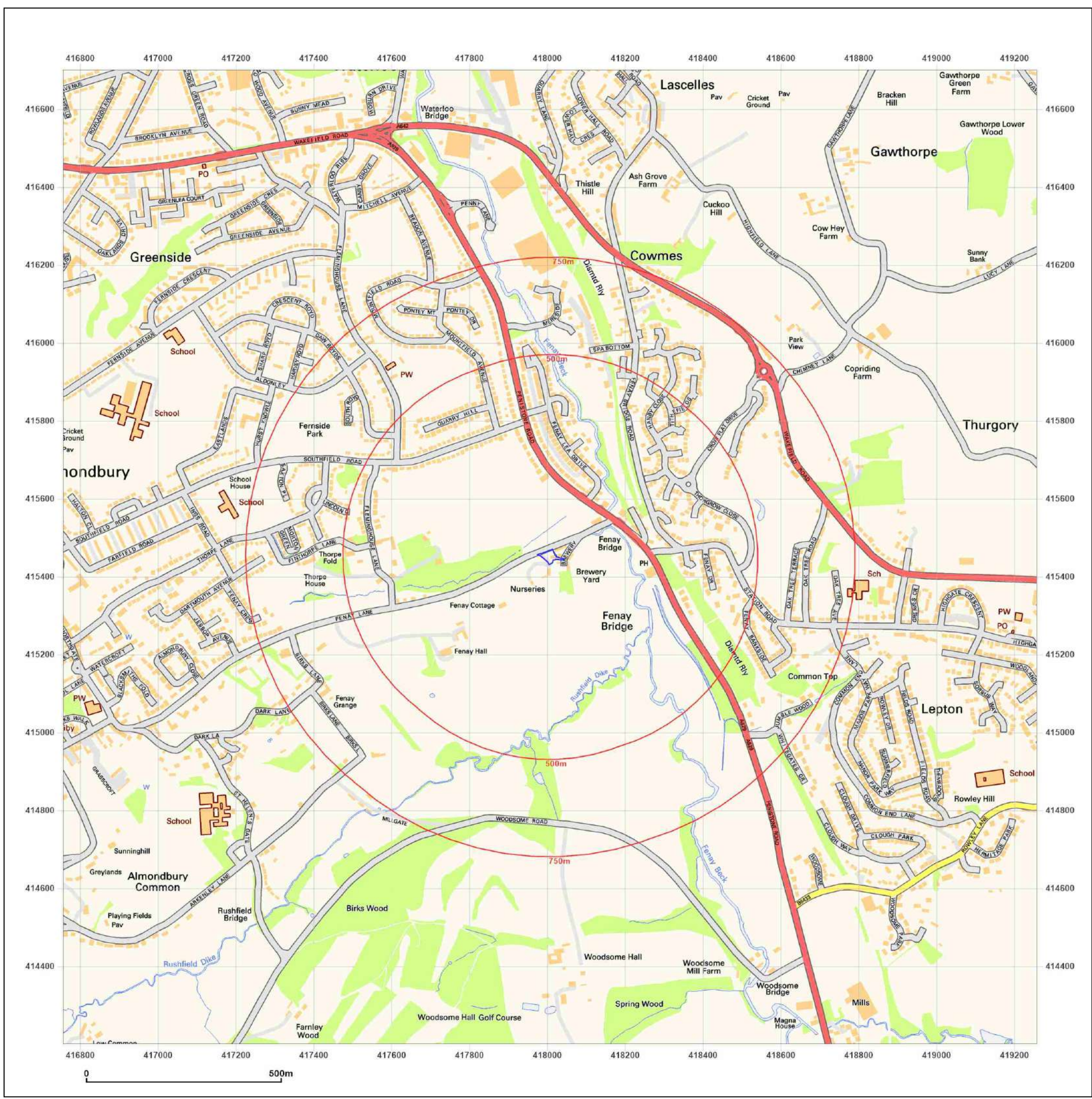


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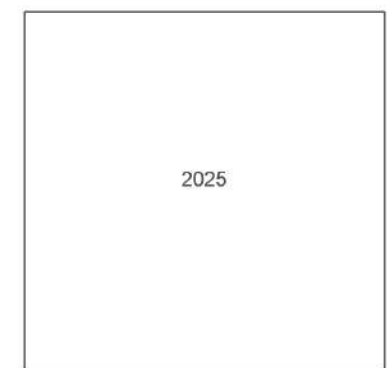
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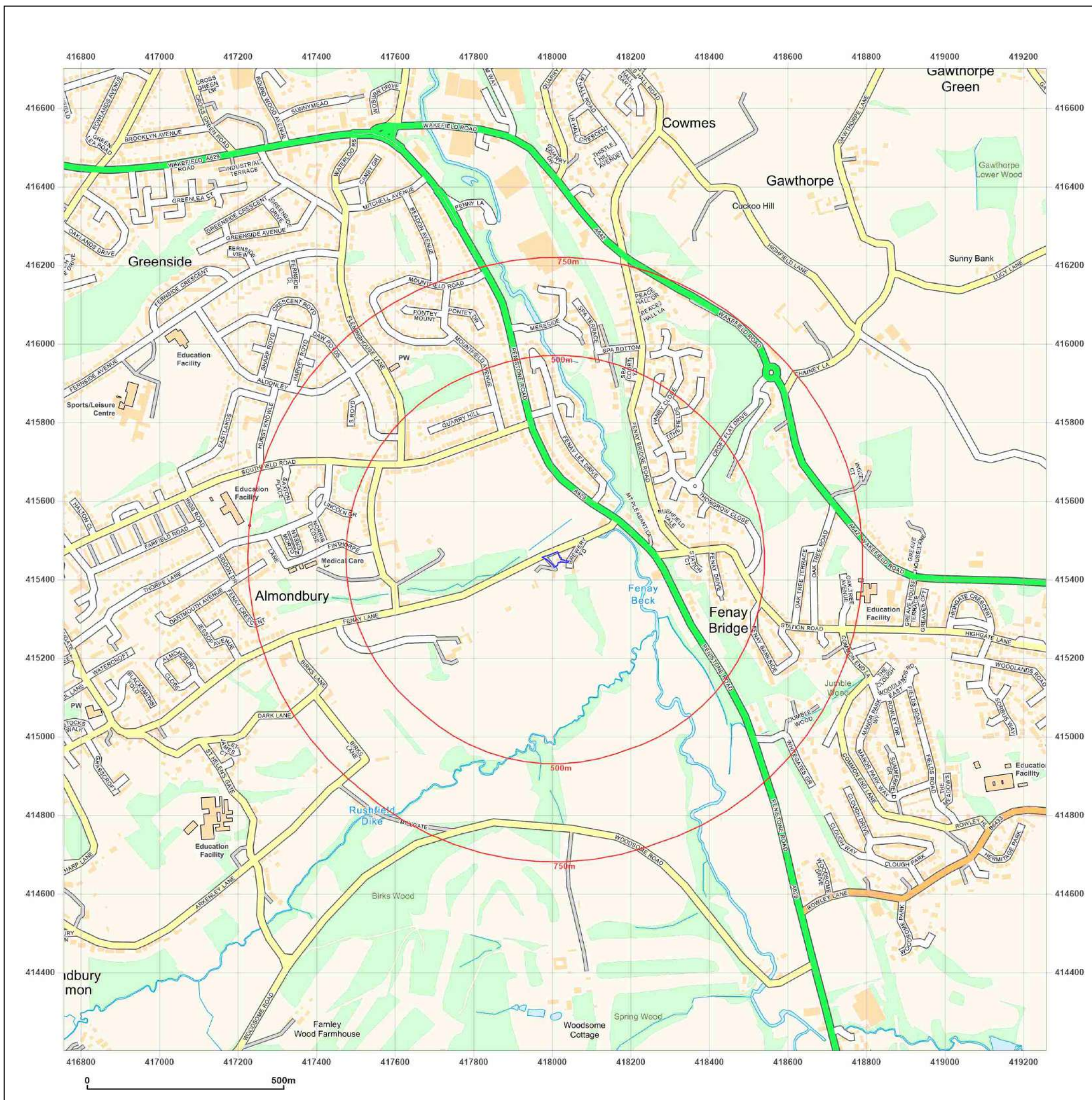


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Appendix 3

Groundsure Reports

2, BREWERY YARD, FENAY BRIDGE, HUDDERSFIELD, KIRKLEES, HD8 0AR

Order Details

Date: 11/04/2025
Your ref: C/5085/25/E/7746 PO-3299
Our Ref: GS-1T2-9HC-HZ2-GO5

Site Details

Location: 418005 415452
Area: 0.1 ha
Authority: [Kirklees Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.13 >](#)

[Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

| Page | Section | Past land use > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|-------------------------|--------------------------|--|---------|-------|---------|----------|-----------|
| 14 > | 1.1 > | Historical industrial land uses > | 2 | 3 | 20 | 50 | - |
| 17 > | 1.2 > | Historical tanks > | 0 | 0 | 5 | 2 | - |
| 18 > | 1.3 > | Historical energy features > | 0 | 0 | 0 | 5 | - |
| 18 | 1.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 19 > | 1.5 > | Historical garages > | 0 | 0 | 2 | 0 | - |
| 19 | 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 |
| 20 > | 2.1 > | Historical industrial land uses > | 2 | 4 | 29 | 62 | - |
| 24 > | 2.2 > | Historical tanks > | 0 | 0 | 5 | 4 | - |
| 25 > | 2.3 > | Historical energy features > | 0 | 0 | 0 | 9 | - |
| 25 | 2.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 25 > | 2.5 > | Historical garages > | 0 | 0 | 2 | 0 | - |
| Page | Section | Waste and landfill | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 27 | 3.1 | Active or recent landfill | 0 | 0 | 0 | 0 | - |
| 27 | 3.2 | Historical landfill (BGS records) | 0 | 0 | 0 | 0 | - |
| 27 | 3.3 | Historical landfill (LA/mapping records) | 0 | 0 | 0 | 0 | - |
| 27 | 3.4 | Historical landfill (EA/NRW records) | 0 | 0 | 0 | 0 | - |
| 27 | 3.5 | Historical waste sites | 0 | 0 | 0 | 0 | - |
| 28 | 3.6 | Licensed waste sites | 0 | 0 | 0 | 0 | - |
| 28 | 3.7 | Waste exemptions | 0 | 0 | 0 | 0 | - |
| Page | Section | Current industrial land use > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 29 > | 4.1 > | Recent industrial land uses > | 0 | 0 | 6 | - | - |
| 30 > | 4.2 > | Current or recent petrol stations > | 0 | 0 | 1 | 0 | - |
| 30 | 4.3 | Electricity cables | 0 | 0 | 0 | 0 | - |
| 30 | 4.4 | Gas pipelines | 0 | 0 | 0 | 0 | - |
| 31 | 4.5 | Sites determined as Contaminated Land | 0 | 0 | 0 | 0 | - |



| 31 > | 4.6 > | Control of Major Accident Hazards (COMAH) > | 0 | 0 | 0 | 1 | - |
|----------------------|------------------------|---|--------------------------|-------|---------|----------|-----------|
| 31 | 4.7 | Regulated explosive sites | 0 | 0 | 0 | 0 | - |
| 31 | 4.8 | Hazardous substance storage/usage | 0 | 0 | 0 | 0 | - |
| 32 | 4.9 | Historical licensed industrial activities (IPC) | 0 | 0 | 0 | 0 | - |
| 32 | 4.10 | Licensed industrial activities (Part A(1)) | 0 | 0 | 0 | 0 | - |
| 32 > | 4.11 > | Licensed pollutant release (Part A(2)/B) > | 0 | 0 | 1 | 0 | - |
| 32 | 4.12 | Radioactive Substance Authorisations | 0 | 0 | 0 | 0 | - |
| 33 > | 4.13 > | Licensed Discharges to controlled waters > | 0 | 0 | 5 | 5 | - |
| 34 | 4.14 | Pollutant release to surface waters (Red List) | 0 | 0 | 0 | 0 | - |
| 34 | 4.15 | Pollutant release to public sewer | 0 | 0 | 0 | 0 | - |
| 35 | 4.16 | List 1 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| 35 | 4.17 | List 2 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| 35 > | 4.18 > | Pollution Incidents (EA/NRW) > | 0 | 0 | 2 | 8 | - |
| 36 | 4.19 | Pollution inventory substances | 0 | 0 | 0 | 0 | - |
| 37 | 4.20 | Pollution inventory waste transfers | 0 | 0 | 0 | 0 | - |
| 37 | 4.21 | Pollution inventory radioactive waste | 0 | 0 | 0 | 0 | - |
| Page | Section | Hydrogeology > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 38 > | 5.1 > | Superficial aquifer > | Identified (within 500m) | | | | |
| 40 > | 5.2 > | Bedrock aquifer > | Identified (within 500m) | | | | |
| 42 > | 5.3 > | Groundwater vulnerability > | Identified (within 50m) | | | | |
| 43 | 5.4 | Groundwater vulnerability- soluble rock risk | None (within 0m) | | | | |
| 43 | 5.5 | Groundwater vulnerability- local information | None (within 0m) | | | | |
| 45 > | 5.6 > | Groundwater abstractions > | 0 | 0 | 0 | 0 | 10 |
| 48 > | 5.7 > | Surface water abstractions > | 0 | 0 | 0 | 0 | 7 |
| 50 | 5.8 | Potable abstractions | 0 | 0 | 0 | 0 | 0 |
| 50 | 5.9 | Source Protection Zones | 0 | 0 | 0 | 0 | - |
| 50 | 5.10 | Source Protection Zones (confined aquifer) | 0 | 0 | 0 | 0 | - |
| Page | Section | Hydrology > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 51 > | 6.1 > | Water Network (OS MasterMap) > | 0 | 4 | 6 | - | - |



| 52 > | 6.2 > | Surface water features > | 0 | 1 | 3 | - | - |
|----------------------|-------------------------|--|--|-------|---------|----------|-----------|
| 53 > | 6.3 > | WFD Surface water body catchments > | 1 | - | - | - | - |
| 53 > | 6.4 > | WFD Surface water bodies > | 0 | 0 | 1 | - | - |
| 53 > | 6.5 > | WFD Groundwater bodies > | 1 | - | - | - | - |
| Page | Section | River and coastal flooding > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 55 > | 7.1 > | Risk of flooding from rivers and the sea > | High (within 50m) | | | | |
| 56 > | 7.2 > | Historical Flood Events > | 0 | 0 | 2 | - | - |
| 56 > | 7.3 > | Flood Defences > | 0 | 0 | 4 | - | - |
| 57 | 7.4 | Areas Benefiting from Flood Defences | 0 | 0 | 0 | - | - |
| 57 | 7.5 | Flood Storage Areas | 0 | 0 | 0 | - | - |
| 58 > | 7.6 > | Flood Zone 2 > | Identified (within 50m) | | | | |
| 59 > | 7.7 > | Flood Zone 3 > | Identified (within 50m) | | | | |
| Page | Section | Surface water flooding > | | | | | |
| 60 > | 8.1 > | Surface water flooding > | 1 in 30 year, 0.3m - 1.0m (within 50m) | | | | |
| Page | Section | Groundwater flooding > | | | | | |
| 62 > | 9.1 > | Groundwater flooding > | Low (within 50m) | | | | |
| Page | Section | Environmental designations > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 63 | 10.1 | Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 |
| 64 | 10.2 | Conserved wetland sites (Ramsar sites) | 0 | 0 | 0 | 0 | 0 |
| 64 | 10.3 | Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 |
| 64 | 10.4 | Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 |
| 64 | 10.5 | National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 |
| 65 | 10.6 | Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 |
| 65 > | 10.7 > | Designated Ancient Woodland > | 0 | 0 | 0 | 0 | 11 |
| 66 | 10.8 | Biosphere Reserves | 0 | 0 | 0 | 0 | 0 |
| 66 | 10.9 | Forest Parks | 0 | 0 | 0 | 0 | 0 |
| 66 | 10.10 | Marine Conservation Zones | 0 | 0 | 0 | 0 | 0 |
| 66 > | 10.11 > | Green Belt > | 1 | 0 | 0 | 0 | 0 |
| 67 | 10.12 | Proposed Ramsar sites | 0 | 0 | 0 | 0 | 0 |



| 67 | 10.13 | Possible Special Areas of Conservation (pSAC) | 0 | 0 | 0 | 0 | 0 |
|----------------------|-------------------------|---|--------------------------|-------|---------|----------|-----------|
| 67 | 10.14 | Potential Special Protection Areas (pSPA) | 0 | 0 | 0 | 0 | 0 |
| 67 | 10.15 | Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 |
| 68 | 10.16 | Nitrate Vulnerable Zones | 0 | 0 | 0 | 0 | 0 |
| 69 > | 10.17 > | SSSI Impact Risk Zones > | 1 | - | - | - | - |
| 70 | 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 |
| 71 | 11.1 | World Heritage Sites | 0 | 0 | 0 | - | - |
| 72 | 11.2 | Area of Outstanding Natural Beauty | 0 | 0 | 0 | - | - |
| 72 | 11.3 | National Parks | 0 | 0 | 0 | - | - |
| 72 > | 11.4 > | Listed Buildings > | 0 | 1 | 0 | - | - |
| 73 | 11.5 | Conservation Areas | 0 | 0 | 0 | - | - |
| 73 | 11.6 | Scheduled Ancient Monuments | 0 | 0 | 0 | - | - |
| 73 | 11.7 | Registered Parks and Gardens | 0 | 0 | 0 | - | - |
| Page | Section | Agricultural designations > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 74 > | 12.1 > | Agricultural Land Classification > | Urban (within 250m) | | | | |
| 75 | 12.2 | Open Access Land | 0 | 0 | 0 | - | - |
| 75 | 12.3 | Tree Felling Licences | 0 | 0 | 0 | - | - |
| 75 > | 12.4 > | Environmental Stewardship Schemes > | 0 | 0 | 2 | - | - |
| 76 > | 12.5 > | Countryside Stewardship Schemes > | 0 | 1 | 1 | - | - |
| Page | Section | Habitat designations > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 77 > | 13.1 > | Priority Habitat Inventory > | 0 | 1 | 4 | - | - |
| 78 | 13.2 | Habitat Networks | 0 | 0 | 0 | - | - |
| 78 | 13.3 | Open Mosaic Habitat | 0 | 0 | 0 | - | - |
| 78 | 13.4 | Limestone Pavement Orders | 0 | 0 | 0 | - | - |
| Page | Section | Geology 1:10,000 scale > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 79 > | 14.1 > | 10k Availability > | Identified (within 500m) | | | | |
| 80 > | 14.2 > | Artificial and made ground (10k) > | 0 | 0 | 3 | 4 | - |
| 82 > | 14.3 > | Superficial geology (10k) > | 0 | 1 | 0 | 1 | - |



| 83 | 14.4 | Landslip (10k) | 0 | 0 | 0 | 0 | - |
|-----------------------|-------------------------|--|--------------------------|-------|---------|----------|-----------|
| 84 > | 14.5 > | Bedrock geology (10k) > | 2 | 0 | 2 | 18 | - |
| 86 > | 14.6 > | Bedrock faults and other linear features (10k) > | 0 | 0 | 0 | 14 | - |
| Page | Section | Geology 1:50,000 scale > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 87 > | 15.1 > | 50k Availability > | Identified (within 500m) | | | | |
| 88 > | 15.2 > | Artificial and made ground (50k) > | 0 | 0 | 0 | 1 | - |
| 89 | 15.3 | Artificial ground permeability (50k) | 0 | 0 | - | - | - |
| 90 > | 15.4 > | Superficial geology (50k) > | 0 | 1 | 0 | 0 | - |
| 91 > | 15.5 > | Superficial permeability (50k) > | Identified (within 50m) | | | | |
| 91 | 15.6 | Landslip (50k) | 0 | 0 | 0 | 0 | - |
| 91 | 15.7 | Landslip permeability (50k) | None (within 50m) | | | | |
| 92 > | 15.8 > | Bedrock geology (50k) > | 2 | 0 | 2 | 13 | - |
| 93 > | 15.9 > | Bedrock permeability (50k) > | Identified (within 50m) | | | | |
| 94 > | 15.10 > | Bedrock faults and other linear features (50k) > | 0 | 0 | 0 | 6 | - |
| Page | Section | Boreholes > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 95 > | 16.1 > | BGS Boreholes > | 0 | 0 | 14 | - | - |
| Page | Section | Natural ground subsidence > | | | | | |
| 97 > | 17.1 > | Shrink swell clays > | Very low (within 50m) | | | | |
| 98 > | 17.2 > | Running sands > | Low (within 50m) | | | | |
| 100 > | 17.3 > | Compressible deposits > | Moderate (within 50m) | | | | |
| 102 > | 17.4 > | Collapsible deposits > | Very low (within 50m) | | | | |
| 103 > | 17.5 > | Landslides > | Low (within 50m) | | | | |
| 105 > | 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 |
| 107 > | 18.1 > | BritPits > | 0 | 0 | 0 | 1 | - |
| 108 > | 18.2 > | Surface ground workings > | 0 | 0 | 18 | - | - |
| 109 > | 18.3 > | Underground workings > | 0 | 0 | 0 | 1 | 8 |
| 109 | 18.4 | Underground mining extents | 0 | 0 | 0 | 0 | - |
| 110 > | 18.5 > | Historical Mineral Planning Areas > | 0 | 0 | 0 | 3 | - |



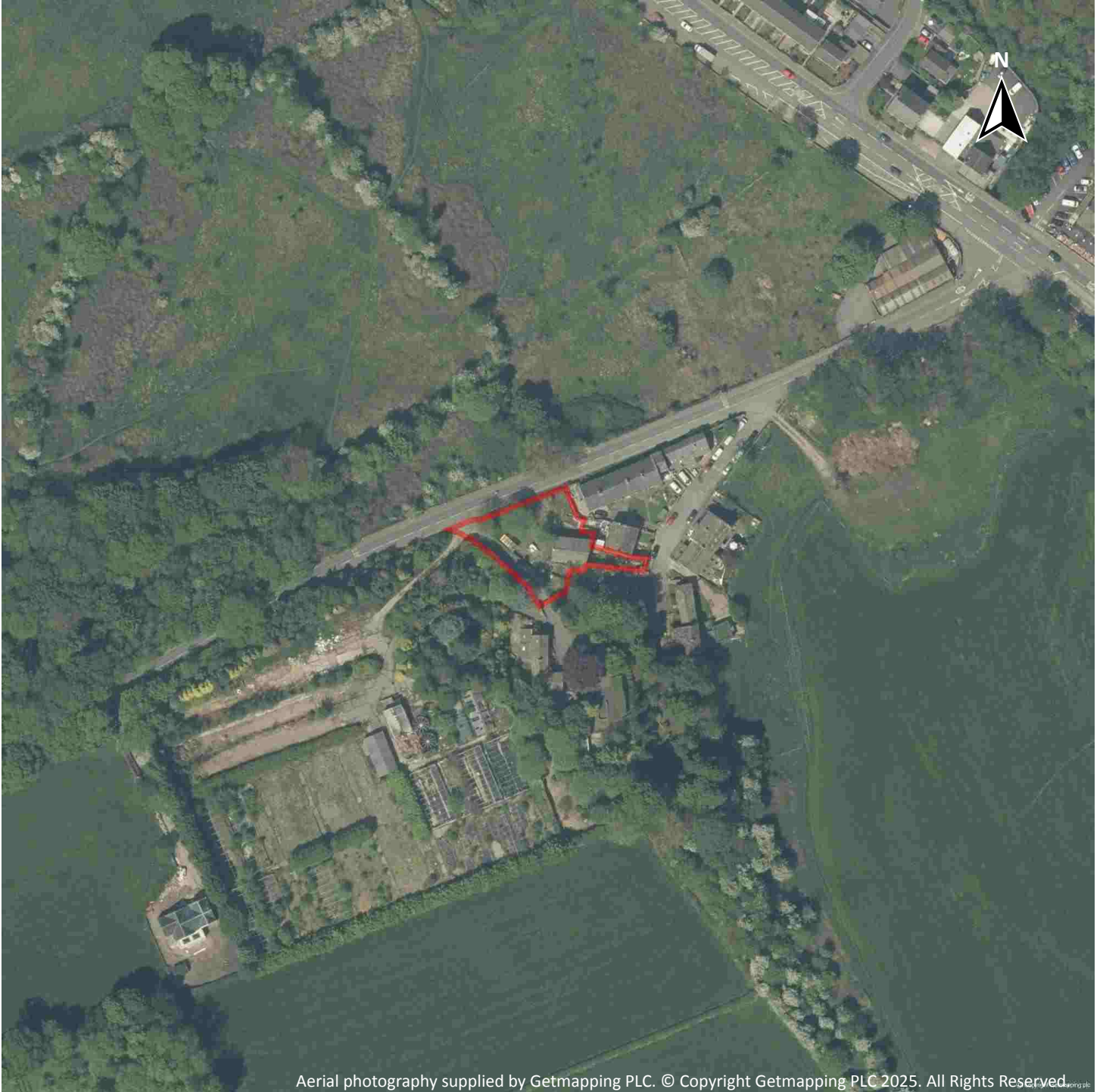
| 110 | 18.6 | Non-coal mining | 0 | 0 | 0 | 0 | 0 |
|-----------------|-------------------|---|--------------------------|-------|---------|----------|-----------|
| 110 | 18.7 | JPB mining areas | None (within 0m) | | | | |
| 111 | 18.8 | The Coal Authority non-coal mining | 0 | 0 | 0 | 0 | - |
| 111 | 18.9 | Researched mining | 0 | 0 | 0 | 0 | - |
| 111 | 18.10 | Mining record office plans | 0 | 0 | 0 | 0 | - |
| 111 | 18.11 | BGS mine plans | 0 | 0 | 0 | 0 | - |
| 112 > | 18.12 > | Coal mining > | Identified (within 0m) | | | | |
| 112 | 18.13 | Brine areas | None (within 0m) | | | | |
| 112 | 18.14 | Gypsum areas | None (within 0m) | | | | |
| 112 | 18.15 | Tin mining | None (within 0m) | | | | |
| 112 | 18.16 | Clay mining | None (within 0m) | | | | |
| Page | Section | Ground cavities and sinkholes | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 113 | 19.1 | Natural cavities | 0 | 0 | 0 | 0 | - |
| 113 | 19.2 | Mining cavities | 0 | 0 | 0 | 0 | 0 |
| 113 | 19.3 | Reported recent incidents | 0 | 0 | 0 | 0 | - |
| 113 | 19.4 | Historical incidents | 0 | 0 | 0 | 0 | - |
| Page | Section | Radon > | | | | | |
| 115 > | 20.1 > | Radon > | Less than 1% (within 0m) | | | | |
| Page | Section | Soil chemistry > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 117 > | 21.1 > | BGS Estimated Background Soil Chemistry > | 3 | 6 | - | - | - |
| 118 | 21.2 | BGS Estimated Urban Soil Chemistry | 0 | 0 | - | - | - |
| 118 | 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 |
| 119 | 22.1 | Underground railways (London) | 0 | 0 | 0 | - | - |
| 119 | 22.2 | Underground railways (Non-London) | 0 | 0 | 0 | - | - |
| 120 | 22.3 | Railway tunnels | 0 | 0 | 0 | - | - |
| 120 | 22.4 | Historical railway and tunnel features | 0 | 0 | 0 | - | - |
| 120 | 22.5 | Royal Mail tunnels | 0 | 0 | 0 | - | - |
| 120 > | 22.6 > | Historical railways > | 0 | 0 | 1 | - | - |



| | | | | | | | |
|-----|------|-------------|---|---|---|---|---|
| 121 | 22.7 | Railways | 0 | 0 | 0 | - | - |
| 121 | 22.8 | Crossrail 2 | 0 | 0 | 0 | 0 | - |
| 121 | 22.9 | HS2 | 0 | 0 | 0 | 0 | - |



Recent aerial photograph



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Capture Date: 30/05/2021

Site Area: 0.1ha



Recent site history - 2018 aerial photograph



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Capture Date: 01/07/2018

Site Area: 0.1ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.1ha



Recent site history - 1999 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 04/09/1999

Site Area: 0.1ha



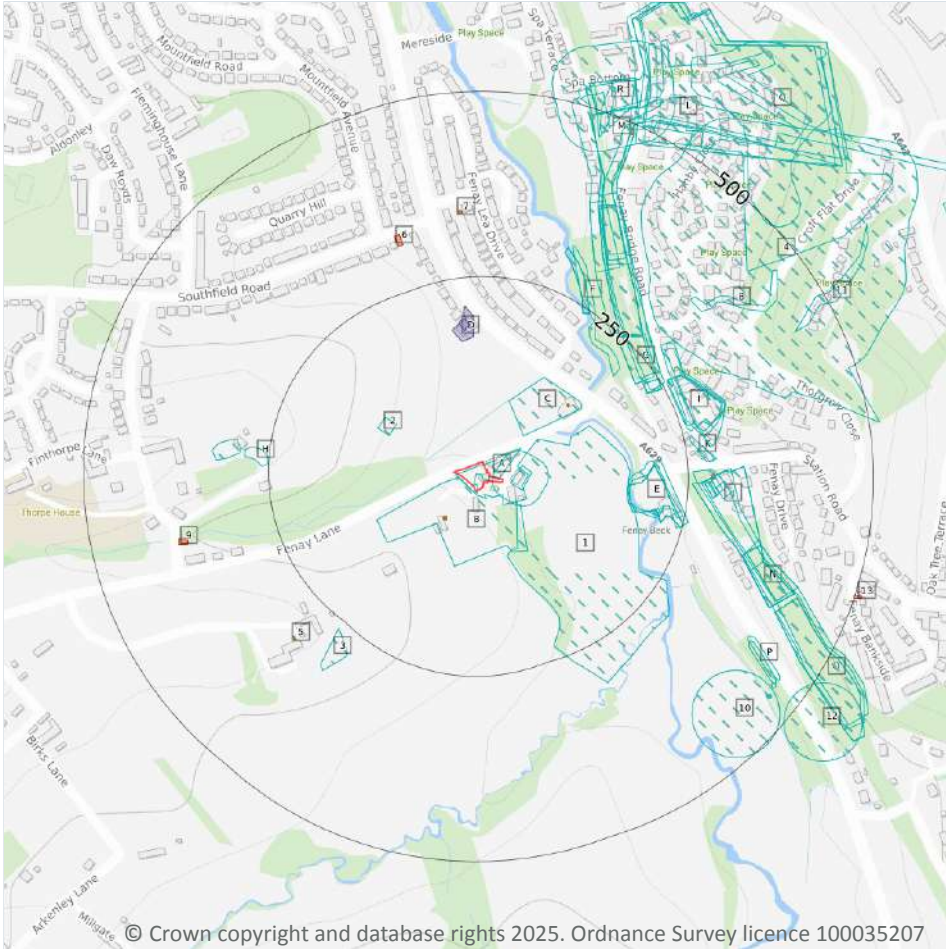
OS MasterMap site plan



Site Area: 0.1ha



1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m **75**

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

Features are displayed on the Past land use map on [page 14](#) >

| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| A | On site | Brewery | 1892 | 1433859 |



| ID | Location | Land use | Dates present | Group ID |
|----------|----------------|-----------------------------|---------------|----------------|
| A | On site | Brewery Yard | 1965 | 1543237 |
| B | 3m W | Nurseries | 1975 - 1988 | 1581815 |
| A | 11m E | Brewery Yard | 1988 | 1486789 |
| 1 | 26m E | Brewery Yard | 1975 | 1497388 |
| C | 65m NE | Unspecified Works | 1975 | 1460175 |
| 2 | 100m NW | Brewery Yard | 1975 | 1437445 |
| E | 168m E | Unspecified Disused Mills | 1892 | 1432859 |
| E | 168m E | Unspecified Mills | 1904 | 1526155 |
| E | 168m E | Unspecified Mills | 1938 | 1552878 |
| E | 169m E | Unspecified Mills | 1948 | 1548338 |
| E | 169m E | Unspecified Mills | 1956 - 1988 | 1552454 |
| F | 203m NE | Unspecified Ground Workings | 1956 - 1965 | 1579569 |
| E | 207m E | Unspecified Tank | 1948 | 1472490 |
| G | 220m NE | Cuttings | 1938 - 1948 | 1488736 |
| G | 220m NE | Cuttings | 1892 - 1904 | 1533055 |
| G | 227m NE | Cuttings | 1938 | 1520887 |
| G | 227m NE | Cuttings | 1904 | 1528610 |
| F | 230m NE | Cuttings | 1988 | 1546634 |
| F | 233m NE | Cuttings | 1956 - 1975 | 1513872 |
| F | 242m NE | Unspecified Ground Workings | 1948 | 1489154 |
| F | 242m NE | Unspecified Ground Workings | 1904 | 1543399 |
| F | 245m NE | Cuttings | 1938 - 1948 | 1486650 |
| F | 250m NE | Cuttings | 1888 | 1486227 |
| F | 250m NE | Cuttings | 1904 | 1497486 |
| H | 251m W | Cuttings | 1905 | 1433298 |
| I | 255m E | Unspecified Works | 1948 | 1497308 |
| J | 256m E | Railway Sidings | 1892 - 1904 | 1517310 |
| J | 256m E | Railway Sidings | 1938 | 1545133 |



| ID | Location | Land use | Dates present | Group ID |
|----|----------|-----------------------------|---------------|----------|
| I | 257m E | Bridge Works | 1938 | 1486551 |
| J | 257m E | Railway Sidings | 1948 | 1556254 |
| K | 257m E | Railway Buildings | 1956 | 1436065 |
| I | 260m E | Bridge Works | 1956 | 1534454 |
| 3 | 262m SW | Unspecified Heap | 1905 | 1466688 |
| K | 265m E | Railway Building | 1965 | 1475699 |
| I | 267m E | Unspecified Works | 1975 | 1525817 |
| I | 268m E | Unspecified Works | 1988 | 1554187 |
| J | 268m E | Railway Sidings | 1956 - 1965 | 1566744 |
| K | 273m E | Railway Station | 1892 - 1904 | 1497281 |
| K | 273m E | Railway Station | 1938 | 1544727 |
| K | 276m E | Railway Station | 1948 | 1532422 |
| K | 280m E | Railway Station | 1956 | 1498736 |
| K | 288m E | Railway Station | 1965 | 1499243 |
| H | 289m W | Unspecified Pit | 1905 | 1450201 |
| 4 | 294m NE | Clay Pit | 1975 - 1988 | 1554341 |
| L | 298m NE | Tramway Sidings | 1938 - 1948 | 1525884 |
| L | 315m NE | Railway Sidings | 1956 | 1512081 |
| M | 315m NE | Railway Sidings | 1965 | 1561432 |
| L | 320m NE | Railway Sidings | 1948 | 1512386 |
| M | 324m NE | Railway Sidings | 1904 | 1526445 |
| N | 339m E | Cuttings | 1904 | 1555803 |
| N | 339m E | Cuttings | 1938 | 1577585 |
| O | 339m E | Cuttings | 1948 | 1496643 |
| O | 343m E | Cuttings | 1956 - 1988 | 1532483 |
| 8 | 350m NE | Unspecified Ground Workings | 1965 | 1439222 |
| N | 355m E | Cuttings | 1892 | 1565703 |
| 10 | 385m SE | Unspecified Old Shaft | 1938 | 1573343 |



| ID | Location | Land use | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| P | 392m SE | Gravel Pit | 1956 | 1474276 |
| P | 397m SE | Refuse Heap | 1938 | 1434349 |
| O | 408m SE | Cuttings | 1892 - 1904 | 1552433 |
| O | 408m SE | Cuttings | 1938 | 1560555 |
| Q | 432m NE | Brick Works | 1956 | 1522239 |
| 11 | 442m NE | Unspecified Ground Workings | 1965 | 1439221 |
| R | 443m N | Unspecified Works | 1975 | 1513357 |
| P | 454m SE | Unspecified Old Shaft | 1956 | 1446437 |
| P | 459m SE | Unspecified Old Shaft | 1948 | 1568448 |
| P | 459m SE | Unspecified Old Shaft | 1948 | 1571174 |
| R | 473m N | Refuse Heap | 1938 | 1513612 |
| L | 476m NE | Brick Works | 1948 | 1502040 |
| L | 485m NE | Unspecified Works | 1965 - 1988 | 1484673 |
| 12 | 487m SE | Unspecified Disused Shaft | 1988 | 1572457 |
| L | 492m NE | Brick Works | 1938 | 1488275 |
| R | 493m N | Unspecified Commercial/Industrial | 1988 | 1431645 |
| R | 493m N | Unspecified Works | 1965 | 1520458 |
| Q | 496m NE | Unspecified Pit | 1956 | 1515149 |

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

7

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

Features are displayed on the Past land use map on [page 14 >](#)



| ID | Location | Land use | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| B | 53m SW | Unspecified Tank | 1985 | 253108 |
| B | 54m SW | Unspecified Tank | 1993 | 257938 |
| C | 131m NE | Unspecified Tank | 1993 | 250984 |
| C | 131m NE | Unspecified Tank | 1993 | 255068 |
| C | 133m NE | Unspecified Tank | 1985 | 248851 |
| 5 | 308m SW | Unspecified Tank | 1893 | 239714 |
| R | 485m NE | Unspecified Tank | 1985 - 1993 | 246297 |

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

| | |
|----------------------------|----------|
| Records within 500m | 5 |
|----------------------------|----------|

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

Features are displayed on the Past land use map on [page 14 >](#)

| ID | Location | Land use | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| K | 280m E | Electricity Substation | 1971 - 1986 | 160001 |
| 6 | 312m N | Electricity Substation | 1979 - 1990 | 147775 |
| 7 | 337m N | Electricity Substation | 1979 - 1990 | 156485 |
| 9 | 370m W | Electricity Substation | 1985 - 1993 | 152890 |
| 13 | 499m E | Electricity Substation | 1971 | 154161 |

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

| | |
|----------------------------|----------|
| Records within 500m | 0 |
|----------------------------|----------|

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

2

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

Features are displayed on the Past land use map on [page 14 >](#)

| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| D | 165m N | Garage | 1990 | 47303 |
| D | 179m N | Garage | 1979 | 47106 |

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

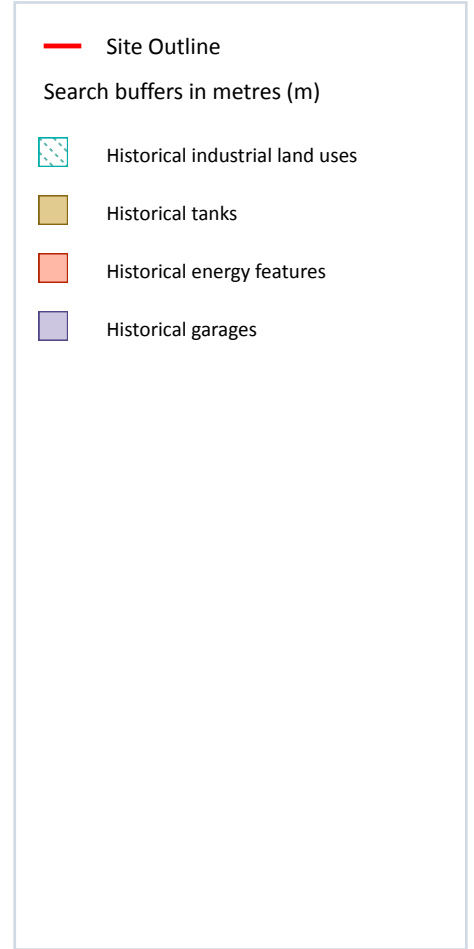
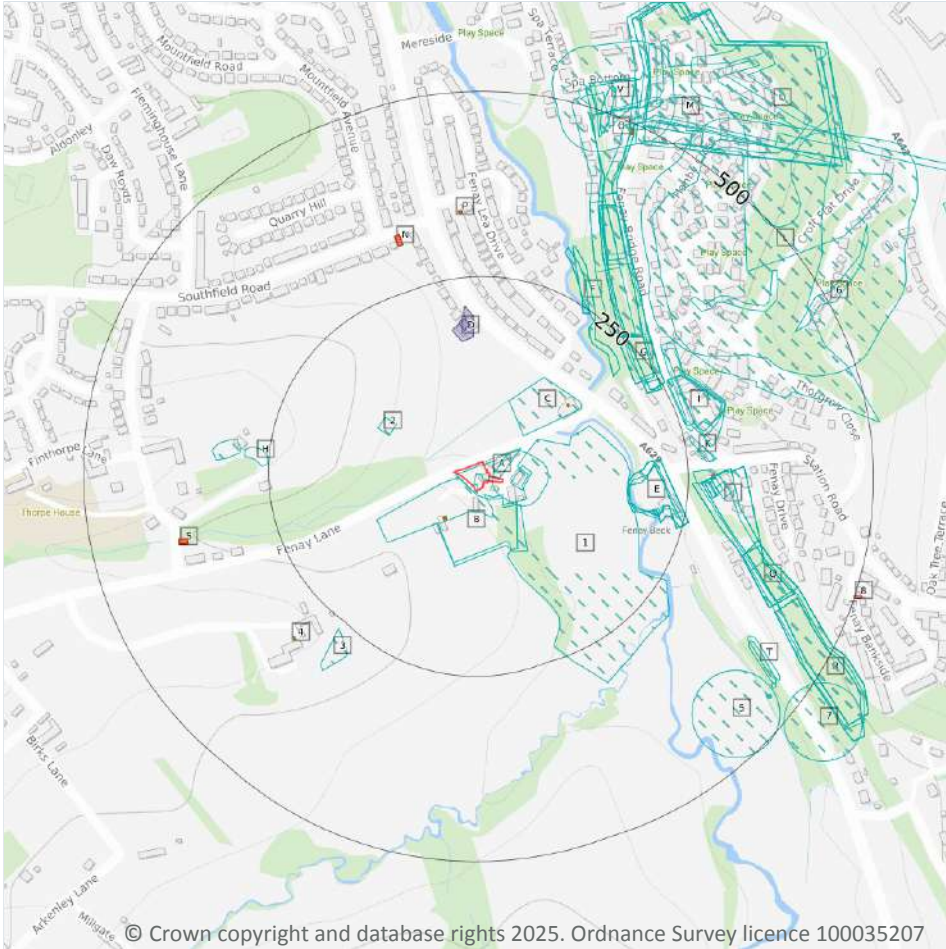
0

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

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

97

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 20](#) >

| ID | Location | Land Use | Date | Group ID |
|----|----------|--------------|------|----------|
| A | On site | Brewery | 1892 | 1433859 |
| A | On site | Brewery Yard | 1965 | 1543237 |
| B | 3m W | Nurseries | 1988 | 1581815 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| B | 9m S | Nurseries | 1975 | 1581815 |
| A | 11m E | Brewery Yard | 1988 | 1486789 |
| 1 | 26m E | Brewery Yard | 1975 | 1497388 |
| C | 65m NE | Unspecified Works | 1975 | 1460175 |
| 2 | 100m NW | Brewery Yard | 1975 | 1437445 |
| E | 168m E | Unspecified Mills | 1938 | 1552878 |
| E | 168m E | Unspecified Mills | 1904 | 1526155 |
| E | 168m E | Unspecified Disused Mills | 1892 | 1432859 |
| E | 169m E | Unspecified Mills | 1948 | 1548338 |
| E | 169m E | Unspecified Mills | 1988 | 1552454 |
| E | 169m E | Unspecified Mills | 1965 | 1552454 |
| E | 169m E | Unspecified Mills | 1956 | 1552454 |
| E | 169m E | Unspecified Mills | 1975 | 1552454 |
| F | 203m NE | Unspecified Ground Workings | 1965 | 1579569 |
| F | 203m NE | Unspecified Ground Workings | 1956 | 1579569 |
| E | 207m E | Unspecified Tank | 1948 | 1472490 |
| G | 220m NE | Cuttings | 1938 | 1488736 |
| G | 220m NE | Cuttings | 1904 | 1533055 |
| G | 220m NE | Cuttings | 1892 | 1533055 |
| G | 227m NE | Cuttings | 1938 | 1520887 |
| G | 227m NE | Cuttings | 1904 | 1528610 |
| G | 227m NE | Cuttings | 1948 | 1488736 |
| F | 230m NE | Cuttings | 1988 | 1546634 |
| F | 233m NE | Cuttings | 1965 | 1513872 |
| F | 233m NE | Cuttings | 1956 | 1513872 |
| F | 233m NE | Cuttings | 1975 | 1513872 |
| F | 242m NE | Unspecified Ground Workings | 1904 | 1543399 |
| F | 242m NE | Unspecified Ground Workings | 1948 | 1489154 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|-------------------|------|----------|
| F | 245m NE | Cuttings | 1938 | 1486650 |
| F | 250m NE | Cuttings | 1904 | 1497486 |
| F | 250m NE | Cuttings | 1888 | 1486227 |
| F | 250m NE | Cuttings | 1948 | 1486650 |
| H | 251m W | Cuttings | 1905 | 1433298 |
| I | 255m E | Unspecified Works | 1948 | 1497308 |
| J | 256m E | Railway Sidings | 1938 | 1545133 |
| J | 256m E | Railway Sidings | 1904 | 1517310 |
| J | 256m E | Railway Sidings | 1892 | 1517310 |
| I | 257m E | Bridge Works | 1938 | 1486551 |
| J | 257m E | Railway Sidings | 1948 | 1556254 |
| K | 257m E | Railway Buildings | 1956 | 1436065 |
| I | 260m E | Bridge Works | 1956 | 1534454 |
| 3 | 262m SW | Unspecified Heap | 1905 | 1466688 |
| K | 265m E | Railway Building | 1965 | 1475699 |
| I | 267m E | Unspecified Works | 1975 | 1525817 |
| I | 268m E | Unspecified Works | 1988 | 1554187 |
| J | 268m E | Railway Sidings | 1965 | 1566744 |
| J | 268m E | Railway Sidings | 1956 | 1566744 |
| K | 273m E | Railway Station | 1938 | 1544727 |
| K | 273m E | Railway Station | 1904 | 1497281 |
| K | 273m E | Railway Station | 1892 | 1497281 |
| K | 276m E | Railway Station | 1948 | 1532422 |
| K | 280m E | Railway Station | 1956 | 1498736 |
| K | 288m E | Railway Station | 1965 | 1499243 |
| H | 289m W | Unspecified Pit | 1905 | 1450201 |
| L | 294m NE | Clay Pit | 1975 | 1554341 |
| M | 298m NE | Tramway Sidings | 1938 | 1525884 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| L | 304m NE | Clay Pit | 1988 | 1554341 |
| M | 315m NE | Railway Sidings | 1956 | 1512081 |
| O | 315m NE | Railway Sidings | 1965 | 1561432 |
| M | 320m NE | Railway Sidings | 1948 | 1512386 |
| O | 324m NE | Railway Sidings | 1904 | 1526445 |
| Q | 339m E | Cuttings | 1938 | 1577585 |
| Q | 339m E | Cuttings | 1904 | 1555803 |
| R | 339m E | Cuttings | 1948 | 1496643 |
| R | 343m E | Cuttings | 1988 | 1532483 |
| R | 343m E | Cuttings | 1965 | 1532483 |
| R | 343m E | Cuttings | 1956 | 1532483 |
| R | 343m E | Cuttings | 1975 | 1532483 |
| L | 350m NE | Unspecified Ground Workings | 1965 | 1439222 |
| Q | 355m E | Cuttings | 1892 | 1565703 |
| 5 | 385m SE | Unspecified Old Shaft | 1938 | 1573343 |
| T | 392m SE | Gravel Pit | 1956 | 1474276 |
| T | 397m SE | Refuse Heap | 1938 | 1434349 |
| R | 408m SE | Cuttings | 1938 | 1560555 |
| R | 408m SE | Cuttings | 1904 | 1552433 |
| R | 408m SE | Cuttings | 1892 | 1552433 |
| U | 432m NE | Brick Works | 1956 | 1522239 |
| 6 | 442m NE | Unspecified Ground Workings | 1965 | 1439221 |
| V | 443m N | Unspecified Works | 1975 | 1513357 |
| T | 454m SE | Unspecified Old Shaft | 1956 | 1446437 |
| T | 459m SE | Unspecified Old Shaft | 1948 | 1571174 |
| T | 459m SE | Unspecified Old Shaft | 1948 | 1568448 |
| V | 473m N | Refuse Heap | 1938 | 1513612 |
| V | 473m N | Refuse Heap | 1938 | 1513612 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| M | 476m NE | Brick Works | 1948 | 1502040 |
| M | 485m NE | Unspecified Works | 1988 | 1484673 |
| M | 485m NE | Unspecified Works | 1965 | 1484673 |
| M | 485m NE | Unspecified Works | 1975 | 1484673 |
| 7 | 487m SE | Unspecified Disused Shaft | 1988 | 1572457 |
| M | 492m NE | Brick Works | 1938 | 1488275 |
| M | 492m NE | Brick Works | 1938 | 1488275 |
| V | 493m N | Unspecified Commercial/Industrial | 1988 | 1431645 |
| V | 493m N | Unspecified Works | 1965 | 1520458 |
| U | 496m NE | Unspecified Pit | 1956 | 1515149 |

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

9

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 20 >](#)

| ID | Location | Land Use | Date | Group ID |
|----|----------|------------------|------|----------|
| B | 53m SW | Unspecified Tank | 1985 | 253108 |
| B | 54m SW | Unspecified Tank | 1993 | 257938 |
| C | 131m NE | Unspecified Tank | 1993 | 250984 |
| C | 131m NE | Unspecified Tank | 1993 | 255068 |
| C | 133m NE | Unspecified Tank | 1985 | 248851 |
| 4 | 308m SW | Unspecified Tank | 1893 | 239714 |
| V | 485m NE | Unspecified Tank | 1993 | 246297 |
| V | 485m NE | Unspecified Tank | 1993 | 246297 |
| V | 486m NE | Unspecified Tank | 1985 | 246297 |

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

9

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 20 >](#)

| ID | Location | Land Use | Date | Group ID |
|----|----------|------------------------|------|----------|
| K | 280m E | Electricity Substation | 1971 | 160001 |
| K | 280m E | Electricity Substation | 1986 | 160001 |
| N | 312m N | Electricity Substation | 1990 | 147775 |
| N | 313m N | Electricity Substation | 1979 | 147775 |
| P | 337m N | Electricity Substation | 1979 | 156485 |
| P | 337m N | Electricity Substation | 1990 | 156485 |
| S | 370m W | Electricity Substation | 1993 | 152890 |
| S | 371m W | Electricity Substation | 1985 | 152890 |
| 8 | 499m E | Electricity Substation | 1971 | 154161 |

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

2

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 20 >](#)



| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| D | 165m N | Garage | 1990 | 47303 |
| D | 179m N | Garage | 1979 | 47106 |

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill

3.1 Active or recent landfill

Records within 500m 0

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

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

3.2 Historical landfill (BGS records)

Records within 500m 0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m 0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m 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 0

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

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



3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

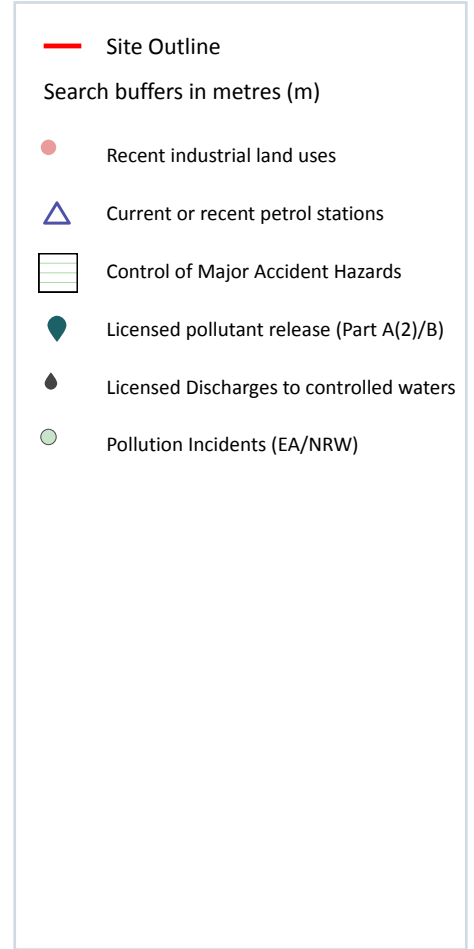
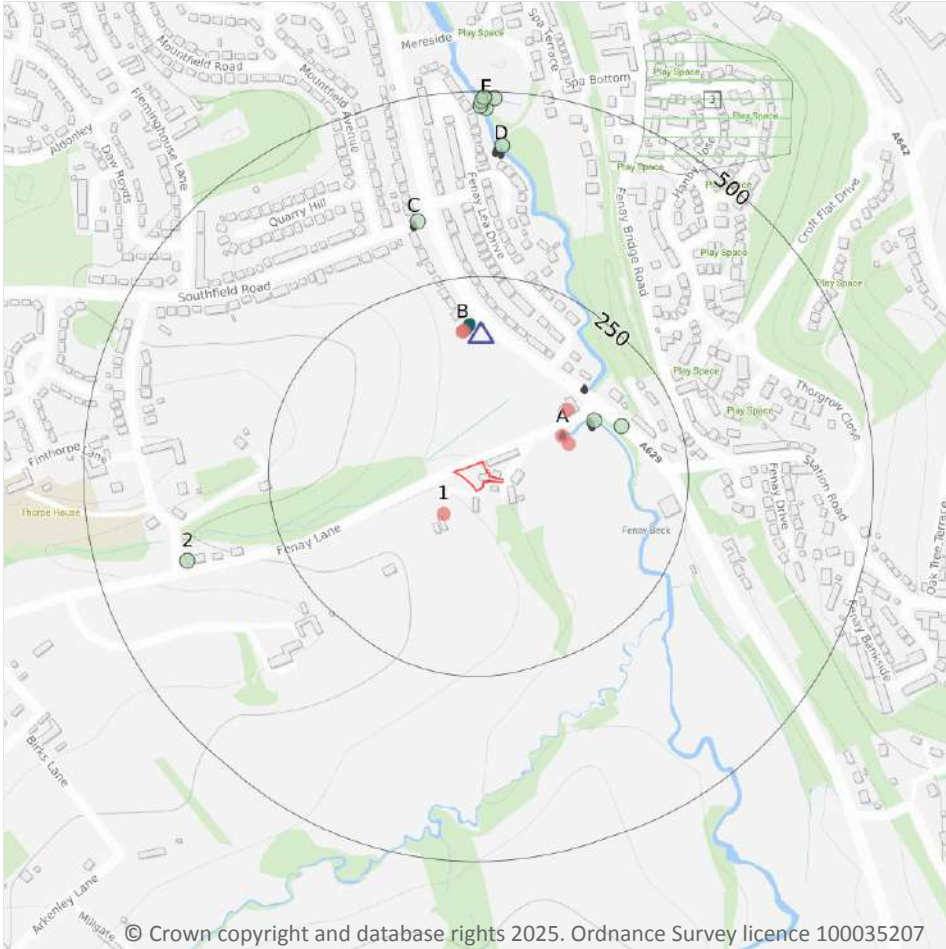
Records within 500m

0

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.

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 29 >](#)

| ID | Location | Company | Address | Activity | Category |
|----|----------|---------|---------------------|--|-------------------------------|
| 1 | 54m SW | Tank | West Yorkshire, HD8 | Tanks (Generic) | Industrial Features |
| A | 99m NE | Outfall | West Yorkshire, HD8 | Waste Storage, Processing and Disposal | Infrastructure and Facilities |



| ID | Location | Company | Address | Activity | Category |
|----|----------|------------------------|---|--|---------------------------------------|
| A | 101m E | Sewage Pumping Station | West Yorkshire, HD8 | Waste Storage, Processing and Disposal | Infrastructure and Facilities |
| A | 128m NE | Works | West Yorkshire, HD8 | Unspecified Works Or Factories | Industrial Features |
| B | 177m N | Texaco | Penistone Road, Waterloo, Huddersfield, West Yorkshire, HD5 8RL | Petrol and Fuel Stations | Road and Rail |
| B | 178m N | Rss Fenay Bridge | Fenay Bridge Service Station, Penistone Road, Waterloo, Huddersfield, West Yorkshire, HD5 8RL | Vehicle Cleaning Services | Personal, Consumer and Other Services |

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 29 >](#)

| ID | Location | Company | Address | LPG | Status |
|----|----------|---------|---|-----|--------|
| B | 175m N | ESSO | Penistone Road, Fenay Bridge, Huddersfield, West Yorkshire, HD5 8RL | No | Open |

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m **0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m **1**

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.

Features are displayed on the Current industrial land use map on [page 29 >](#)

| ID | Location | Company | Address | Operational status | Tier |
|----|----------|---------------------|--|-----------------------|------|
| 3 | 452m NE | Elliot's Bricks Ltd | Elliot's Bricks Ltd, Fenay Bridge, Huddersfield, HD8 0BA | Historical NIHHS Site | - |

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m **0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m **0**

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

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

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

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

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 29 >](#)

| ID | Location | Address | Details | |
|----|----------|--|--|---|
| B | 183m N | Fenay Bridge Service Station (Esso), Penistone Road, Fenay Bridge, Huddersfield, HD5 8RL | Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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



4.13 Licensed Discharges to controlled waters

Records within 500m
10

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 29 >](#)

| ID | Location | Address | Details | |
|----|----------|---|---|--|
| A | 100m NE | FENAYLANEC SO, FENAYLANE, FENAYBRIDGE, HUDDERSFIELD, WESTYORKSHIRE, HD80AR | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8434 Permit Version: 2 Receiving Water: FENAY BECK | Status: VARIED UNDER EPR 2010 Issue date: 15/11/2017 Effective Date: 15/11/2017 Revocation Date: - |
| A | 139m NE | FENAYBRIDGETANKCSO, OFF FENAYBRIDGELANE, FENAYBRIDGE, HUDDERSFIELD, WESTYORKSHIRE, HD80AR | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WA6132 Permit Version: 1 Receiving Water: FENAY BECK | Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 10/08/1990 Effective Date: 10/08/1990 Revocation Date: 17/03/2003 |
| A | 139m NE | FENAYBRIDGETANKCSO, OFF FENAYBRIDGELANE, FENAYBRIDGE, HUDDERSFIELD, WESTYORKSHIRE, HD80AR | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WA6132 Permit Version: 2 Receiving Water: FENAY BECK | Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2003 Effective Date: 18/03/2003 Revocation Date: 30/03/2022 |
| A | 140m NE | FENAYBRIDGETANKCSO, OFF FENAYBRIDGELANE, FENAYBRIDGE, HUDDERSFIELD, WESTYORKSHIRE, HD80AR | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WA6132 Permit Version: 3 Receiving Water: FENAY BECK | Status: VARIED UNDER EPR 2010 Issue date: 31/03/2022 Effective Date: 31/03/2022 Revocation Date: - |
| A | 164m NE | FENAYLANEC SO, FENAYLANE, FENAYBRIDGE, HUDDERSFIELD, WESTYORKSHIRE, HD80AR | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8434 Permit Version: 1 Receiving Water: FENAY BECK | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/02/2005 Effective Date: 31/03/2005 Revocation Date: 14/11/2017 |
| C | 332m N | HUDDERSFIELD AREAC SO, HUDDERSFIELD, NORTH YORKSHIRE | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 3 Receiving Water: VARIES WITH OUTLET | Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 25/01/1995 Effective Date: 25/01/1995 Revocation Date: 05/03/1995 |



| ID | Location | Address | Details | |
|----|----------|--|--|--|
| C | 332m N | HUDDERSFIELDAREACSOS,HUDE RSFIELD,NORTHYORKSHIRE | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 1 Receiving Water: VARIES WITH OUTLET | Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/05/1963 Effective Date: 27/05/1963 Revocation Date: 01/07/1993 |
| C | 332m N | HUDDERSFIELDAREACSOS,HUDE RSFIELD,NORTHYORKSHIRE | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 2 Receiving Water: VARIES WITH OUTLET | Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 02/07/1993 Effective Date: 02/07/1993 Revocation Date: 24/01/1995 |
| D | 417m N | ALMONDBURYCSO,SOUTHFIELDR OAD,HUDDERSFIELD,WESTYORKS HIRE,HD58RH | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8424 Permit Version: 2 Receiving Water: FENAY BECK | Status: VARIED UNDER EPR 2010 Issue date: 15/11/2017 Effective Date: 15/11/2017 Revocation Date: - |
| D | 419m N | ALMONDBURYCSO,SOUTHFIELDR OAD,HUDDERSFIELD,WESTYORKS HIRE,HD58RH | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8424 Permit Version: 1 Receiving Water: FENAY BECK | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/02/2005 Effective Date: 31/03/2005 Revocation Date: 14/11/2017 |

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

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.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

10

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 29 >](#)

| ID | Location | Details | |
|----|----------|---|---|
| A | 147m NE | Incident Date: 06/01/2017 Incident Identification: 1494123 Pollutant: Sewage Materials Pollutant Description: Crude Sewage | Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| A | 175m E | Incident Date: 19/11/2003 Incident Identification: 202317 Pollutant: Sewage Materials Pollutant Description: Crude Sewage | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| C | 336m N | Incident Date: 07/10/2001 Incident Identification: 35095 Pollutant: Sewage Materials Pollutant Description: Crude Sewage | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| 2 | 379m W | Incident Date: 04/08/2002 Incident Identification: 97351 Pollutant: Sewage Materials Pollutant Description: Storm Sewage | Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact) |

| ID | Location | Details | |
|----|----------|---|---|
| D | 427m N | Incident Date: 24/04/2003 Incident Identification: 153600 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| E | 478m N | Incident Date: 12/09/2002 Incident Identification: 107526 Pollutant: Oils and Fuel Pollutant Description: Diesel | Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| E | 480m N | Incident Date: 22/10/2002 Incident Identification: 116095 Pollutant: Other Pollutant Pollutant Description: Other | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| E | 487m N | Incident Date: 26/06/2001 Incident Identification: 11698 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| E | 491m N | Incident Date: 13/08/2002 Incident Identification: 99847 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |
| E | 492m N | Incident Date: 01/10/2002 Incident Identification: 111771 Pollutant: Oils and Fuel Pollutant Description: Diesel | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |

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

4.19 Pollution inventory substances

Records within 500m

0

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

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



4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

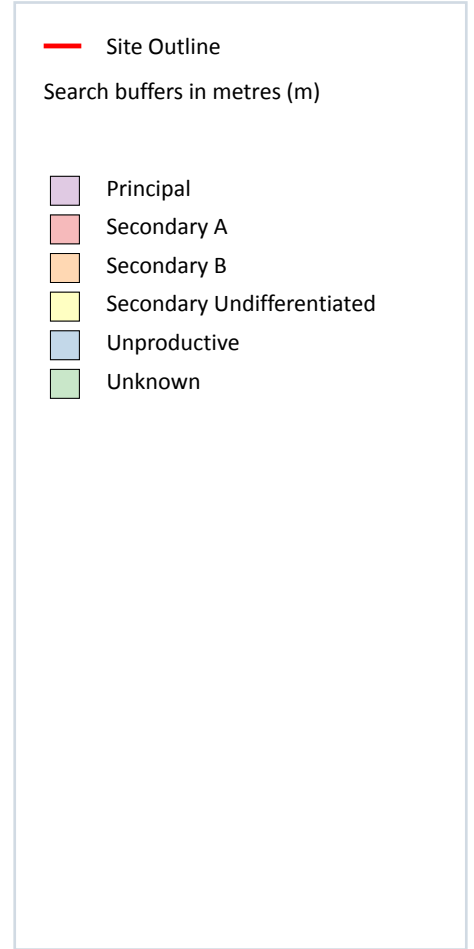
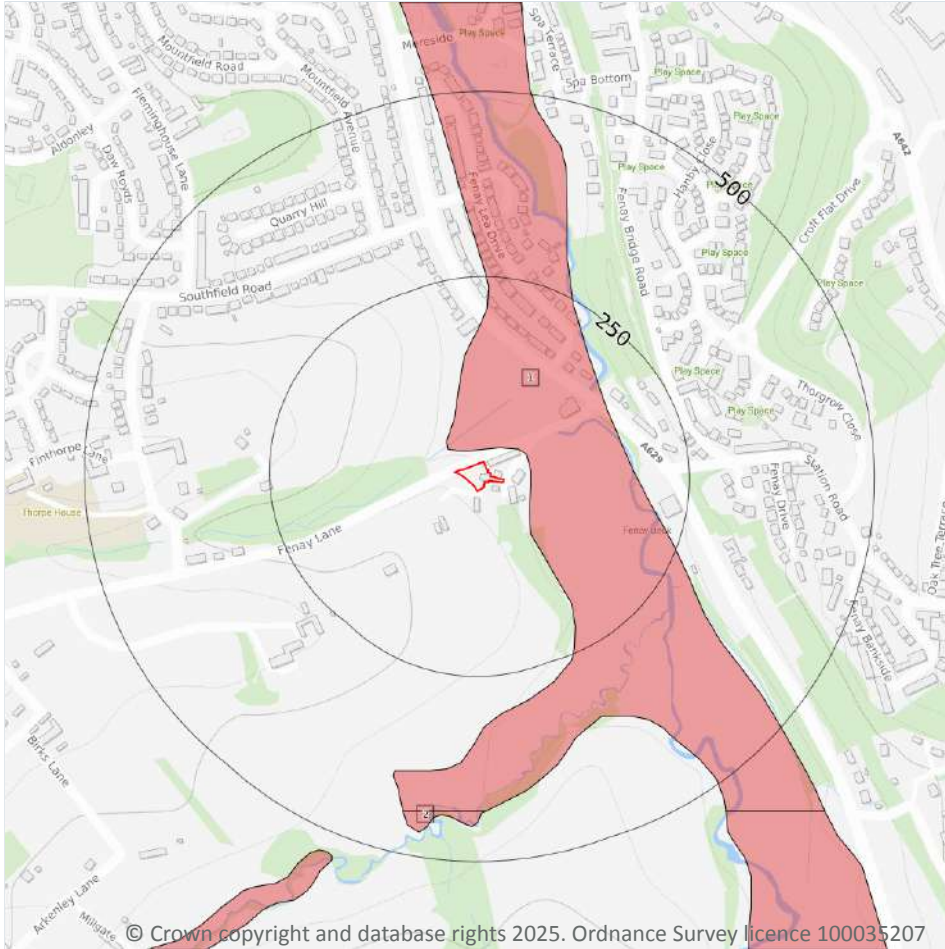
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

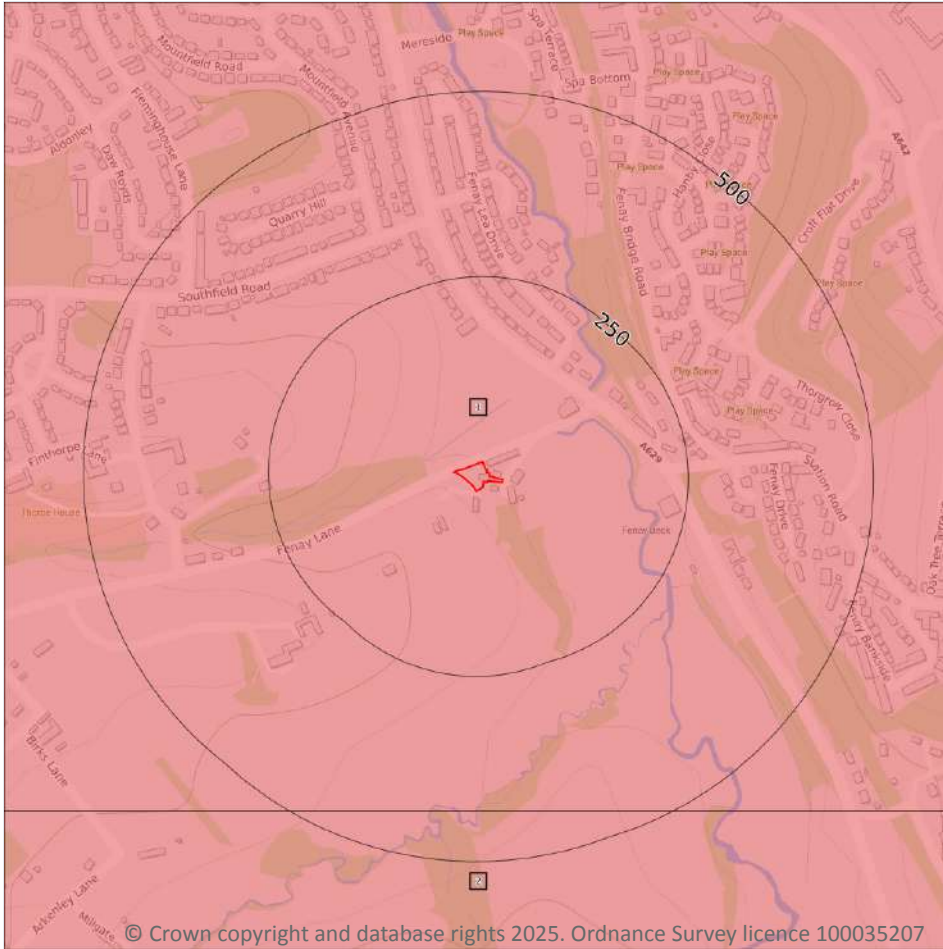
Features are displayed on the Hydrogeology map on [page 38](#) >

| ID | Location | Designation | Description |
|----|----------|-------------|--|
| 1 | 17m 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 |
| 2 | 432m 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 |

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 40](#) >

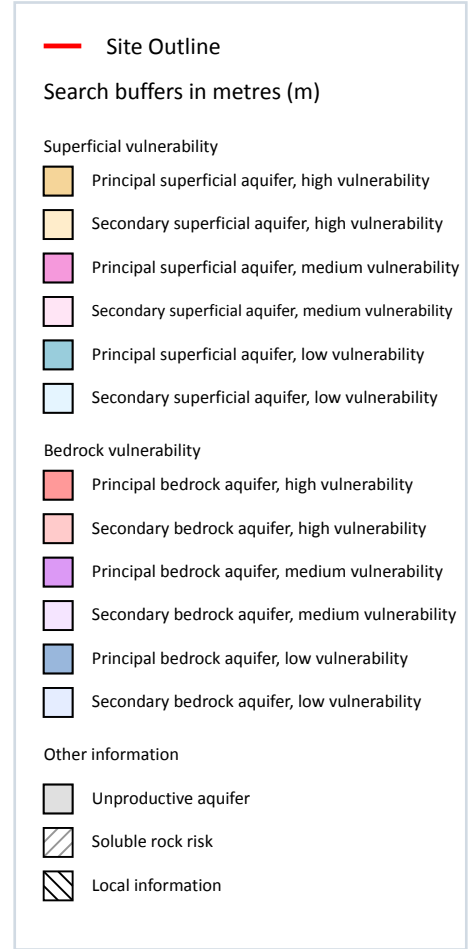
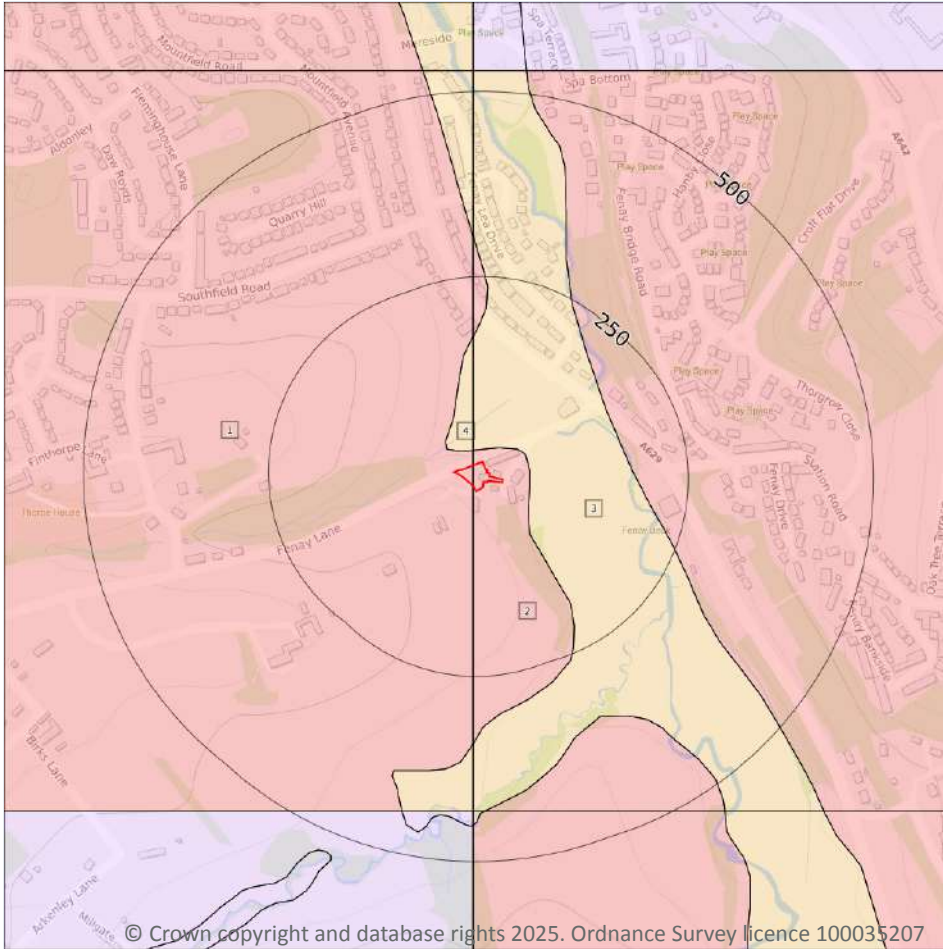
| ID | Location | Designation | Description |
|----|----------|-------------|---|
| 1 | On site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2 | 432m 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 |



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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

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 42 >](#)

| 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: 300-550mm/year | Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data | Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 2 | 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: 300-550mm/year | Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data | Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 3 | 17m N | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/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 |
| 4 | 19m N | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/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

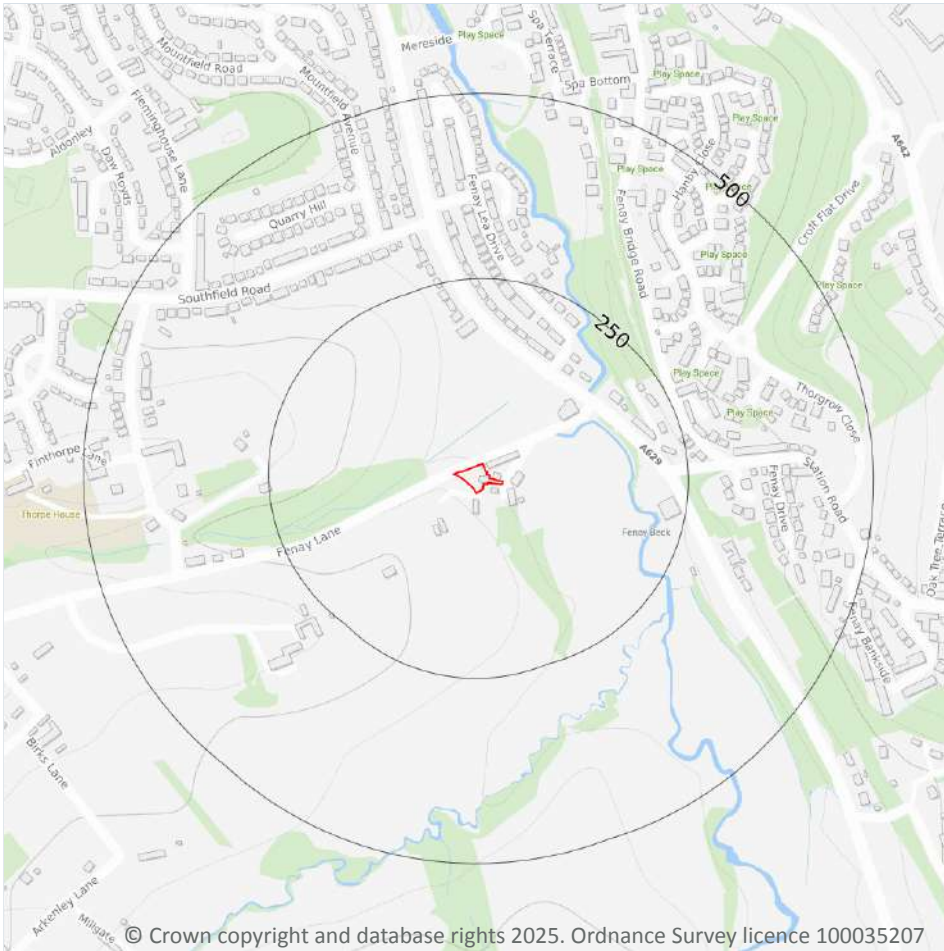
This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 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



5.6 Groundwater abstractions

Records within 2000m

10

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 45 >](#)

| ID | Location | Details | |
|----|----------|--|---|
| - | 912m N | Status: Historical Licence No: 2/27/11/188/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - HUDDERSFIELD Data Type: Point Name: Total Fitness Health Clubs Ltd Easting: 417876 Northing: 416373 | Annual Volume (m ³): 31000 Max Daily Volume (m ³): 250 Original Application No: NPS/WR/018037 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: - |
| - | 918m N | Status: Historical Licence No: 2/27/11/188 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - HUDDERSFIELD Data Type: Point Name: Total Fitness 2010 Ltd Easting: 417880 Northing: 416380 | Annual Volume (m ³): 60000 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 16/07/2001 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 08/02/2012 Version End Date: - |
| - | 1117m S | Status: Active Licence No: NE/027/0011/029 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE IN SANDSTONE AT WOODSOME HALL Data Type: Point Name: WOODSOME HALL GOLF CLUB LTD Easting: 418356 Northing: 414372 | Annual Volume (m ³): 9400 Max Daily Volume (m ³): 63 Original Application No: NPS/WR/032376 Original Start Date: 15/10/2020 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 15/10/2020 Version End Date: - |
| - | 1374m SE | Status: Historical Licence No: 2/27/11/077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: SPRINGWOOD ENGINEERING CO LTD Easting: 418800 Northing: 414300 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/12/1981 Version End Date: - |



| ID | Location | Details | |
|----|----------|--|---|
| - | 1374m SE | Status: Historical Licence No: 2/27/11/077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR CO LTD Easting: 418800 Northing: 414300 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 03/07/2001 Version End Date: - |
| - | 1393m SE | Status: Active Licence No: 2/27/11/077 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418848 Northing: 414310 | Annual Volume (m ³): 85000 Max Daily Volume (m ³): 1200 Original Application No: NPS/WR/016706 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 13/10/2014 Version End Date: - |
| - | 1393m SE | Status: Active Licence No: 2/27/11/077 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418848 Northing: 414310 | Annual Volume (m ³): 85000 Max Daily Volume (m ³): 1200 Original Application No: NPS/WR/016706 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 13/10/2014 Version End Date: - |
| - | 1394m SE | Status: Historical Licence No: 2/27/11/077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418850 Northing: 414310 | Annual Volume (m ³): 59099 Max Daily Volume (m ³): 286.4 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 20/04/2005 Version End Date: - |
| - | 1394m SE | Status: Historical Licence No: 2/27/11/077 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418850 Northing: 414310 | Annual Volume (m ³): 360000 Max Daily Volume (m ³): 1200 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/06/2006 Version End Date: - |



| ID | Location | Details | |
|----|----------|---|--|
| - | 1394m SE | Status: Historical Licence No: 2/27/11/077 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418850 Northing: 414310 | Annual Volume (m ³): 360000 Max Daily Volume (m ³): 1200 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/06/2006 Version End Date: - |

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

5.7 Surface water abstractions

Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 45 >](#)

| ID | Location | Details | |
|----|----------|--|--|
| - | 1137m S | Status: Historical Licence No: 2/27/11/156 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: POND - WOODSOME HALL Data Type: Point Name: WOODSOME HALL GOLF CLUB LTD Easting: 417900 Northing: 414300 | Annual Volume (m ³): 6819 Max Daily Volume (m ³): 40.91 Original Application No: - Original Start Date: 16/12/1970 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1970 Version End Date: - |
| - | 1142m S | Status: Active Licence No: 2/27/11/156 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: POND - WOODSOME HALL Data Type: Point Name: WOODSOME HALL GOLF CLUB LTD Easting: 418010 Northing: 414290 | Annual Volume (m ³): 2250 Max Daily Volume (m ³): 41 Original Application No: NPS/WR/034012 Original Start Date: 16/12/1970 Expiry Date: - Issue No: 101 Version Start Date: 13/10/2020 Version End Date: - |



| ID | Location | Details | |
|----|----------|--|--|
| - | 1687m SE | Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK-FENAY BRIDGE-HUDDERSFIELD Data Type: Point Name: MALLINSON Easting: 419190 Northing: 414210 | Annual Volume (m ³): 7728 Max Daily Volume (m ³): 254.58 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 20/06/2004 Version End Date: - |
| - | 1701m SE | Status: Historical Licence No: 2/27/11/078 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: BELDON BROOK Data Type: Point Name: SPRINGWOOD ENGINEERING CO LTD Easting: 419200 Northing: 414200 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/06/1980 Version End Date: - |
| - | 1701m SE | Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR COMPANY LIMITED Easting: 419200 Northing: 414200 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/06/2002 Version End Date: - |
| - | 1701m SE | Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR CO LTD Easting: 419200 Northing: 414200 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/06/2002 Version End Date: - |
| - | 1755m S | Status: Historical Licence No: 2/27/11/174 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: WOODSOME BECK Data Type: Point Name: KIRKLEES METROPOLITAN COUNCIL & KIRKLEES COUNTRYSIDE UNIT Easting: 418680 Northing: 413810 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/07/1994 Expiry Date: - Issue No: 100 Version Start Date: 14/07/1994 Version End Date: - |



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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

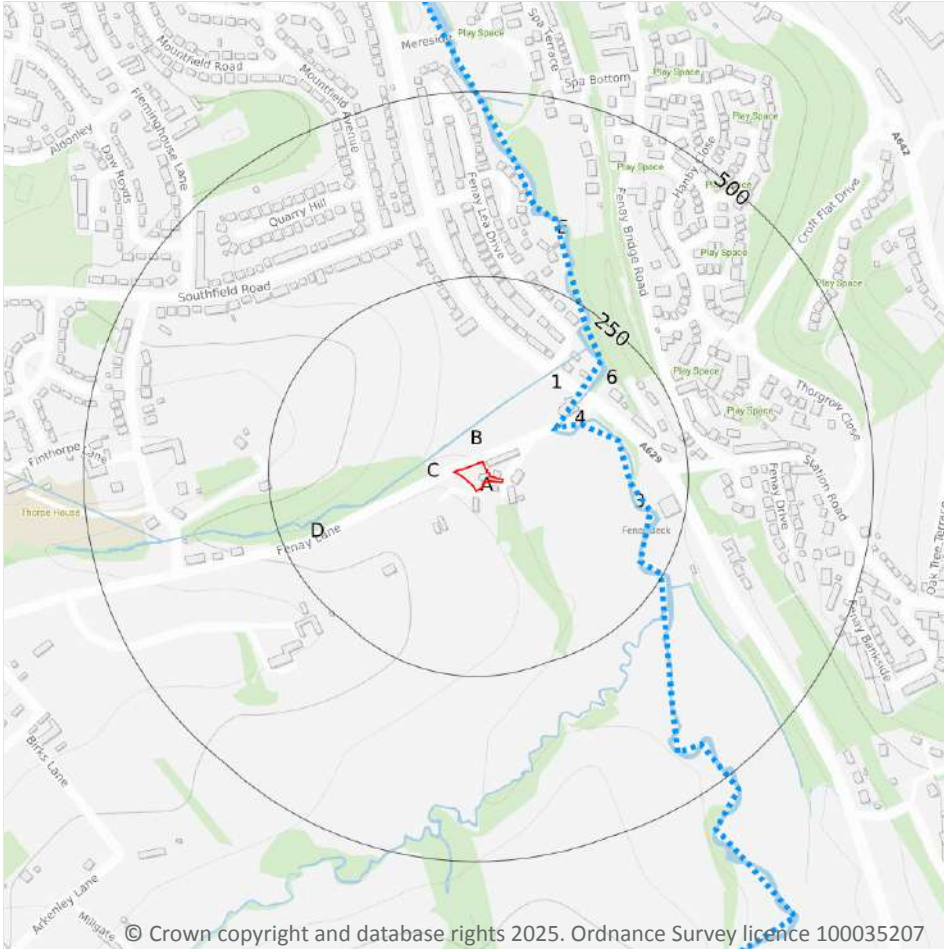
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

10

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 51](#) >

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|-------------------|---|------|
| B | 35m NW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |



| ID | Location | Type of water feature | Ground level | Permanence | Name |
|----|----------|---|-------------------|---|------------|
| C | 39m W | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| C | 45m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| C | 46m W | Marsh. An area that is predominantly waterlogged by freshwater. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| D | 58m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 1 | 91m NE | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| 3 | 97m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Fenay Beck |
| 4 | 98m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Fenay Beck |
| 6 | 167m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Fenay Beck |
| E | 210m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Fenay Beck |

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

4

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 51 >](#)

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 51](#) >

| ID | Location | Type | Water body catchment | Water body ID | Operational catchment | Management catchment |
|----|----------|-------|---------------------------------------|----------------|-----------------------|----------------------|
| A | On site | River | Fenay beck from Source to River Colne | GB104027063340 | 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 51](#) >

| ID | Location | Type | Name | Water body ID | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|---------------------------------------|----------------------------------|----------------|-----------------|-------------------|------|
| 5 | 101m NE | River | Fenay beck from Source to River Colne | GB104027063340 ↗ | 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 |
|------------------------|----------|

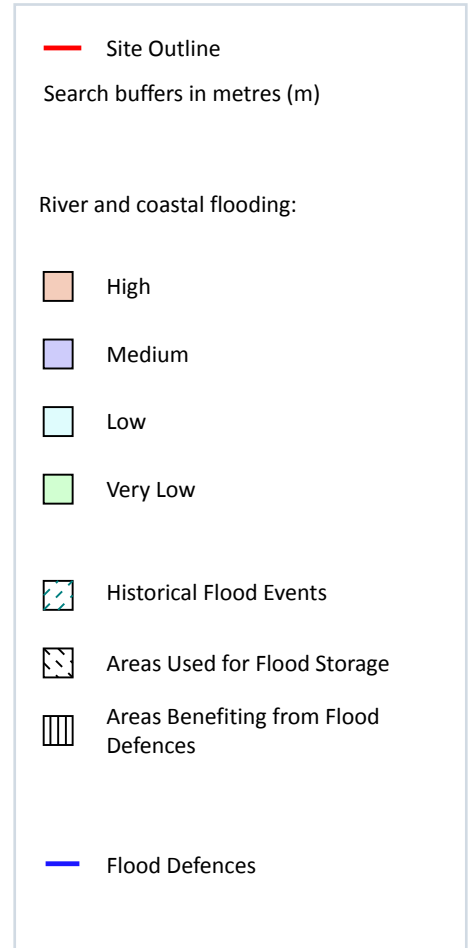
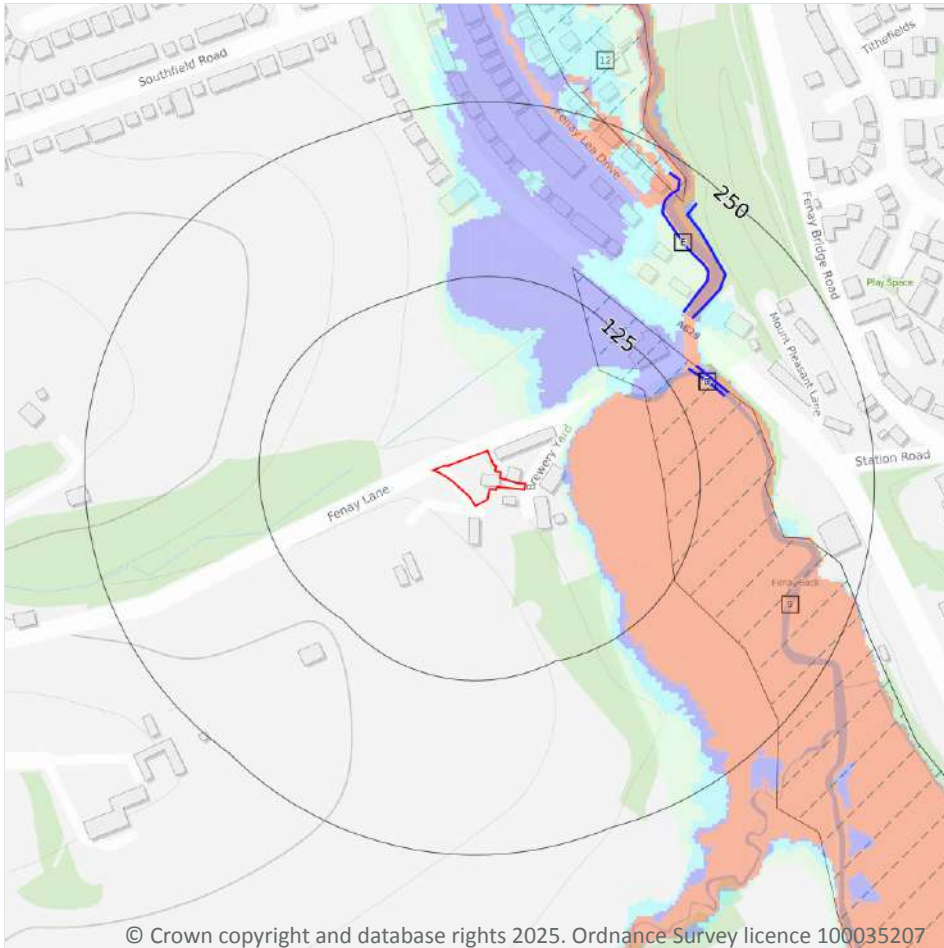
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 51](#) >

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

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

7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

8

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 55 >](#)

| Distance | Flood risk category |
|----------------|---------------------|
| On site | N/A |
| 0 - 50m | High |

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

7.2 Historical Flood Events

| Records within 250m | 2 |
|---------------------|---|
|---------------------|---|

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

Features are displayed on the River and coastal flooding map on [page 55 >](#)

| ID | Location | Event name | Date of flood | Flood source | Flood cause | Type of flood |
|----|----------|------------------|--------------------------|--------------|--|---------------|
| 9 | 97m E | 123 April1970 | 1970-04-13 1970-04-13 | Main river | Channel capacity exceeded (no raised defences) | Fluvial |
| 12 | 227m NE | 123 April1970 | 1970-04-13 1970-04-13 | Main river | Channel capacity exceeded (no raised defences) | Fluvial |

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

7.3 Flood Defences

| Records within 250m | 4 |
|---------------------|---|
|---------------------|---|

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

Features are displayed on the River and coastal flooding map on [page 55 >](#)

| ID | Location | Update |
|----|----------|------------|
| D | 143m NE | 08/11/2022 |
| D | 149m NE | 08/11/2022 |
| E | 167m NE | 08/11/2022 |
| E | 168m NE | 08/11/2022 |



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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



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.

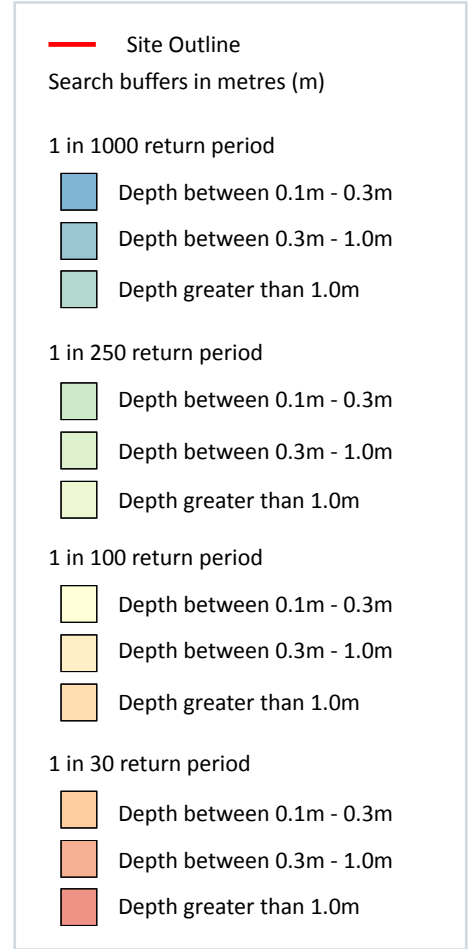
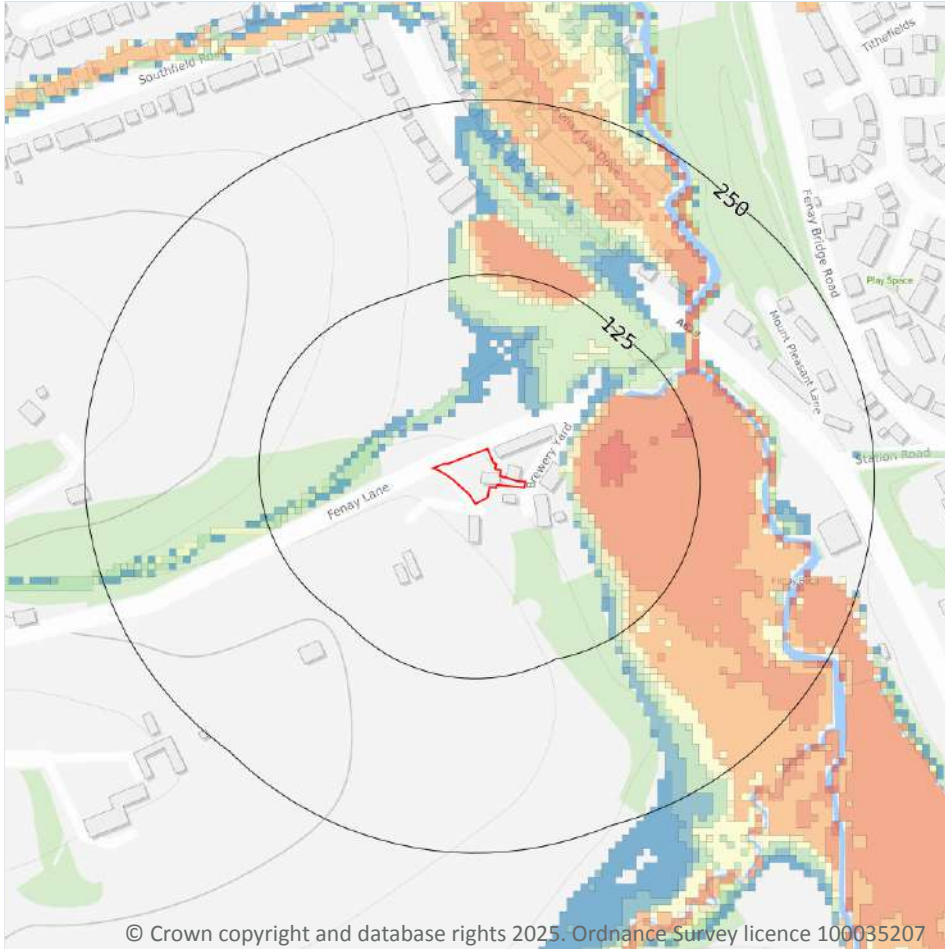
Features are displayed on the River and coastal flooding map on [page 55 >](#)

| Location | Type |
|----------|----------------------------------|
| 25m E | Zone 3 - (Fluvial /Tidal Models) |

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.3m - 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 60](#) >

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

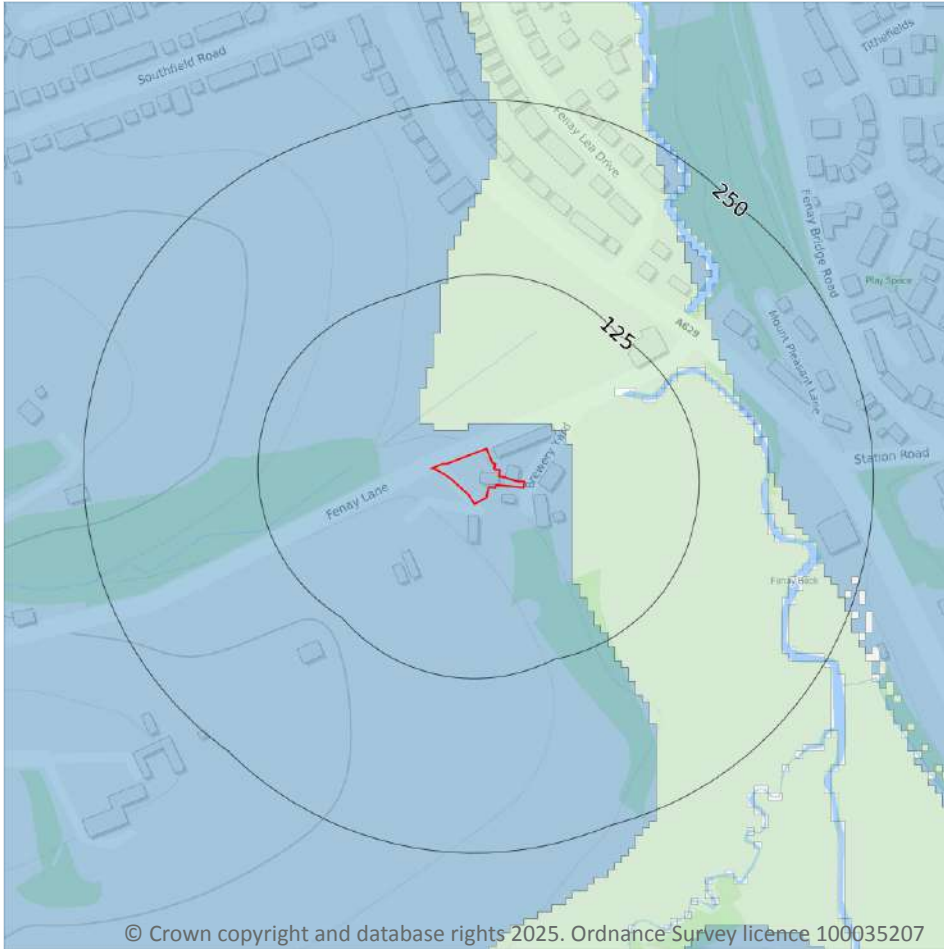
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

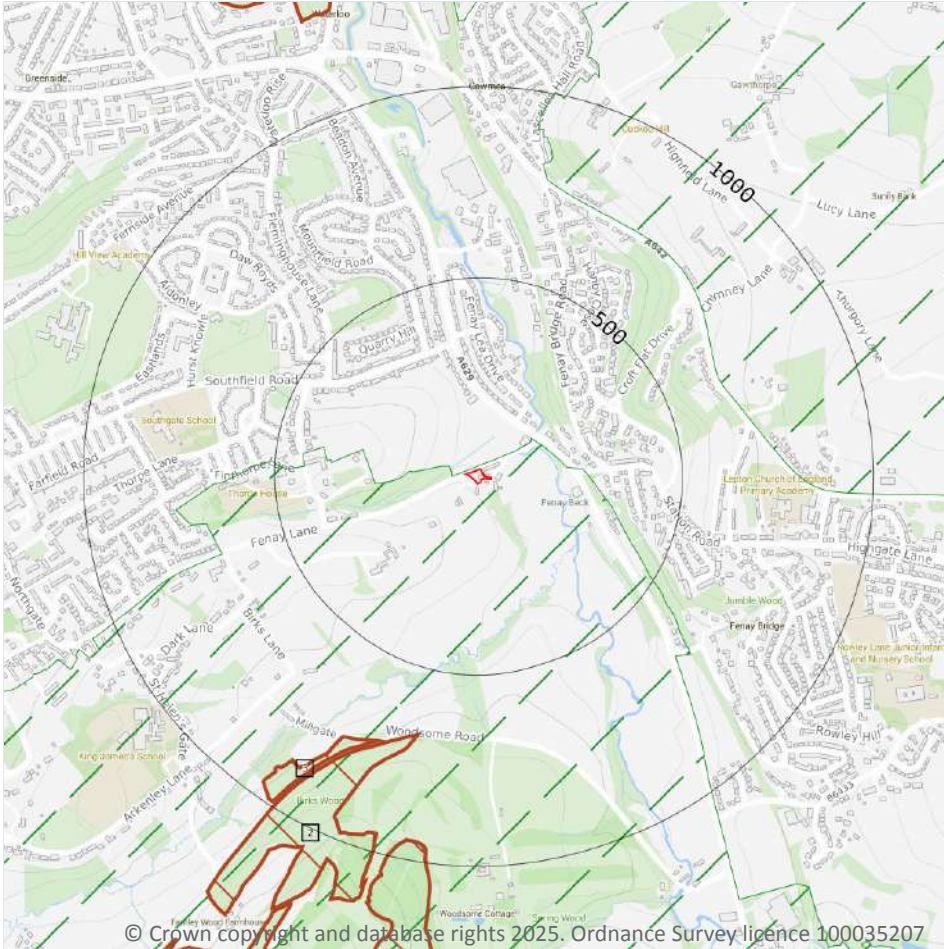
Low

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 62 >](#)

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

11

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

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

| ID | Location | Name | Woodland Type |
|----|----------|-----------------------------------|---------------------------------|
| 2 | 673m S | Carr Wood | Ancient & Semi-Natural Woodland |
| 3 | 721m S | Carr Wood | Ancient & Semi-Natural Woodland |
| 4 | 949m S | Carr Wood | Ancient & Semi-Natural Woodland |
| 5 | 1201m SW | Carr Wood | Ancient & Semi-Natural Woodland |
| 6 | 1259m N | Round Wood | Ancient & Semi-Natural Woodland |
| 7 | 1428m SW | Carr Wood | Ancient & Semi-Natural Woodland |
| - | 1468m SE | Lepton Great Wood | Ancient & Semi-Natural Woodland |
| - | 1570m W | Benholmley Wood | Ancient Replanted Woodland |
| - | 1835m W | Benholmley Wood | Ancient Replanted Woodland |
| - | 1921m SW | Carr Wood | Ancient & Semi-Natural Woodland |
| - | 1959m SW | Farnley Bank And Stock Dove Woods | 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 63](#) >

| 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

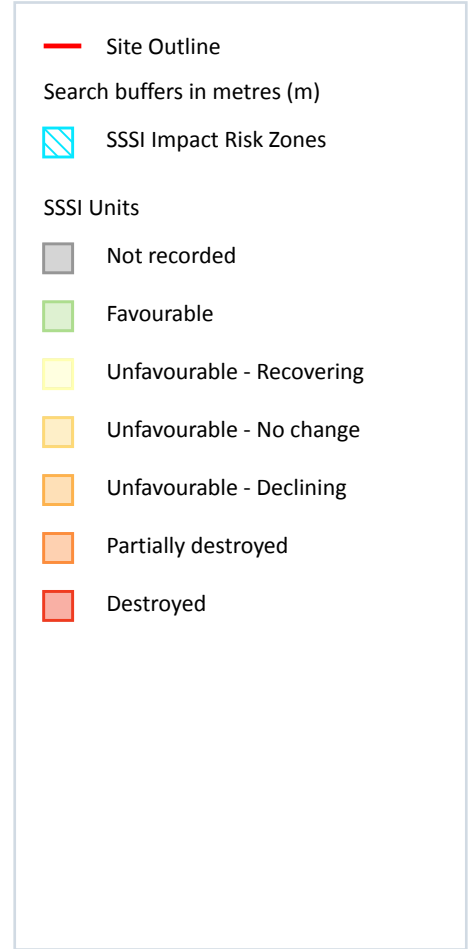
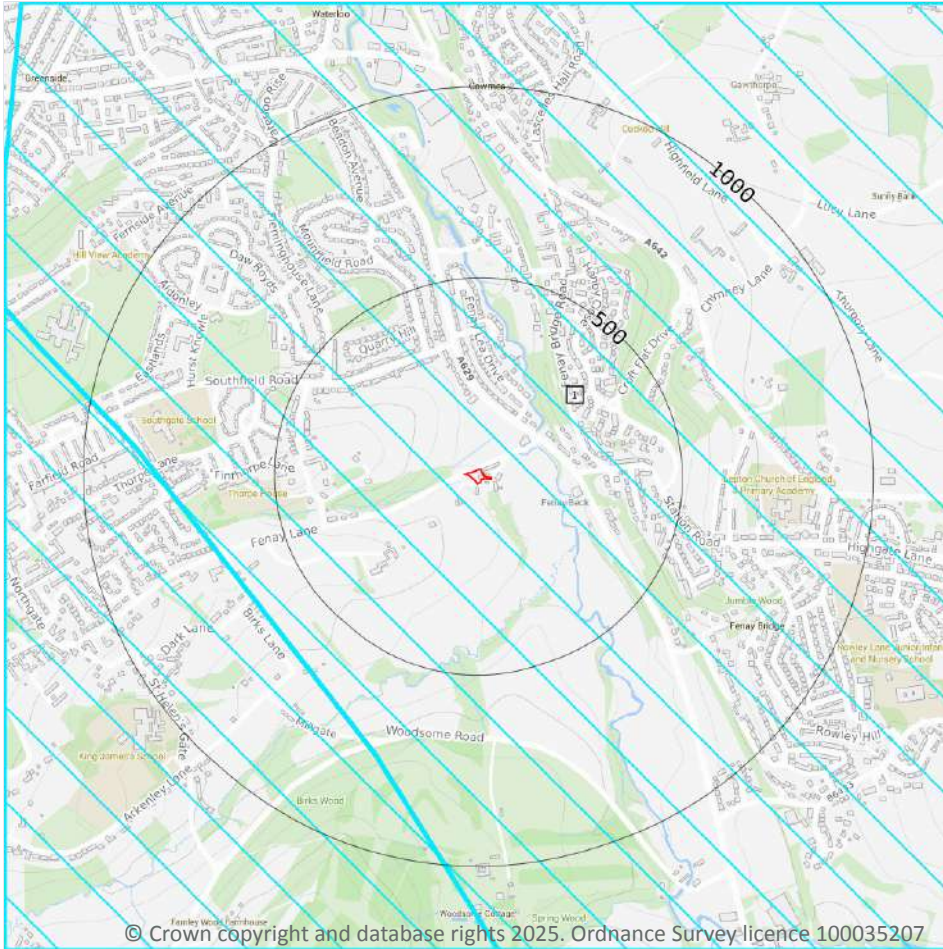
0

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



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 69](#) >

| ID | Location | Type of developments requiring consultation |
|----|----------|--|
| 1 | On site | Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. |

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

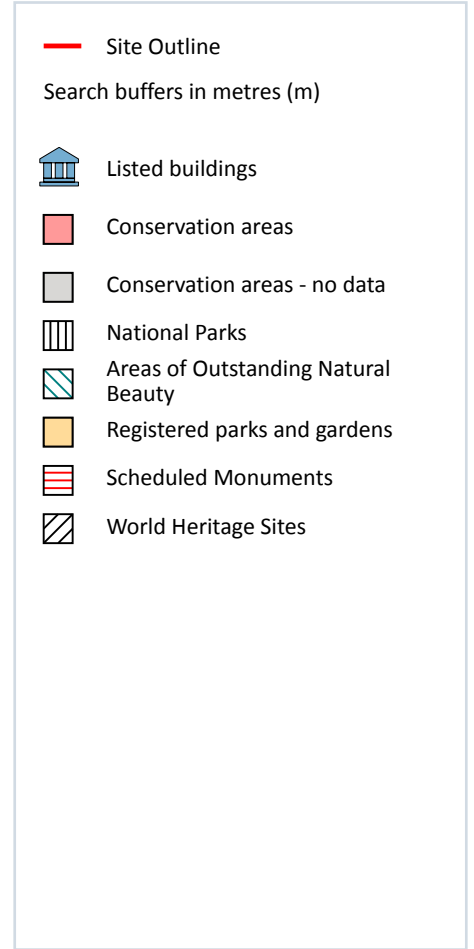
0

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

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



11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 71 >](#)

| ID | Location | Name | Grade | Reference Number | Listed date |
|----|----------|------------------------|-------|------------------|-------------|
| 1 | 14m S | Fenny Bridge Nurseries | II | 1212107 | 29/09/1978 |

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



11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

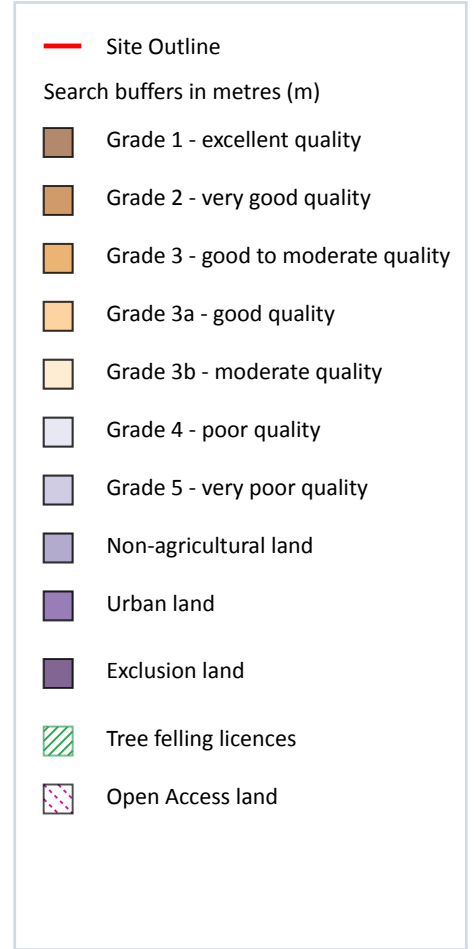
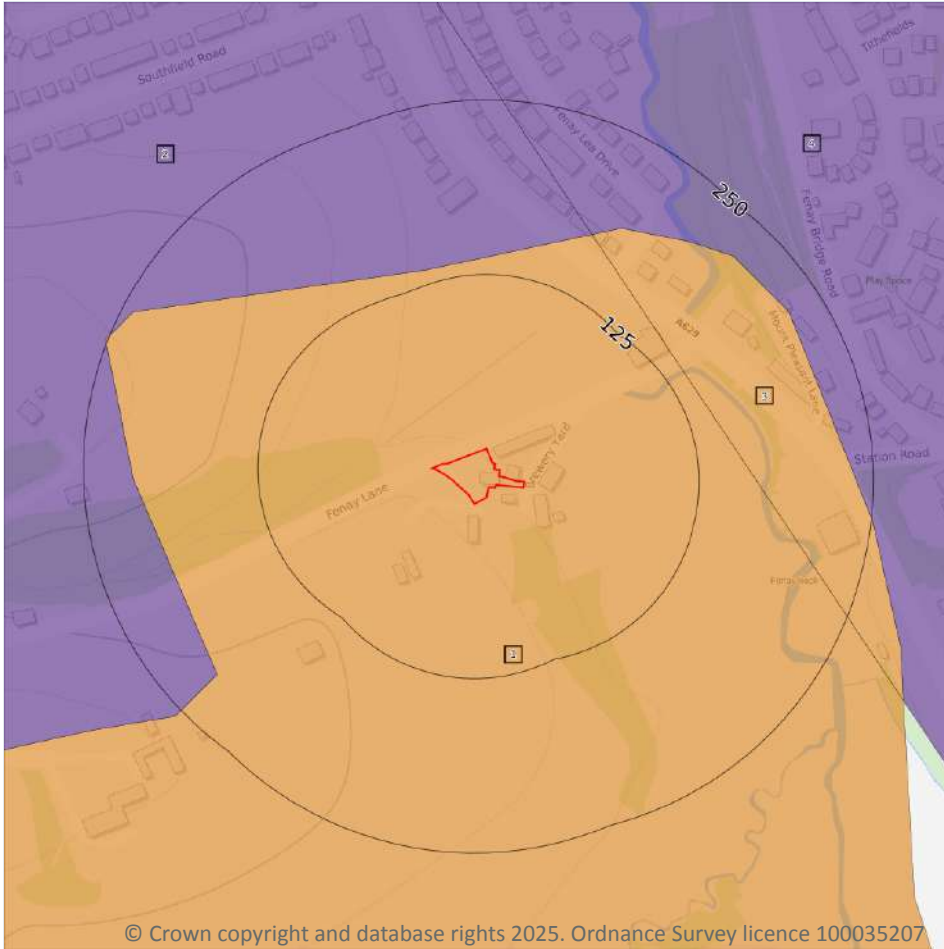
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

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 74](#) >

| ID | Location | Classification | Description |
|----|----------|----------------|---|
| 1 | On site | Grade 3 | Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2. |
| 2 | 134m N | Urban | Non-agricultural/no quality assigned |

| ID | Location | Classification | Description |
|----|----------|----------------|---|
| 3 | 139m NE | Grade 3 | Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2. |
| 4 | 171m NE | Urban | Non-agricultural/no quality assigned |

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

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 |
|----------|------------|---|------------|------------|
| 210m E | AG00418023 | Entry Level plus Higher Level Stewardship | 01/12/2012 | 30/11/2022 |
| 211m E | AG00418023 | Entry Level plus Higher Level Stewardship | 01/12/2012 | 30/11/2022 |

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m**2**

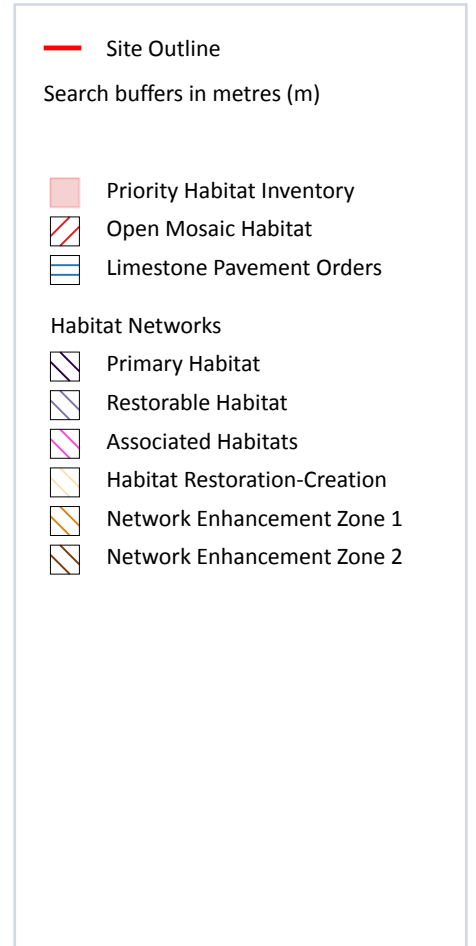
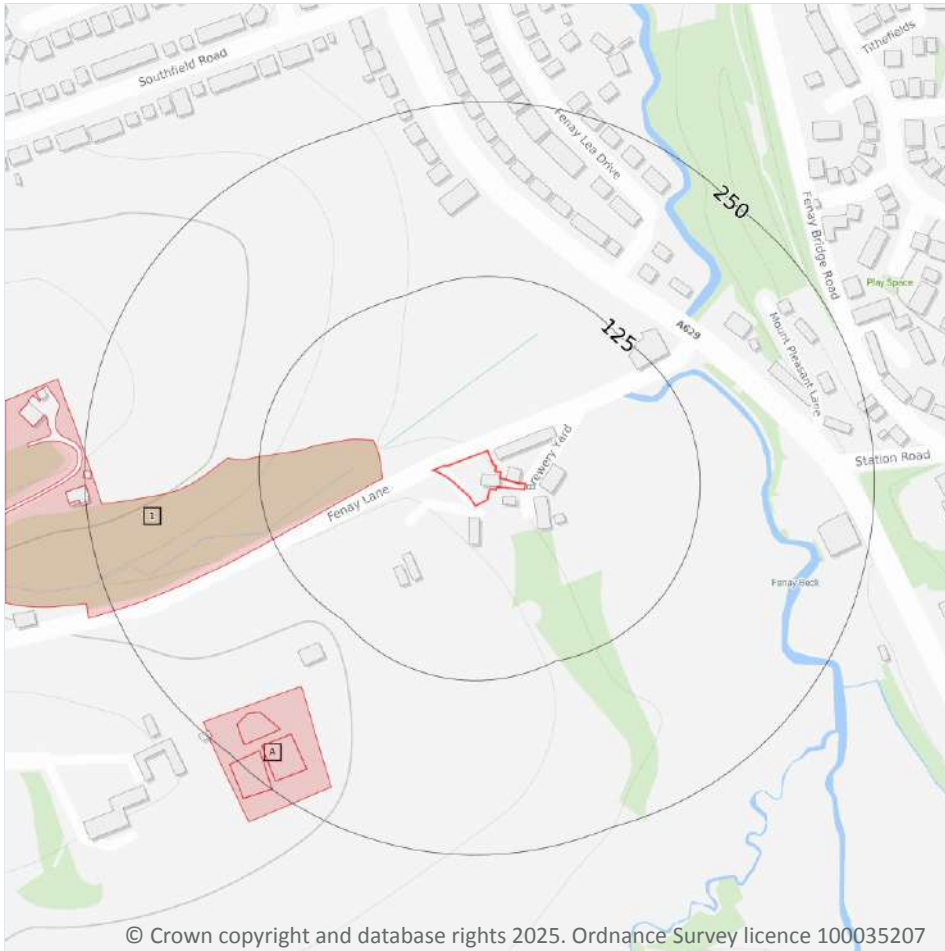
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

| Location | Reference | Scheme | Start Date | End Date |
|----------|-----------|---------------------------------------|------------|------------|
| 27m E | 1062476 | Countryside Stewardship (Middle Tier) | 01/01/2021 | 31/12/2025 |
| 131m SW | 1062476 | Countryside Stewardship (Middle Tier) | 01/01/2021 | 31/12/2025 |

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

5

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 77 >](#)

| ID | Location | Main Habitat | Other habitats |
|----|----------|---|---|
| 1 | 37m W | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| A | 180m SW | No main habitat but additional habitats present | Additional: TORCH (INV 50%) |
| A | 210m SW | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| A | 212m SW | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |

| ID | Location | Main Habitat | Other habitats |
|----|----------|---------------------|---|
| A | 234m SW | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |

This data is sourced from Natural England.

13.2 Habitat Networks

| | |
|----------------------------|----------|
| Records within 250m | 0 |
|----------------------------|----------|

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

| | |
|----------------------------|----------|
| Records within 250m | 0 |
|----------------------------|----------|

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

This data is sourced from Natural England.

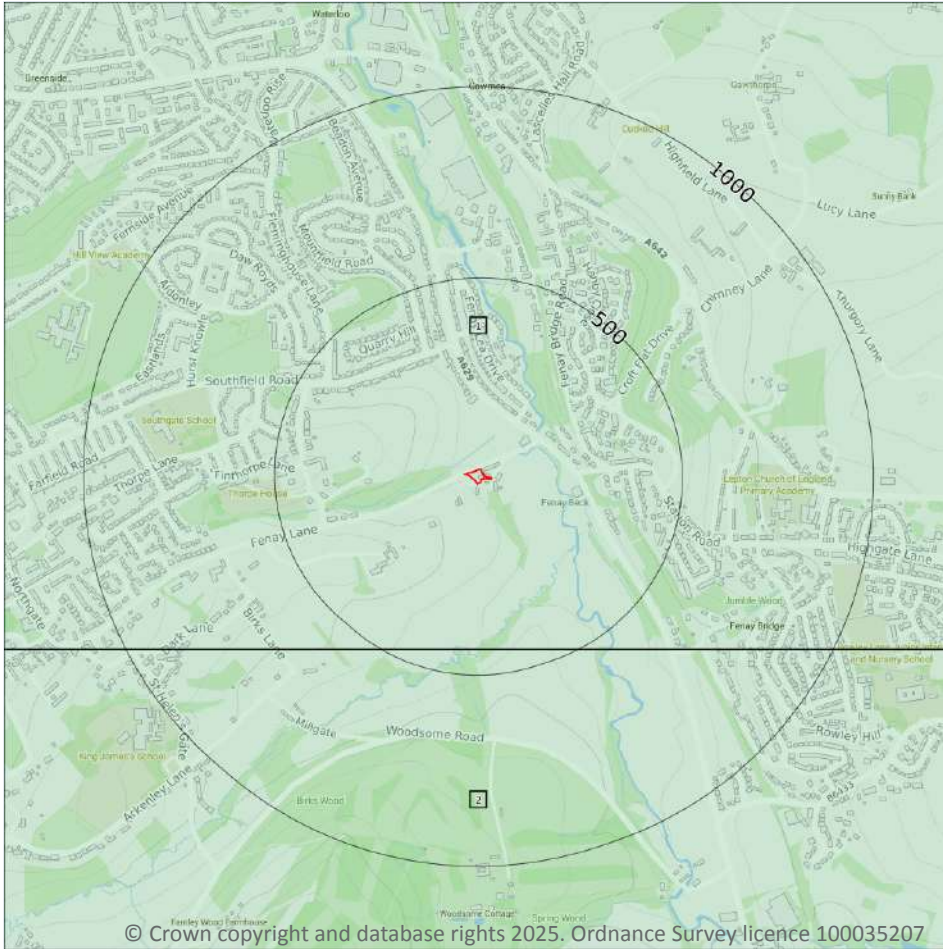
13.4 Limestone Pavement Orders

| | |
|----------------------------|----------|
| Records within 250m | 0 |
|----------------------------|----------|

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

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

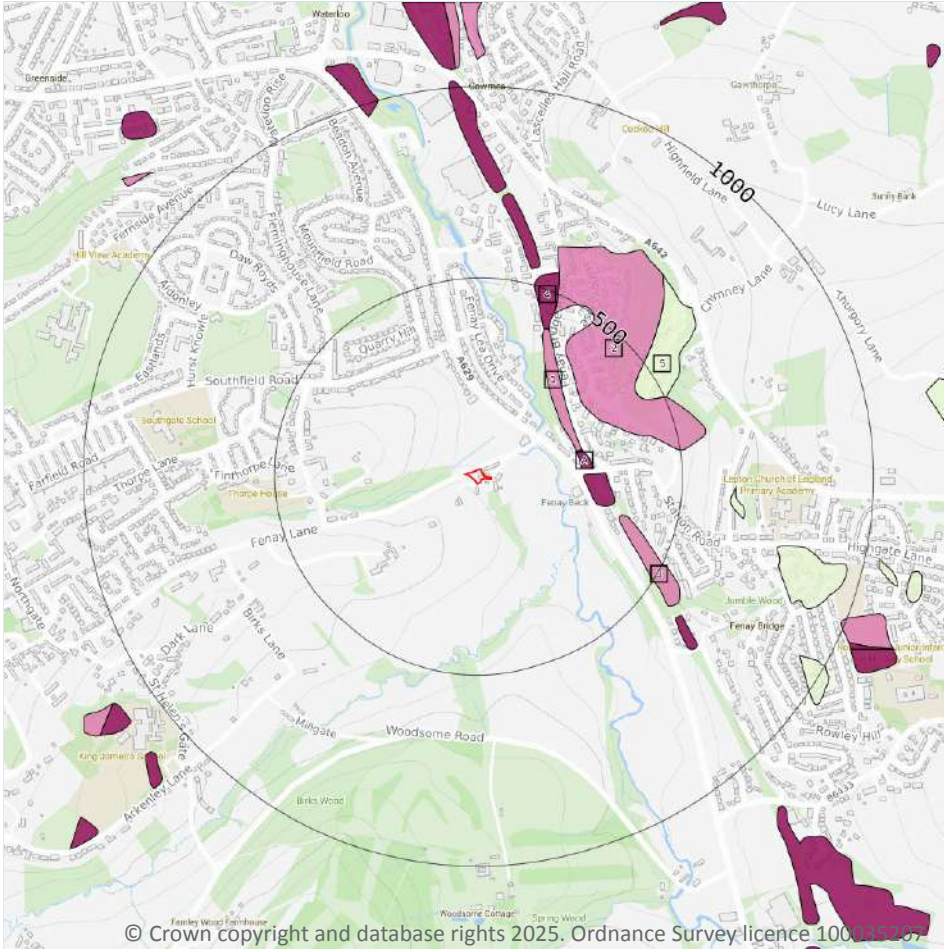
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 79](#) >

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------|
| 1 | On site | Full | Full | Full | Full | SE11NE |
| 2 | 432m S | Full | Full | Full | Full | SE11SE |

This data is sourced from the British Geological Survey.



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



14.2 Artificial and made ground (10k)

Records within 500m

7

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

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

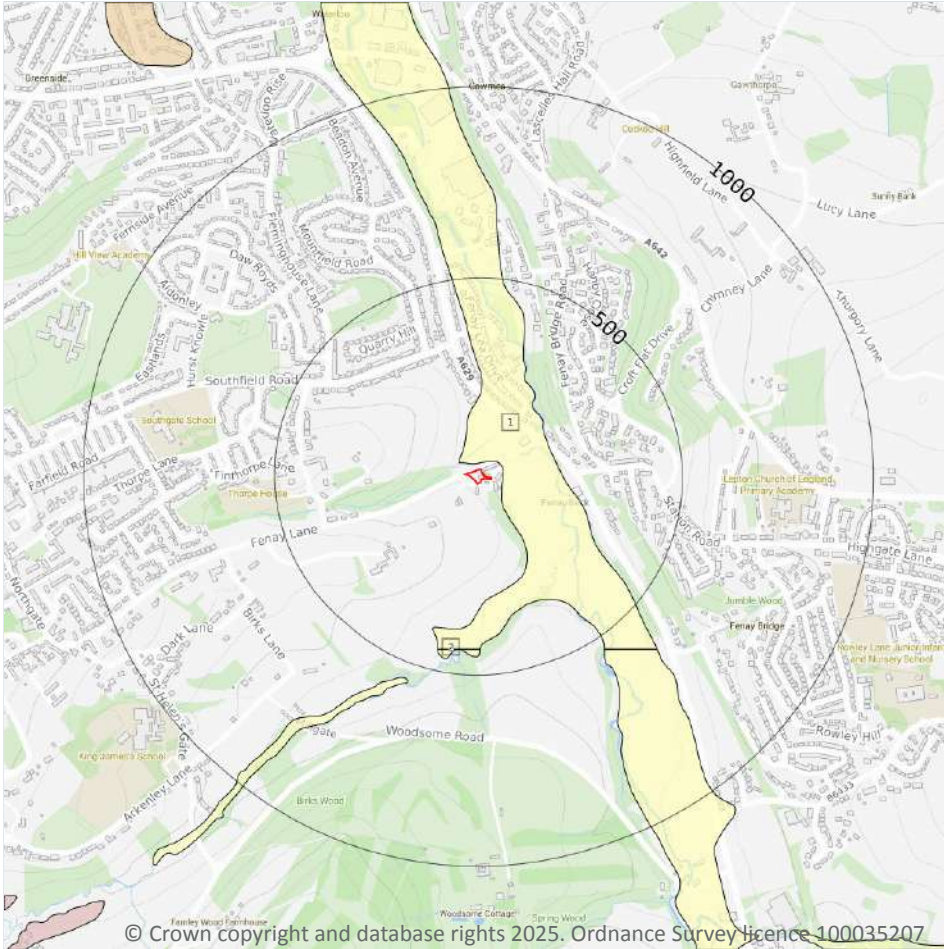
| ID | Location | LEX Code | Description | Rock description |
|----|----------|-----------|---------------------------|--------------------|
| 1 | 229m NE | WGR-VOID | Worked Ground (Undivided) | Void |
| A | 234m E | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| A | 242m E | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 2 | 308m NE | WGR-VOID | Worked Ground (Undivided) | Void |

| ID | Location | LEX Code | Description | Rock description |
|----|----------|------------|---------------------------|--------------------|
| 3 | 350m E | WGR-VOID | Worked Ground (Undivided) | Void |
| 4 | 403m NE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 5 | 440m NE | 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

2

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

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

| ID | Location | LEX Code | Description | Rock description |
|----|----------|----------|----------------------------------|-----------------------|
| 1 | 16m N | ALV-XCSV | Alluvium - Clay, Sand And Gravel | Clay, Sand And Gravel |
| 2 | 432m S | ALV-XCSV | Alluvium - Clay, Sand And Gravel | Clay, Sand And Gravel |

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

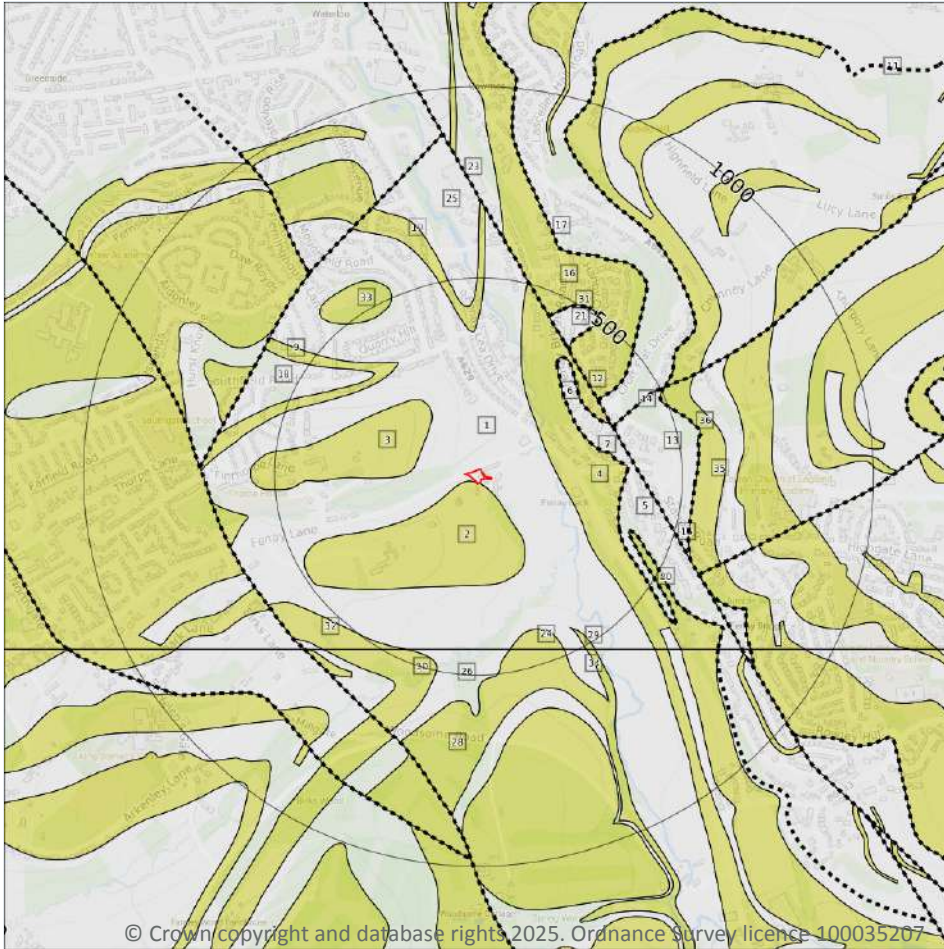
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- 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

22

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

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

| ID | Location | LEX Code | Description | Rock age |
|----|----------|-----------|---|---------------------|
| 1 | On site | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 2 | On site | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 3 | 131m W | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |

| ID | Location | LEX Code | Description | Rock age |
|----|----------|-----------|---|---------------------|
| 4 | 160m E | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 5 | 263m NE | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 9 | 329m NW | GM-SDST | Greenmoor Rock - Sandstone | Langsettian Sub-age |
| 11 | 343m NE | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 13 | 345m E | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 16 | 346m NE | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 18 | 354m NW | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 19 | 360m N | GM-SDST | Greenmoor Rock - Sandstone | Langsettian Sub-age |
| 21 | 386m NE | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 24 | 407m S | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 25 | 426m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 26 | 432m S | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 28 | 441m S | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 29 | 441m SE | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 30 | 467m S | GM-SDST | Greenmoor Rock - Sandstone | Langsettian Sub-age |
| 32 | 471m SW | GM-SDST | Greenmoor Rock - Sandstone | Langsettian Sub-age |
| 33 | 473m NW | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 34 | 483m SE | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 35 | 488m NE | KKBS-SDST | Kirkburton Sandstone - Sandstone | Langsettian Sub-age |

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

14

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

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

| ID | Location | Category | Description |
|----|----------|----------|---|
| 6 | 263m NE | ROCK | Coal seam, inferred |
| 7 | 263m NE | ROCK | Coal seam, observed |
| 8 | 308m NE | ROCK | Coal seam, observed |
| 10 | 341m E | ROCK | Coal seam, inferred |
| 12 | 343m NE | FAULT | Normal fault, observed; crossmark on downthrow side |
| 14 | 345m E | FAULT | Normal fault, observed; downthrow not specified |
| 15 | 345m E | FAULT | Normal fault, inferred; downthrow not specified |
| 17 | 346m NE | ROCK | Coal seam, inferred |
| 20 | 360m E | ROCK | Coal seam, observed |
| 22 | 386m NE | ROCK | Coal seam, observed |
| 23 | 396m NE | FAULT | Normal fault, inferred; downthrow not specified |
| 27 | 437m NE | ROCK | Coal seam, observed |
| 31 | 469m NE | ROCK | Coal seam, inferred |
| 36 | 488m NE | ROCK | Coal seam, observed |

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

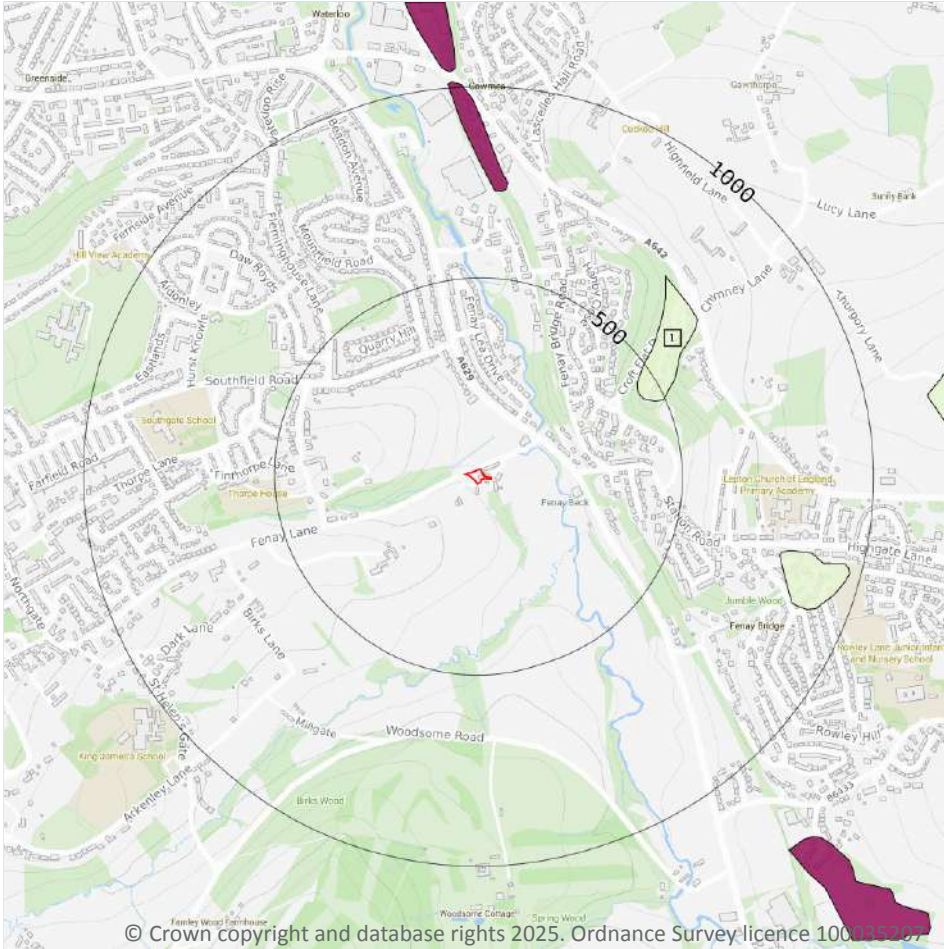
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 87](#) >

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------------------|
| 1 | On site | 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



15.2 Artificial and made ground (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 88 >](#)

| ID | Location | LEX Code | Description | Rock description |
|----|----------|------------|-----------------|--------------------|
| 1 | 445m NE | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

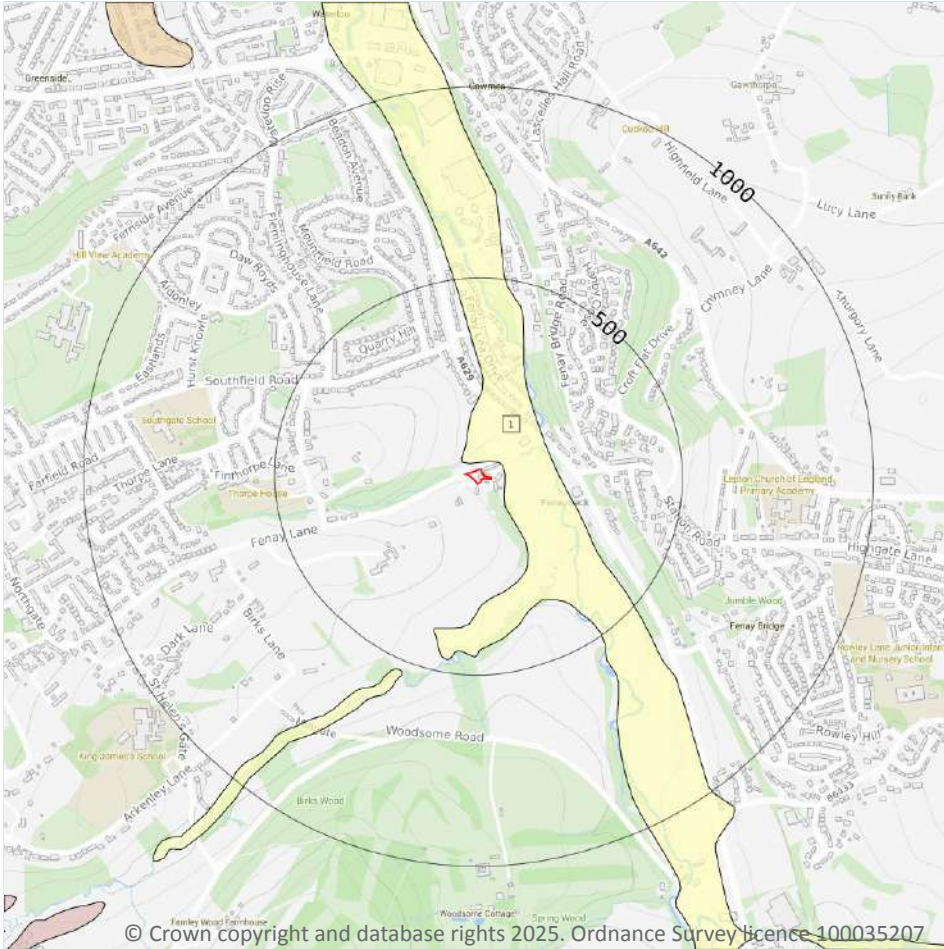
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 90 >](#)

| ID | Location | LEX Code | Description | Rock description |
|----|----------|-----------|-------------|-----------------------------|
| 1 | 17m N | 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 |
|----------|---------------|----------------------|----------------------|
| 17m N | Intergranular | High | Very Low |

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

| | |
|----------------------------|----------|
| Records within 500m | 0 |
|----------------------------|----------|

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

This data is sourced from the British Geological Survey.

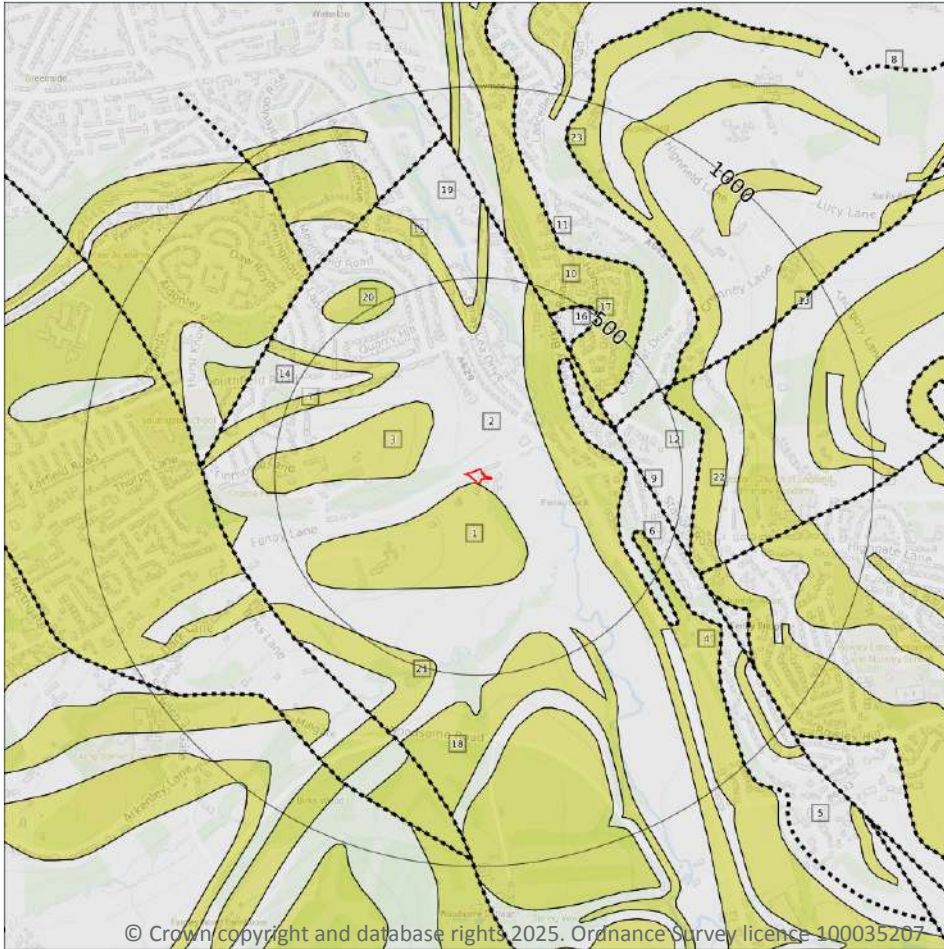
15.7 Landslip permeability (50k)

| | |
|---------------------------|----------|
| Records within 50m | 0 |
|---------------------------|----------|

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



- 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

17

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 92](#) >

| ID | Location | LEX Code | Description | Rock age |
|----|----------|-----------|---|-------------|
| 1 | On site | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 2 | On site | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 3 | 126m W | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |

| ID | Location | LEX Code | Description | Rock age |
|----|----------|-----------|---|-------------|
| 4 | 165m E | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 5 | 262m NE | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 7 | 321m NW | GM-SDST | GREENMOOR ROCK - SANDSTONE | WESTPHALIAN |
| 8 | 343m NE | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 10 | 345m NE | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 12 | 346m E | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 14 | 352m NW | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 15 | 356m N | GM-SDST | GREENMOOR ROCK - SANDSTONE | WESTPHALIAN |
| 16 | 384m NE | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 18 | 415m S | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 19 | 428m N | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 20 | 471m NW | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 21 | 472m S | GM-SDST | GREENMOOR ROCK - SANDSTONE | WESTPHALIAN |
| 22 | 494m E | KKBS-SDST | KIRKBURTON SANDSTONE - SANDSTONE | WESTPHALIAN |

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

2

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

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

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

6

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 92 >](#)

| ID | Location | Category | Description |
|----|----------|----------|---------------------|
| 6 | 262m NE | ROCK | Coal seam, inferred |
| 9 | 343m NE | FAULT | Fault, inferred |
| 11 | 345m NE | ROCK | Coal seam, inferred |
| 13 | 346m E | FAULT | Fault, inferred |
| 17 | 384m NE | ROCK | Coal seam, inferred |
| 23 | 494m E | ROCK | Coal seam, inferred |

This data is sourced from the British Geological Survey.

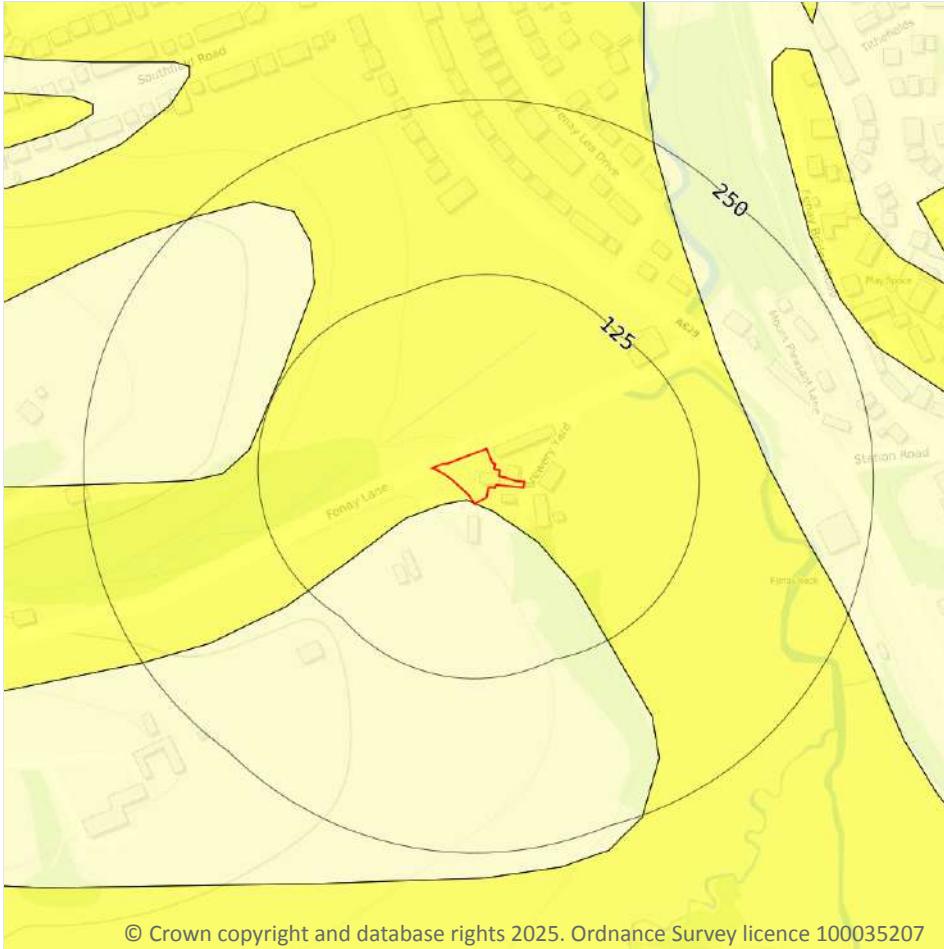


| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|----|----------|----------------|---------------------------------------|--------|--------------|-------------------------------|
| A | 188m E | 418229 415448 | PENISTONE-FENAYBRIDGE HUDDERSFIELD 4 | - | Y | N/A |
| A | 197m E | 418237 415454 | FENAY BRIDGE HUDDERSFIELD TP6 | - | Y | N/A |
| A | 202m E | 418242 415456 | FENAY BRIDGE HUDDERSFIELD TP7 | - | Y | N/A |
| A | 204m E | 418244 415435 | PENISTONE-FENAYBRIDGE HUDDERSFIELD 3 | - | Y | N/A |
| A | 205m E | 418245 415432 | FENAY BRIDGE HUDDERSFIELD TP4 | - | Y | N/A |
| A | 215m E | 418254 415420 | PENISTONE-FENAYBRIDGE HUDDERSFIELD 2A | - | Y | N/A |
| A | 217m E | 418256 415425 | FENAY BRIDGE HUDDERSFIELD TP5 | - | Y | N/A |
| A | 224m E | 418260 415405 | FENAY BRIDGE HUDDERSFIELD TP1 | - | Y | N/A |
| A | 225m E | 418259 415395 | PENISTONE-FENAYBRIDGE HUDDERSFIELD 1 | - | Y | N/A |
| B | 246m NE | 418260 415560 | FENAY BRIDGE HUDDERSFIELD 17 | 5.0 | N | 13224243 ↗ |
| B | 247m E | 418270 415540 | FENAY BRIDGE HUDDERSFIELD 24 | 7.5 | N | 13224258 ↗ |

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m

2

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

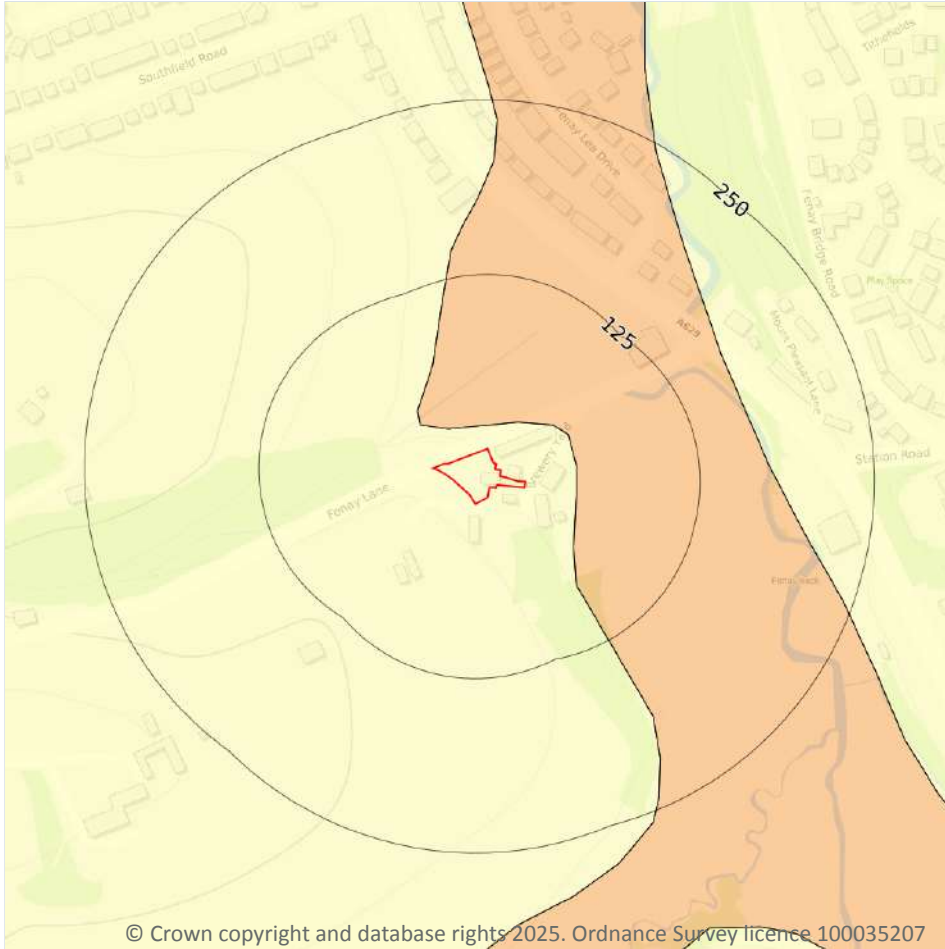
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 97 >](#)

| Location | Hazard rating | Details |
|----------|---------------|---|
| On site | Negligible | Ground conditions predominantly non-plastic. |
| On site | Very low | Ground conditions predominantly low plasticity. |

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 98](#) >

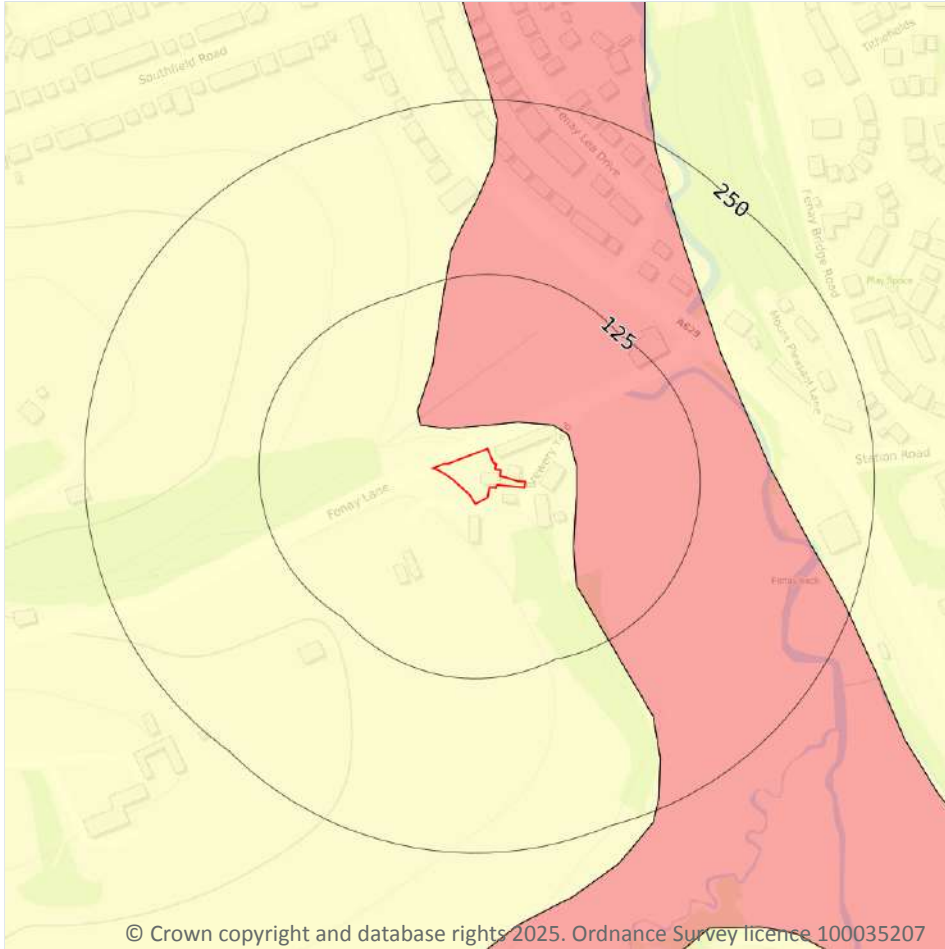
| Location | Hazard rating | Details |
|----------|---------------|--|
| On site | Negligible | Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions. |

| Location | Hazard rating | Details |
|----------|---------------|--|
| 17m N | Low | Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water. |

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

2

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.

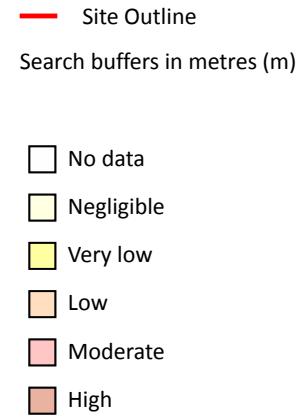
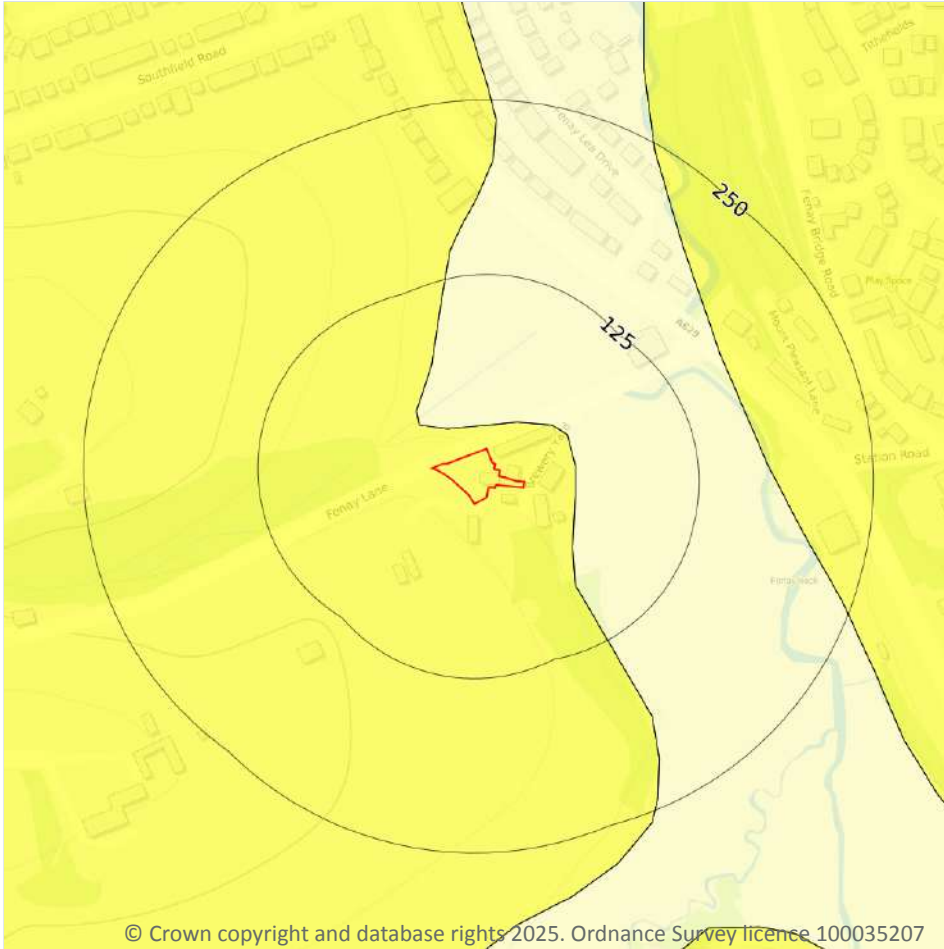
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 100](#) >

| Location | Hazard rating | Details |
|----------------|-------------------|--|
| On site | Negligible | Compressible strata are not thought to occur. |
| 17m N | Moderate | Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site. |

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

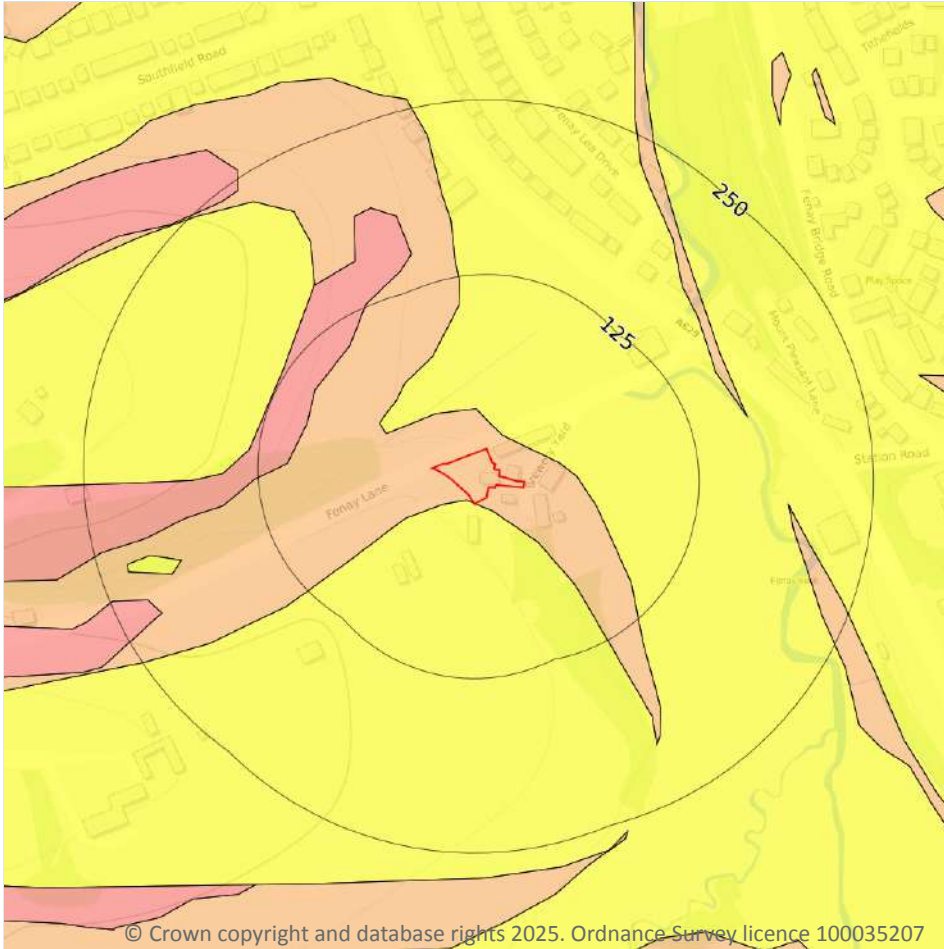
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 102 >](#)

| Location | Hazard rating | Details |
|----------|---------------|---|
| On site | Very low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. |
| 17m N | 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

2

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 103 >](#)

| 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. |

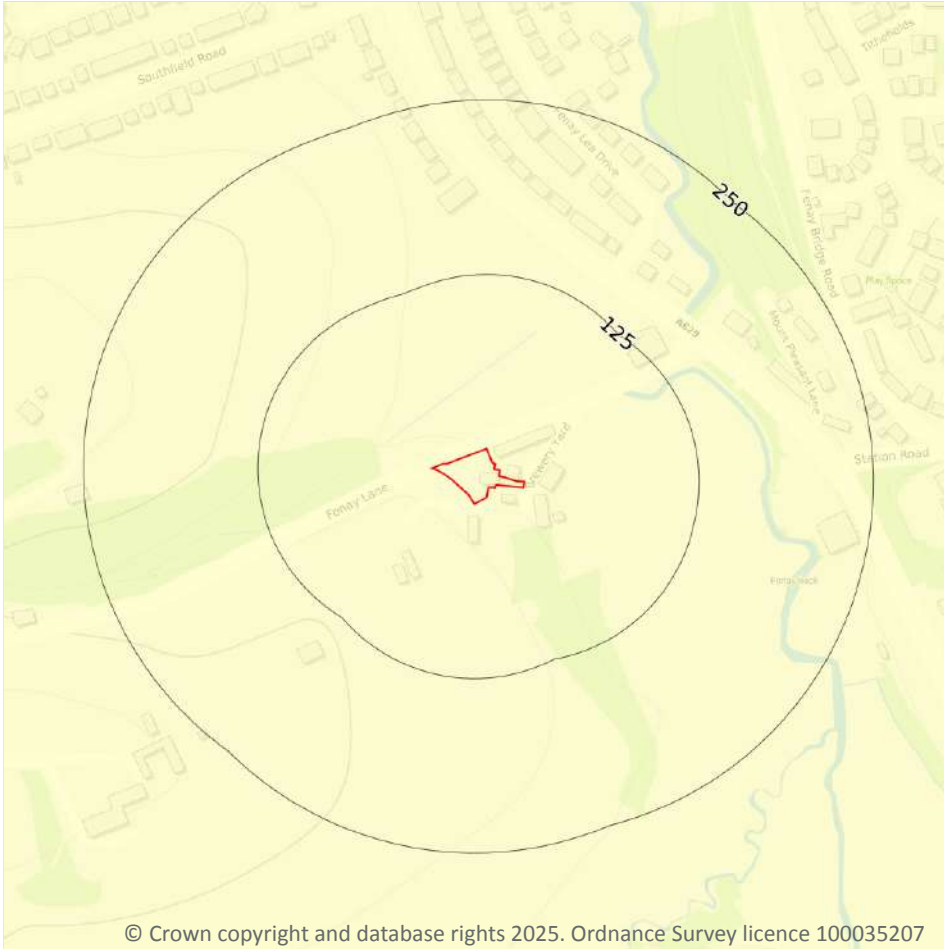


| Location | Hazard rating | Details |
|----------|---------------|--|
| On site | Low | Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site. |

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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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.

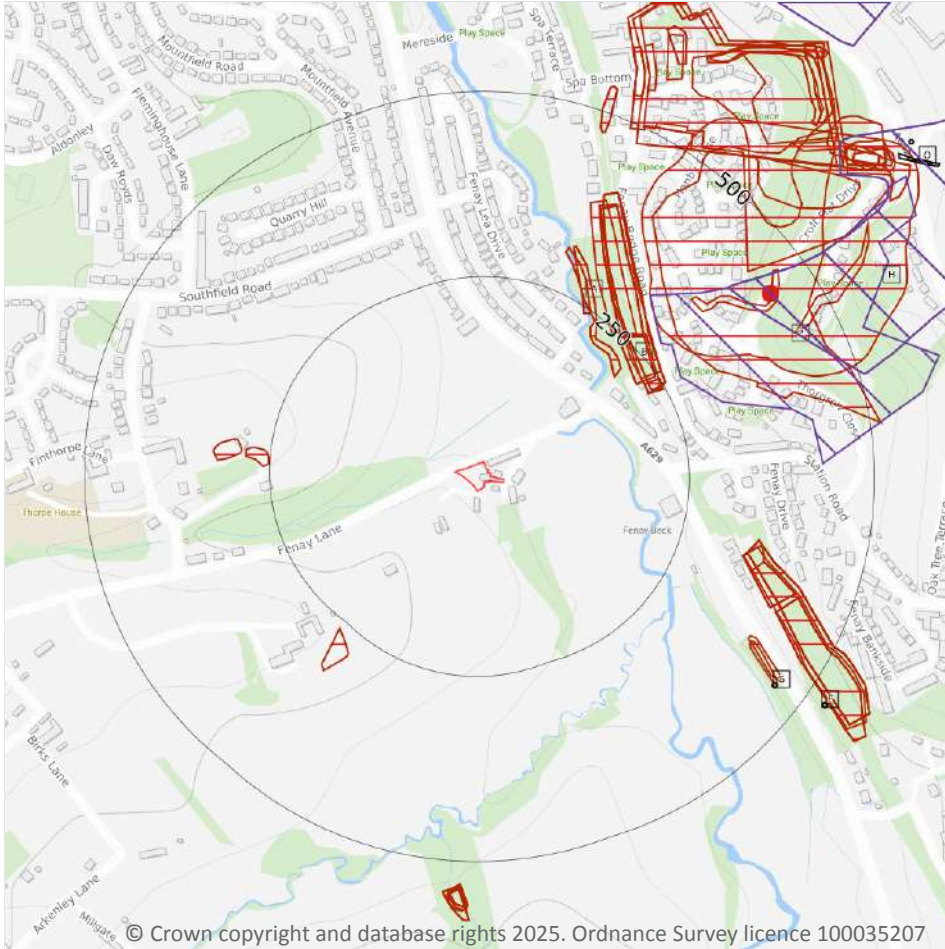
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 105 >](#)

| 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

1

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 107](#) >

| ID | Location | Details | Description |
|----|----------|---|--|
| D | 438m NE | Name: Spa Green Address: Lepton, HUDDERSFIELD, West Yorkshire Commodity: Clay & Shale Status: Ceased | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

| | |
|----------------------------|-----------|
| Records within 250m | 18 |
|----------------------------|-----------|

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 107](#) >

| ID | Location | Land Use | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| A | 203m NE | Unspecified Ground Workings | 1956 | 1:10560 |
| A | 203m NE | Unspecified Ground Workings | 1965 | 1:10560 |
| B | 220m NE | Cuttings | 1938 | 1:10560 |
| B | 220m NE | Cuttings | 1904 | 1:10560 |
| B | 220m NE | Cuttings | 1892 | 1:10560 |
| B | 227m NE | Cuttings | 1938 | 1:10560 |
| B | 227m NE | Cuttings | 1904 | 1:10560 |
| B | 227m NE | Cuttings | 1948 | 1:10560 |
| A | 230m NE | Cuttings | 1988 | 1:10000 |
| A | 233m NE | Cuttings | 1956 | 1:10560 |
| A | 233m NE | Cuttings | 1975 | 1:10000 |
| A | 233m NE | Cuttings | 1965 | 1:10560 |
| A | 242m NE | Unspecified Ground Workings | 1904 | 1:10560 |
| A | 242m NE | Unspecified Ground Workings | 1948 | 1:10560 |
| A | 245m NE | Cuttings | 1938 | 1:10560 |
| A | 250m NE | Cuttings | 1904 | 1:10560 |



| ID | Location | Land Use | Year of mapping | Mapping scale |
|----|----------|----------|-----------------|---------------|
| A | 250m NE | Cuttings | 1888 | 1:10560 |
| A | 250m NE | Cuttings | 1948 | 1:10560 |

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

9

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

Features are displayed on the Mining and ground workings map on [page 107 >](#)

| ID | Location | Land Use | Year of mapping | Mapping scale |
|----|----------|---------------------------|-----------------|---------------|
| G | 454m SE | Unspecified Old Shaft | 1956 | 1:10560 |
| F | 525m SE | Unspecified Disused Shaft | 1965 | 1:10560 |
| F | 525m SE | Unspecified Disused Shaft | 1975 | 1:10000 |
| O | 687m NE | Tunnel | 1948 | 1:10560 |
| O | 702m NE | Unspecified Old Shaft | 1948 | 1:10560 |
| O | 711m NE | Air Shaft | 1904 | 1:10560 |
| - | 817m SE | Unspecified Old Shaft | 1938 | 1:10560 |
| - | 818m SE | Unspecified Disused Shaft | 1965 | 1:10560 |
| - | 818m SE | Unspecified Old Shaft | 1956 | 1:10560 |

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

3

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

Features are displayed on the Mining and ground workings map on [page 107 >](#)

| ID | Location | Site Name | Mineral | Type | Planning Status | Planning Status Date |
|----|----------|----------------------|----------|---|-----------------|----------------------|
| 2 | 276m NE | Spa Green Brickworks | Clay | Surface mineral working | Valid | Not available |
| H | 399m NE | Lower Hall | Fireclay | Mineral working is partly on the surface and partly underground | Valid | Not available |
| H | 399m NE | Lower Hall | Fireclay | Surface mineral working | Valid | Not available |

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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).

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.

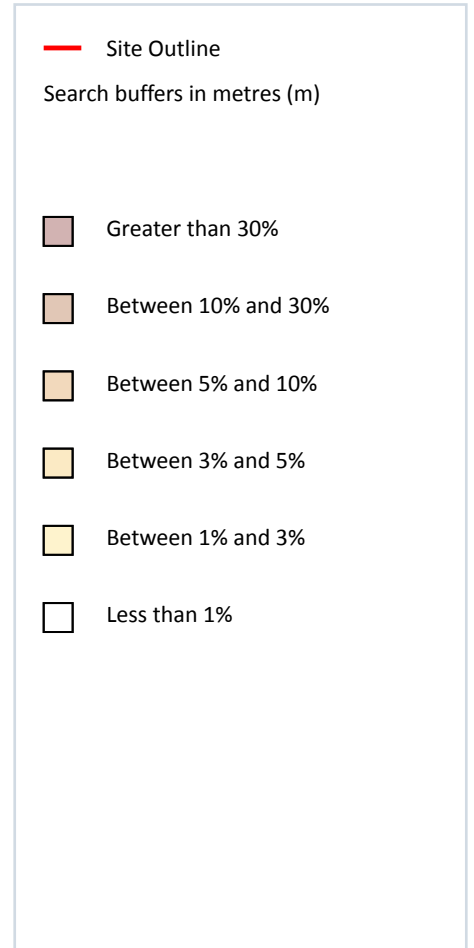
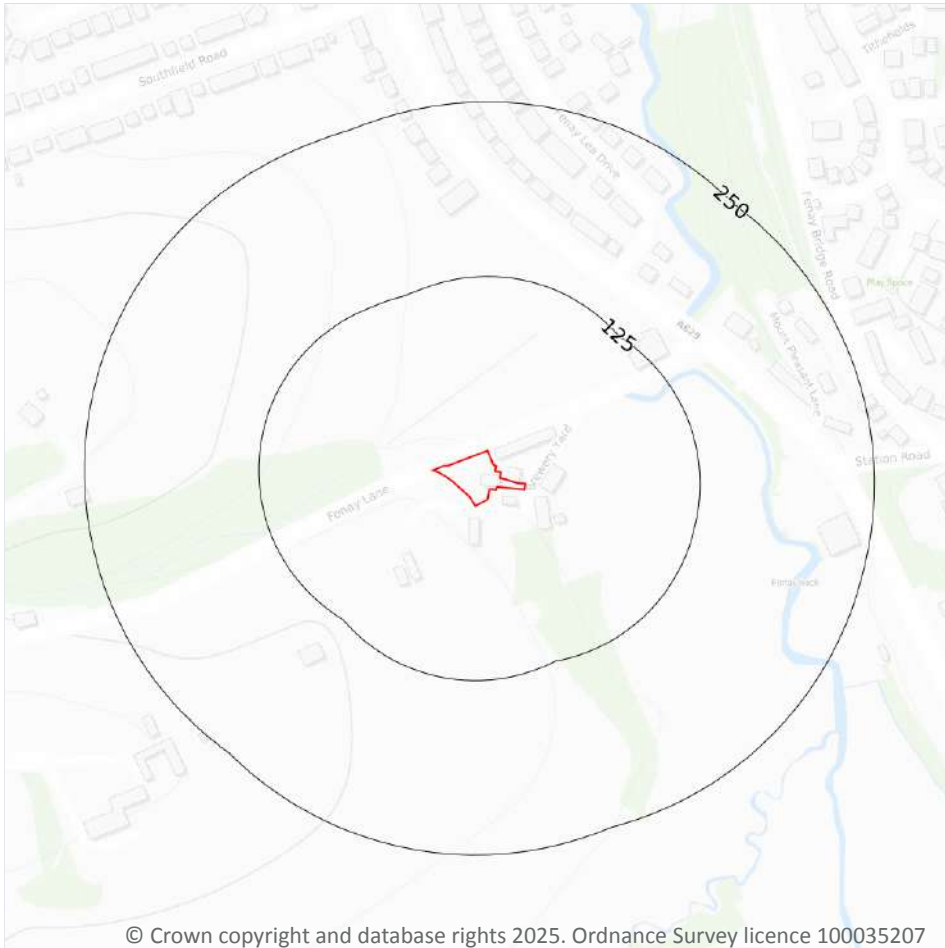
Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



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 115 >](#)

| 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

9

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

| Location | Arsenic | Bioaccessible Arsenic | Lead | Bioaccessible Lead | Cadmium | Chromium | Nickel |
|----------|---------------|-----------------------|-----------------|--------------------|-----------|-----------------|---------------|
| On site | 25 - 35 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site | 25 - 35 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site | 35 - 45 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| 3m S | 35 - 45 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| 17m N | 25 - 35 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 120 - 180 mg/kg | 30 - 45 mg/kg |
| 19m N | 25 - 35 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 120 - 180 mg/kg | 30 - 45 mg/kg |
| 28m N | 25 - 35 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 120 - 180 mg/kg | 30 - 45 mg/kg |
| 31m N | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 120 - 180 mg/kg | 30 - 45 mg/kg |
| 43m NW | 25 - 35 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 km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

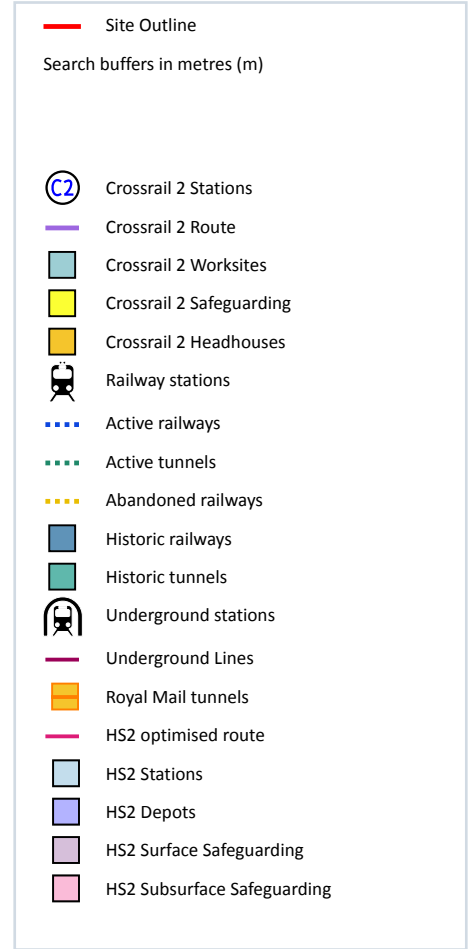
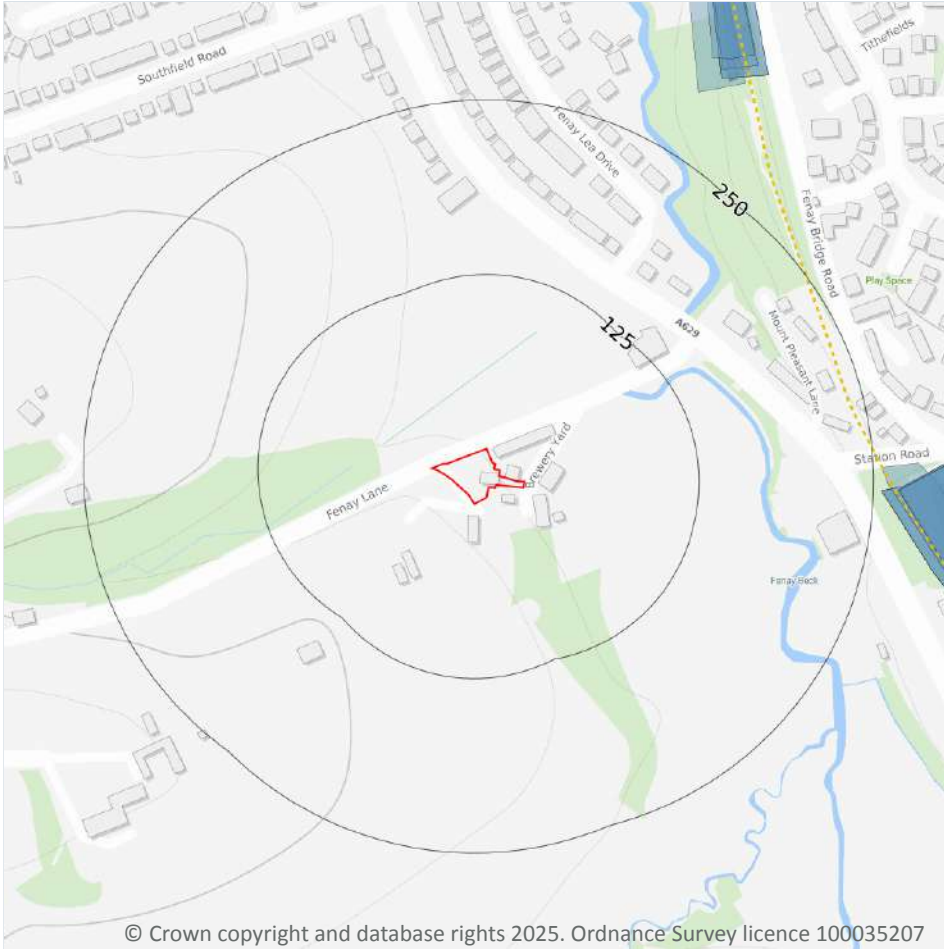
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

1

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

Features are displayed on the Railway infrastructure and projects map on [page 119 >](#)

| Location | Description |
|----------|-------------|
| 238m E | Razed |

This data is sourced from OpenStreetMap.



22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



Appendix 4

Photographs



Photo 1: Image shows the site entrance facing East.



Photo 2: Image shows the northern area of the site.



Photo 3: Image shows the internal area of the site.



Photo 4: Image shows well located to the East of the property.



Rogers Geotechnical Services Ltd

Offices 1 & 2, Barncliffe Business Park,
Near Bank, Shelley,
Huddersfield,

Job No:

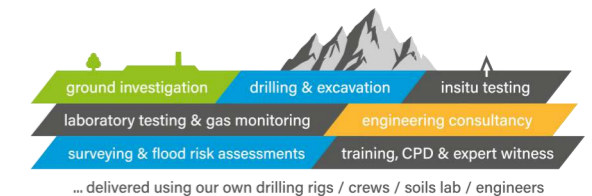
C5085/25/E/7746

Site:

2 Brewery Yard,
Fenay Bridge,
Huddersfield,
West Yorkshire,
HD8 0AR

Client:

Allsops Ltd.



... delivered using our own drilling rigs / crews / soils lab / engineers

Appendix 5

Consultants Coal Mining Report



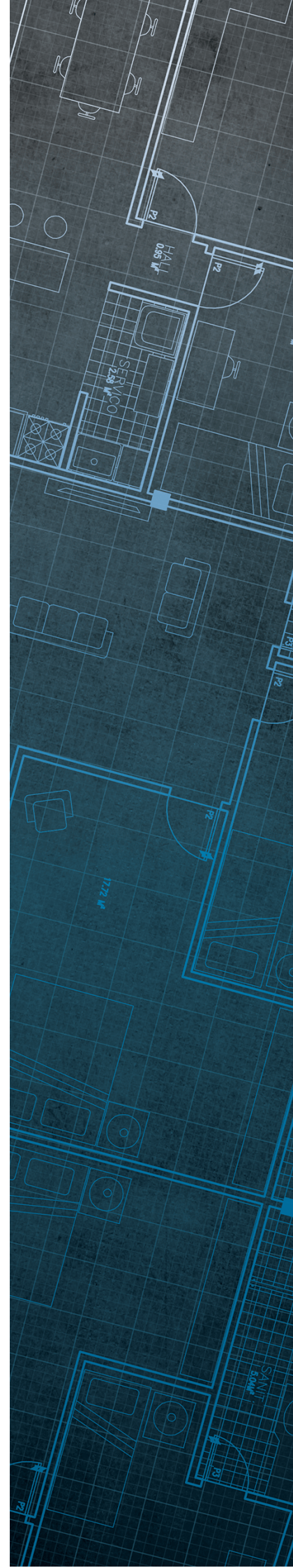
The Coal
Authority

Consultants Coal Mining Report

2 Brewery Yard
Fenay Bridge
Huddersfield
West Yorkshire
HD8 0AR

Date of enquiry: 11 April 2025
Date enquiry received: 11 April 2025
Issue date: 11 April 2025

Our reference: 51003491654001
Your reference: C/5085/25/E/7746



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

ROGERS GEOTECHNICAL SERVICES LTD

Enquiry address

2 Brewery Yard
Fenay Bridge
Huddersfield
West Yorkshire
HD8 0AR


How to contact us

0345 762 6848 (UK)
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200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

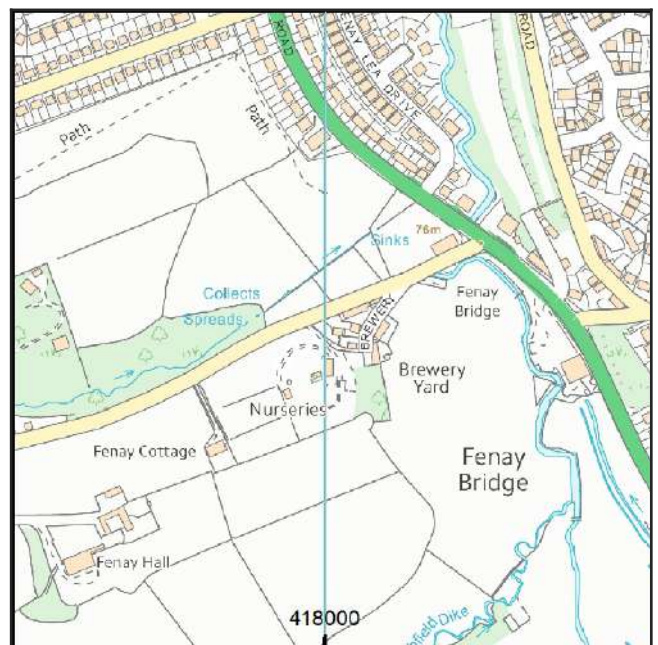
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

| | | |
|--------|--|--|
| FGB849 | | |
|--------|--|--|

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices


Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

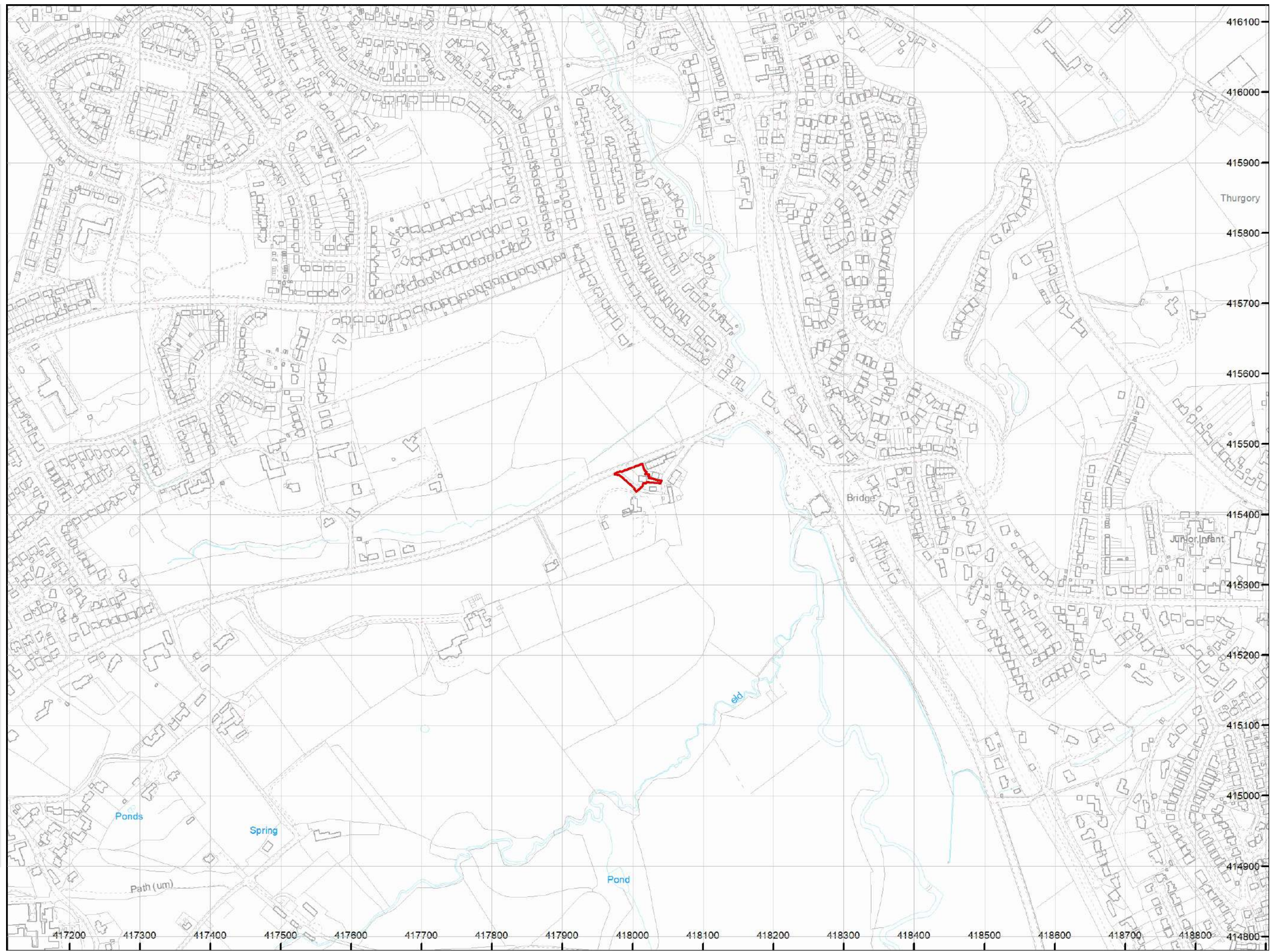
Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown 



How to contact us
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+44 (0)1623 637 000 (International)
www.groundstability.com