Environmental
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RGS

PHASE 1 ENVIRONMENTAL
DESK STUDY
REPORT

job number	C3669/23/E/5578
date	20/09/2024
site address	Stottercliffe Road, Penistone, Sheffield, South Yorkshire, S63 6EB
written by	R. A. Palmer
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Report on a Phase One Desk Study

Location:	Stottercliffe Road Penistone, Sheffield, South Yorkshire S36 6EB
For:	Fairbank Investments Ltd
Report No.	C3669/23/E/5578 Report date: September 2024

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

Rob Palmer MSc FGS ACIEH Engineering Director	**Imran Sakoor** BEng FGS Geo-environmental Engineer

1. Introduction

The site comprises an area of brownfield land located off Stottercliffe Road, Penistone. The site is approximately 0.54 hectares in size and its National Grid reference is centred around 424431, 403403.

It is understood that the development proposals are still to be determined, however residential development has previously been considered for the site. 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.

In accordance with issued guidance, a site walkover was conducted on the 15th August 2024 and the following observations were made:

General site description/current site use
The site comprises an area of wasteland that is used for parking. There is evidence that buildings have previously been on site but have subsequently been demolished. A derelict building is present when approaching the site from the east. Railway arches and derelict tracks are present on the northern boundary.

Site boundaries/access
The site is accessible via Stottercliffe Road to the east.

Topography
Whilst the topography of the surrounding area generally dips north towards the River Don, the site itself is relatively flat.

Surface cover of site
The site is covered by a mixture of bound macadam, broken concrete, gravel and grass.

Visible evidence of contamination/ contaminative sources
Demolition material was observed. However, there were no other visible signs of contamination present during the time of the walkover.

Presence of vegetation and wildlife
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.

Site neighbours
Residential housing is present to the north and south, with a garage/yard immediately present to the south-west.

In order to ensure that the site is fully characterised and to comply with the Environment Act 1995[1], a Phase One Desk Study has been commissioned by Fairbank Investments 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 Mining Report - Appendix 5

The data obtained from the above-mentioned sources has been summarised below[2].

[1]S57 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 Use[3]

HISTORICAL MAPPING SUMMARY		
Map Dates	**On site**	**Within 250m**
1891 - 1960	Site comprises a section of the London & North-Eastern Railway and sidings, with associated railway land, including a crane and goods shed(s).	Gas Works – 40m NW. Surrounding area comprises a mix of commercial and residential properties.
1968 - 1985	Site remains similar, albeit the crane has been removed.	Gas Work is now closed. Surrounding area becomes further developed, predominantly to the north and south-east.
1987 - 2024	Train line is dismantled. Goods shed(s) remains until at least 20017.	Surrounding areas remain similar.

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[4]**	**Parent Unit[4]**	**Description[5]**
Made Ground/Fill	N/A	N/A	Not indicated on site although previous construction may have resulted in the presence of made ground.
Superficial Geology	N/A	N/A	Not indicated to underlie the site.
Solid Geology	Penistone Flags	Pennine Lower Coal Measures Formation	Named sandstone member of the PLCMF.
	Undifferentiated Strata – Pennine Lower Coal Measures Formation	Pennine Coal Measures Group	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	Not indicated.
Coal Seam Outcrops	80m S	Lower Penistone Coal	Stratigraphically the coal seam is situated immediately above a leaf of the Penistone Flags. Locally thin to 0.3m in thickness.

[3] See Appendix 3
[4] Sources: British Geological Survey (NERC) Map Sheets 86; Glossop; Solid and Drift Edition, and Geology of Britain Viewer [*online resource from www.bgs.ac.uk*]
[5] Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [*online resource from www.bgs.ac.uk*]

Previous Investigation			
Phase 2 Site Investigation	On Site	Completed by GRM in 2016	Made Ground present to 3.3m, with weathered rock present thereafter. Soil contamination identified. Elevated carbon dioxide detected.

NATURAL GROUND SUBSIDENCE & HAZARDS[6]	
Type	**Risk Rating**
Potential for shrinking or swelling clay ground stability	Very low.
Potential for running sand ground stability	Negligible.
Potential for compressible ground stability	Negligible.
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

It appears that there could be significantly filled ground on site, therefore it is anticipated that piled foundations could be utilised at this site. It should be appreciated that an intrusive investigation will be required to validate this opinion.

2.3.2 Site Won Materials

It is unlikely that any materials will be present beneath the site that shall be suitable for re-use.

2.3.3 Disposal of Site Materials

Additional contamination/WAC testing will be required to establish the nature of the underlying soil before disposal to a licensed landfill site. However, it is anticipated that the naturally occurring soils would not be significantly contaminated, thus would probably be accepted by a waste disposal site catering for inert material.

[6] See Groundsure report

2.4 Mining and Natural Cavities

2.4.1 Coal Mining

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	No	No plans available.
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.

2.4.2 Coal Risk Assessment

The site is not indicated to be present in a high-risk development area. The site is positioned on a sandstone leaf of the Penistone Flags. Stratigraphically the sandstone is positioned beneath the Lower Penistone Coal seam. As such, this coal seam shall not be present beneath the site. Moreover, the next seam in the Coal Measures sequence is the Better Bed Coal seam which is anticipated to be present between 15m and 20m below the site surface. The seam is intermittent in the area and is recorded to have a maximum thickness of 0.3m. It is unlikely that this seam, if present, will have been worked. In any event, given the limited thickness, if worked the seam is present at a depth whereby any associated collapse of workings would represent a low risk to surface stability. Therefore, no further action is required.

2.5 Waste Management and Gas Monitoring

Table 4: 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	106m W	Stottercliffe Road. Waste Type undisclosed.	N
Historic Waste Sites	17m W	Refuse Tip	Y
MADE GROUND & INFILLED GROUNDWORKINGS			
Description	**Location**	**Comments**	**Monitoring Requirement**
Records of Potentially Infilled Features	On Site	Railway Embankment and Sidings	Y

2.6 Hydrogeology, Hydrology

Table 5: Ground/Controlled Water Sensitivity and Flooding

ENVIRONMENT AGENCY AQUIFER DESIGNATION[7]		
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[8]		
Description	**Location**	**Details**
Source Protection Zone	-	None recorded within 250m.
Abstraction Licences	-	None recorded within 250m.

[7] See Appendix 2
[8] See Appendix 2

CONTROLLED WATERS[9]		
Description	**Location**	**Details**
River Network Entries	250m N	River Don – downslope.
Surface Water Features	Within 250m	3 surface water records present within 250m. Unknown type.

POLLUTION INCIDENTS[10]			
Pollutant	**Receptor**	**Location**	**Date**
Specific Waste Materials	Water Category 4 (No Impact) Land Category 3 (Minor)	68m E	Feb 2002
Atmospheric Pollutants and Effects	Water Category 4 (No Impact) Land Category 4 (No Impact)	114m NW	May 2003

ENVIRONMENT AGENCY FLOOD RISK[11]		
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	-	None recorded within 250m.
Groundwater Flooding Area	-	Limited potential for groundwater flooding to occur.

2.7 Sensitive Land Use

Table 6: Sensitive Land Uses within 250m

REGISTERED SENSITIVE LAND USES [12]		
Description	**Location**	**Details**
Nitrate Vulnerable Zone	+500m N	Existing.
Green Belt Land	178m W	South and West Yorkshire

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.[13] 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.

[9] See Appendix 2
[10] See Appendix 2
[11] See Appendix 2
[12] See Appendix 2
[13] 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 7: Potentially Contaminative Sources		
HISTORICAL		
Land Use	**Location**	**Classification**
Historical construction	On site	Artificial/made ground.
Railway and associated infrastructure	On site	Railway land.
Unspecified Mills Tanks	61m NW 70m W to 100m SE	Unspecified works/factories/features.
CURRENT		
Land Use	**Location**	**Classification**
C D Autos Stottercliffe Garage	On site 17m SE	Road vehicle fuelling, service and repair: garages and filling stations.

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.[14]

[14] 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

Development proposals are yet to be finalised, albeit it is possible a residential end use could be adopted. To cater for the most sensitive end use, it is considered that the soil screening values (SSVs) for a residential with plant uptake end use should be employed until further notice.

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 8: 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.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Any on site sources of contamination could migrate to neighbouring properties. Previous testing undertaken on site identified contamination. Further testing required to reach a firm conclusion.
	End User	Yes – end users are likely to come in contact with the soil.	High	
	Neighbours	Yes – possible source on site and immediate neighbours are present.	Moderate	
Inhalation of Dust/Vapours	Operative	Yes – contact with soil likely during works and vapours may accumulate in enclosed spaces.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Any on site sources of contamination could migrate to neighbouring properties. Construction activities may create dust on and off site, which, if contaminated, could adversely affect operatives, end users and neighbours. In the event that harmful vapours are present they may accumulate in enclosed spaces, affecting operatives, end users and neighbours. Previous testing undertaken on site identified contamination. Further testing required to reach a firm conclusion.
	End User	Yes – vapours may accumulate in enclosed spaces and dust may be created from open landscaped areas.	High	
	Neighbours	Yes – neighbouring properties present and possible inhalation of dust during the works.	Moderate	
Ingestion of fruit/vegetables and/or waters	Operative	No – no edible plants or contained water sources in the area of the proposed new works.	N/A	There are potential on and off-site sources of contamination that may have caused contamination of the site. Previous testing undertaken on site identified contamination. Further testing required to reach a firm conclusion.
	End User	Yes – likely that landscaping shall be proposed as part of any development.	High	
	Neighbours	Yes – residential dwellings present within 250m of the proposed development.	Low to Moderate	

Migration of hazardous gases via permeable strata	Operative	Yes – possible off-site sources and potential source on site associated with historical construction.	Moderate	Possible source on site and within 250m. A programme of monitoring is recommended but is suggested to be limited to 4 readings over one month in the first instance. If significant made ground considered capable of producing harmful gases is revealed during the investigation works, the monitoring regime may require reassessment to consider a higher potential risk.
	End User		Moderate	
	Neighbours	Yes – possible source on site due to historical construction.	Low to Moderate	
Spillage/loss/run off direct to receiving water	Controlled Waters	Yes – source on site and controlled waters within 250m.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Controlled waters within 250m. Secondary A aquifer underlies the site. Permeability of underlying geology should be assessed. Further testing required to reach a firm conclusion.
Migration via permeable unsaturated strata	Controlled Waters	Yes – source on site and Secondary A aquifer beneath the site.	Moderate	
Run off via drainage/sewers etc	Controlled Waters	Yes – source on site.	Moderate	
Direct contact with contaminated soils	Plants	Yes – some soft landscaping areas may be present as part of the proposed development.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Any on site sources of contamination could migrate to neighbouring properties. Further testing required to reach a firm conclusion.
Uptake via root system			Moderate	
Direct contact with contaminated soils/	Building Materials	Yes – possible source on and off site and foundation and service installation materials may be affected by the site soil.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Further testing required to reach a firm conclusion.
Direct contact with contaminated groundwater				

Exposure to Radon	Operative End User	Yes – site currently indicated to be present in a negligible risk radon affected area[15].	Low	Less than 1% of properties are affected. The publication BR211 states that no protection measures are necessary.

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.

[15] 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 Site Investigation Philosophy

The information from the Phase 1 Desk Study shows there are sources of contamination on the site and in the surrounding area. In view of the above, any intrusive investigation should be undertaken in accordance with the sampling strategies given in BS10175: 2011 +A2:2017 and CLR4:1994. These two sampling strategies may be classified as:

- Non-Targeted – using a defined sampling pattern (BS10175)
- Targeted – based on prior knowledge and professional judgement (CLR4)

These sampling strategies are considered in more detail below. However, it is emphasised that they can be used individually or in combination depending on the depth of site knowledge.

Non-Targeted Sampling

If no obvious 'hot spots' of contamination have been identified on a site, it would be recommended that a stratified random pattern of sampling points be considered. This work should be undertaken with reference to BS10175: 2011 +A2: 2017 *Investigation of potentially contaminated sites – Code of practice*: 7.6, and BS5930 2015 + A1:2020, *Code of practice for ground investigations.*

Targeted Sampling

If a possible 'hot spot' of contamination has been identified on a site, it is recommended that a herringbone pattern of sampling points be considered in the immediate vicinity. If strong evidence of contamination has then been identified, it is recommended that sampling be highly focused to reflect that evidence and the investigator's experience. This work should be undertaken with reference to CLR4, *Sampling Strategies for Contaminated Land, 1994*.

The density of sampling required is defined in BS10175: 2011: +A2: 2017: 7.7.2.2.3, which indicates that an *exploratory* investigation usually requires a lower density sample spacing than does a *main* investigation. The BS goes on to state that *the actual density should depend upon the confidence and robustness required of decisions that will be based on the information obtained. Thus, the area and depth of interest will be related to the contaminants present, the pathways and the receptors. Typical densities of sampling grids can vary from 25m to 50m centres for exploratory investigations, and 10m to 25m centres for main investigations.*

4.2 Site Specific Investigation

In view of the information provided above it is considered that an investigation of the site should include the following main elements.

4.2.1 Contamination Assessment

It may be appreciated that BS 10175 clause 7.7.2.2.3 suggests that the number of sampling points at the site should be based on a minimum of three testing locations or the size of the site with respect to the appropriate grid spacing, whichever the greater. On the basis of the site area being 0.54ha, the number of sampling points at the site should be considered with respect to the table below.

Table 9: Summary of Sampling Strategy

NUMBER OF SAMPLING POINTS					
	Soil	**Water**	**Asbestos**	**Standpipes**	**Standpipe Readings**
Exploratory Investigation 50m x 50m grid	3	-	3	3	A minimum of 4 readings over 1 month would be required as per risk assessment, however any regime must take into account the guidance detailed below.
Target Areas	Should be assessed during any investigation.				

Chemical testing should be undertaken on the above grid spacing and the following standard testing regime should be undertaken:

- **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 EPA16), Total petroleum hydrocarbons (TPH CWG).
- **Others** – pH, Organic Content.
- **Asbestos**

Sampling Method

Investigation should include the installation of three gas monitoring standpipes for subsequent monitoring. Furthermore, soils should be obtained for chemical sampling. The sampling strategy should employ the non-targeted strategy given above in the first instance, i.e. at least three sampling points, if it is anticipated that made ground is significant across the site. However, if the made ground at the site is thought to be localised to specific areas, then the targeted strategy should be used.

It should be possible to carry out the above work with a windowless sampling drilling rig, however, it may be more pragmatic to employ hand-held digging tools for a targeted strategy.

Gas Monitoring

The final gas monitoring regime should be undertaken in accordance with Table 4.2 of CIRIA C665: 2007: *Assessing risks posed by hazardous ground gasses to buildings.* In that document guidance

for the frequency of monitoring is provided on tables 5.5a and 5.5b *Typical/idealised frequency and period of monitoring* on page 60. For convenience, these tables have been combined and reproduced below.

Table 10: Typical/idealised Frequency and Period of Monitoring.

Sensitivity of development	Generation potential of source				
	Very low	Low	Moderate	High	Very High
Low (commercial)	4/1	6/2	6/3	12/6	12/12
Moderate (flats)	6/2	6/3	9/6	12/12	24/24
High (residential + gardens)	6/3	9/6	12/6	24/12	24/24

Notes:

a) The first number is the minimum number of readings and the second number is the minimum period in months, for example 4/1 – four sets of readings over 1 month.

b) At least two sets of readings must be at low and falling atmospheric pressure (but not restricted to periods below 1000mb) known as worst case conditions.

c) The frequency and period stated are considered to represent typical minimum requirements. Depending on specific circumstances fewer or additional readings may be required (e.g. any such variation subject to site specific justification). The NHBC guidance is also recommending these periods/frequencies of monitoring.

d) Historical data can be used as part of the data set.

e) Not all sites will require gas monitoring. However, this would need to be confirmed with demonstrable evidence.

f) Placing high sensitivity end use on a high hazard site is not normally acceptable unless the source is removed or treated to reduce its gassing potential. Under such circumstances long-term monitoring may not be appropriate or required.

g) This guidance should be read in conjunction with BS 8576:2013 figure 6 which may justify fewer readings in the first instance, where the generation potential is considered to be very low to low. However, this should be undertaken pragmatically, and further readings obtained according to the above table, where a potentially significant source is identified and initial readings suggest that remedial measures are not necessary.

4.2.2 Geotechnical Assessment

In addition to the above contamination assessment which is likely to be required by planning authorities and insurance providers, the following investigation strategy could be considered:

Sampling Method

It is anticipated that a windowless sampling drilling rig will be able to gain sufficient data in regard to the near surface soils. Moreover, such equipment should be able to undertake Standard Penetration Testing (SPT) and/or Dynamic Probing.

Geotechnical Testing

An allowance for geotechnical testing of the soils should be included in any ground investigation.

4.2.3 Reporting

The above data will need to be formulated into a formal assessment that should include the following:

- Geotechnical recommendations.
- Contamination assessment.
- Contamination remediation strategy.
- Any recommendations for further work, if required and including validation reports where site remediation is necessary.

As soon is as 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.

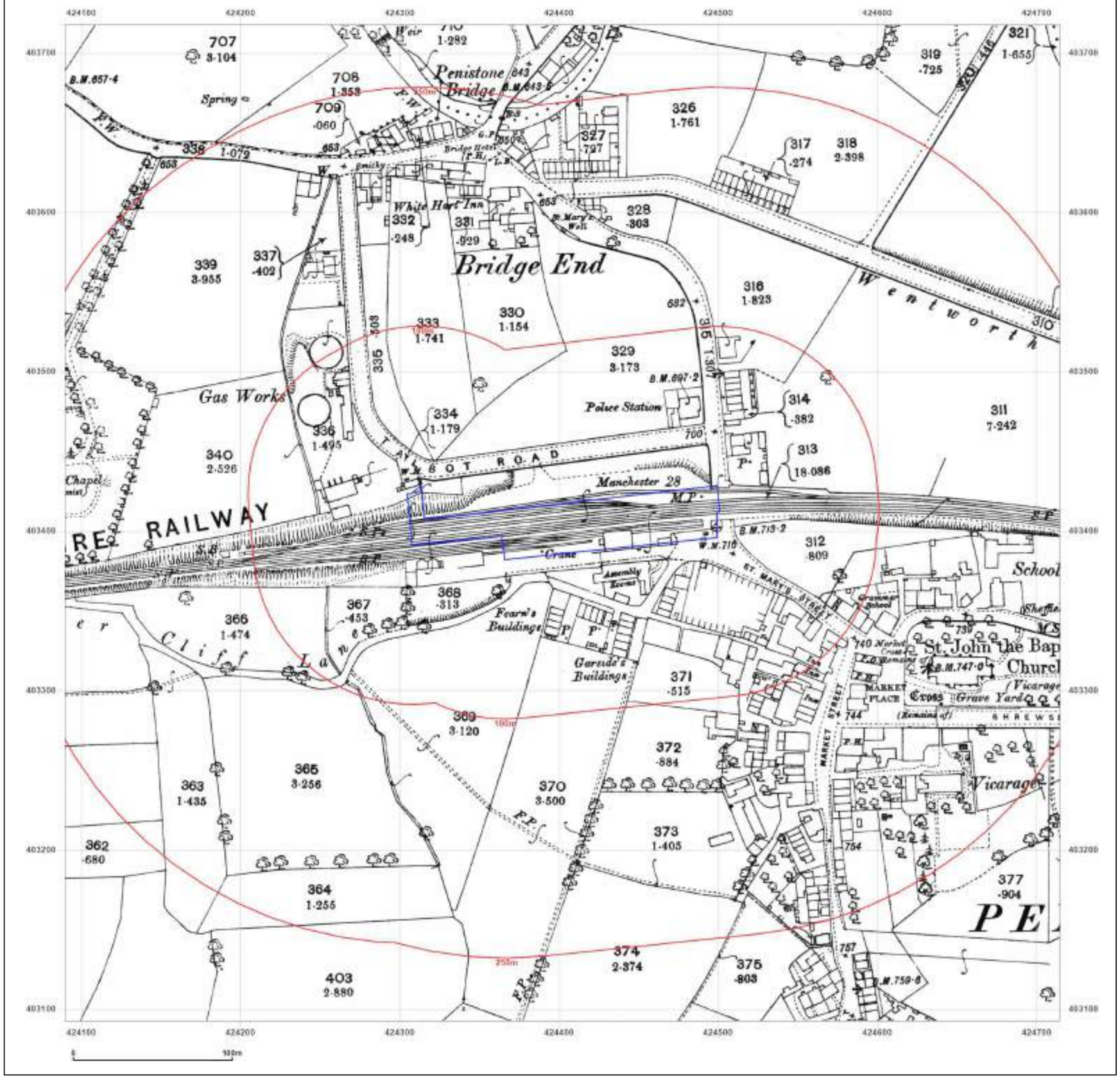
Appendix 1

Site Plans


Saint Mary's Catholic Church
Mary Brady Podiatry
Penistone Engineering Supplies
Talbot Rd
Talbot Rd
Talbot Rd
Talbot Rd
Talbot Rd
B6462
Penistone Skate Park
Compound Coaching
Stonecliffe Garage
Generations Cafe Bar
Market Ln
Gemma Bann Hairdressing
Market Ln
The Lath Coffee Shop
B6462

Appendix 2

Historical Maps



Groundsure INSIGHTS

Site Details:

STOTTERCLIFFE ROAD,
PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: County Series
Map date: **1893**
Scale: 1:2,500
Printed at: 1:2,500

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

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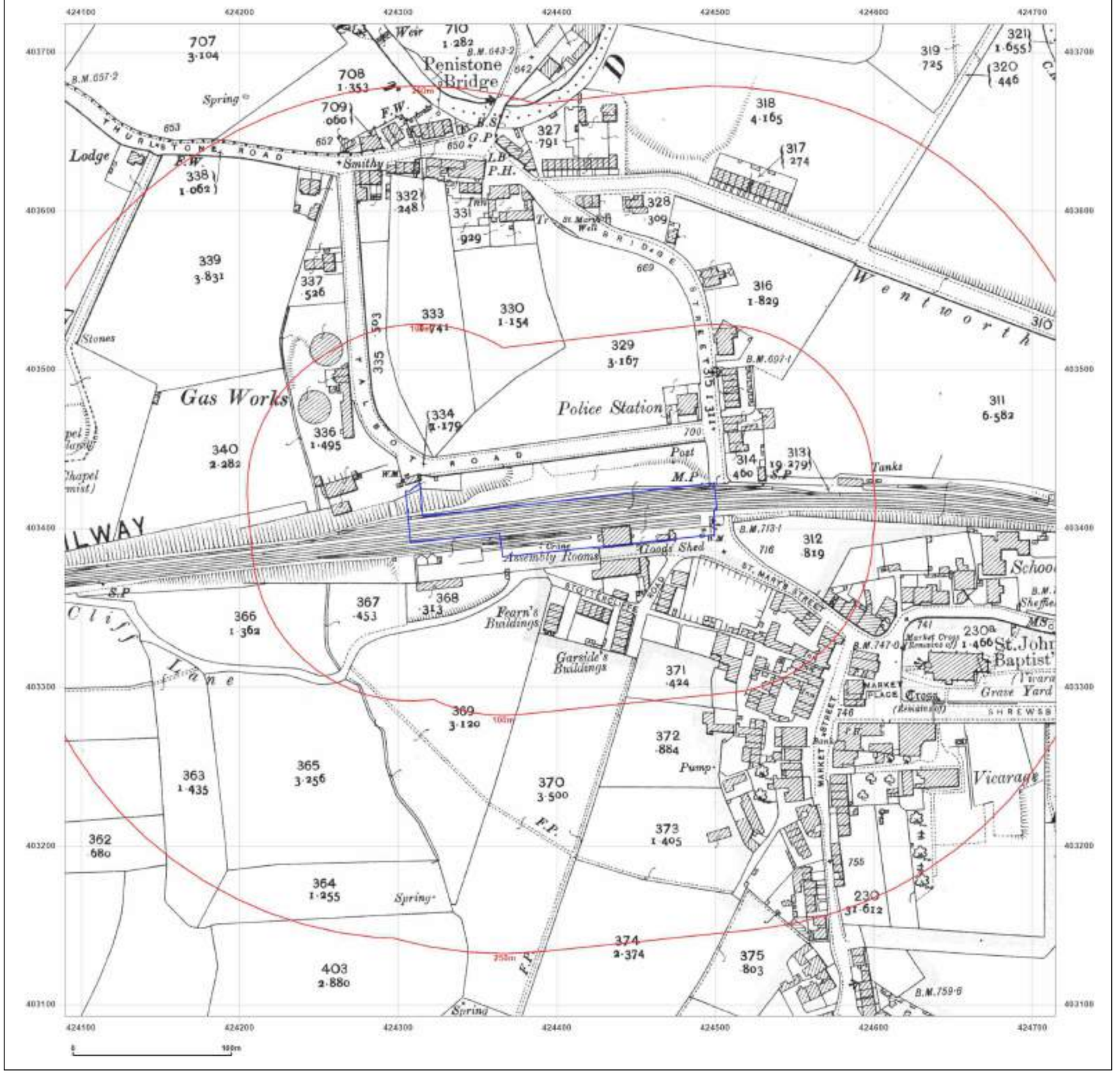

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PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

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

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

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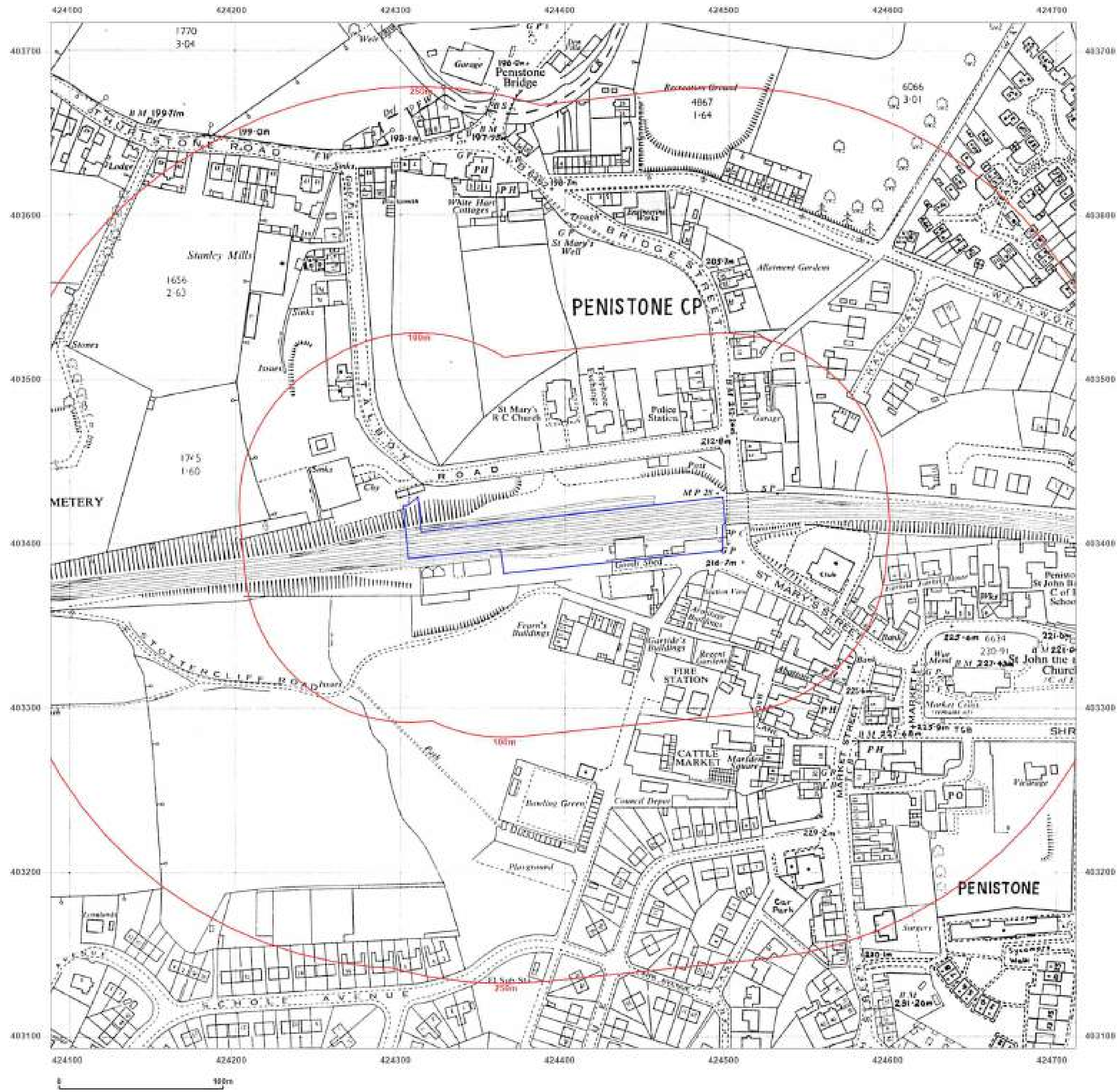

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid
Map date: **1959**
Scale: 1:2,500
Printed at: 1:2,500

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

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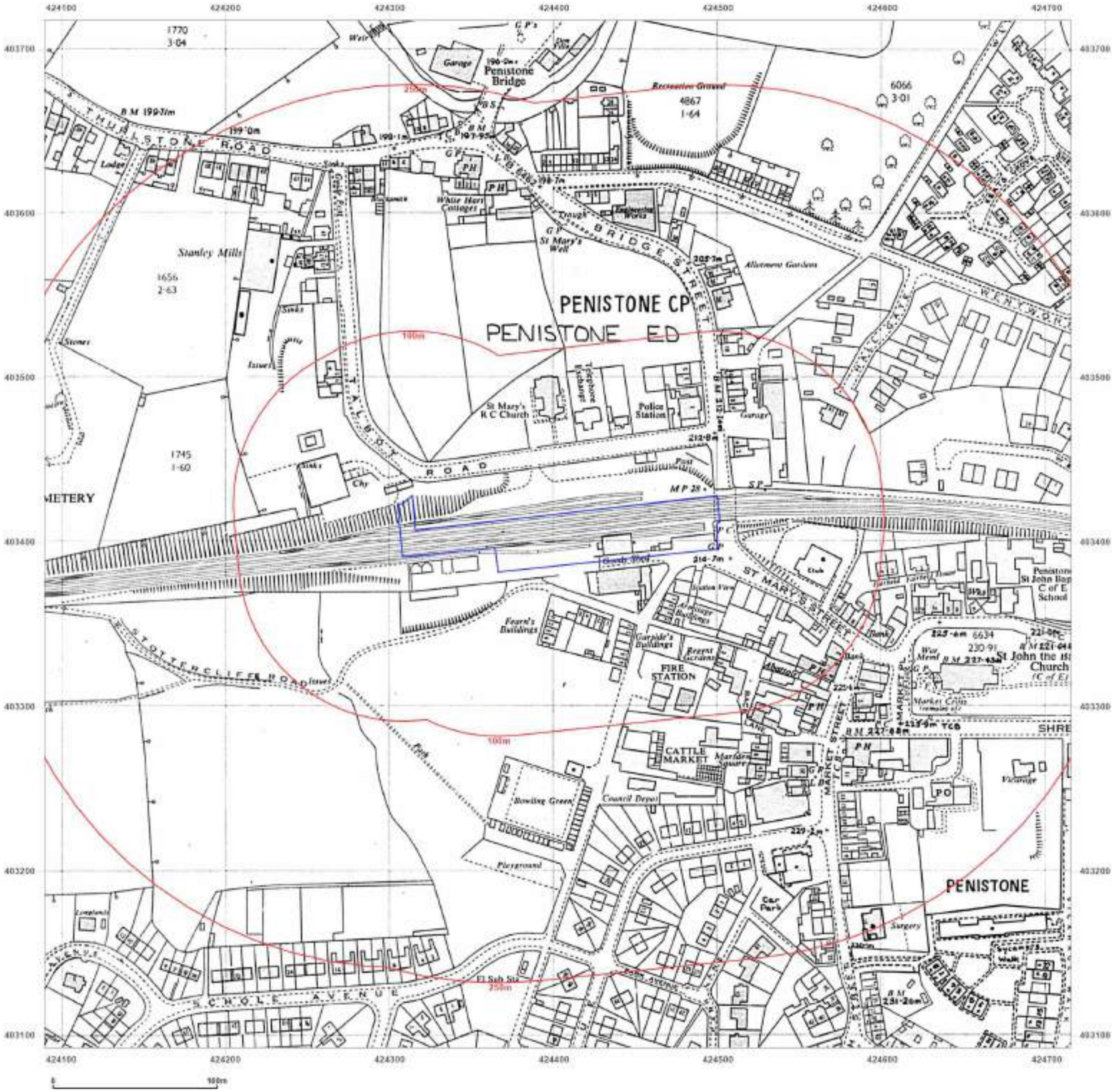

Groundsure INSIGHTS

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PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

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

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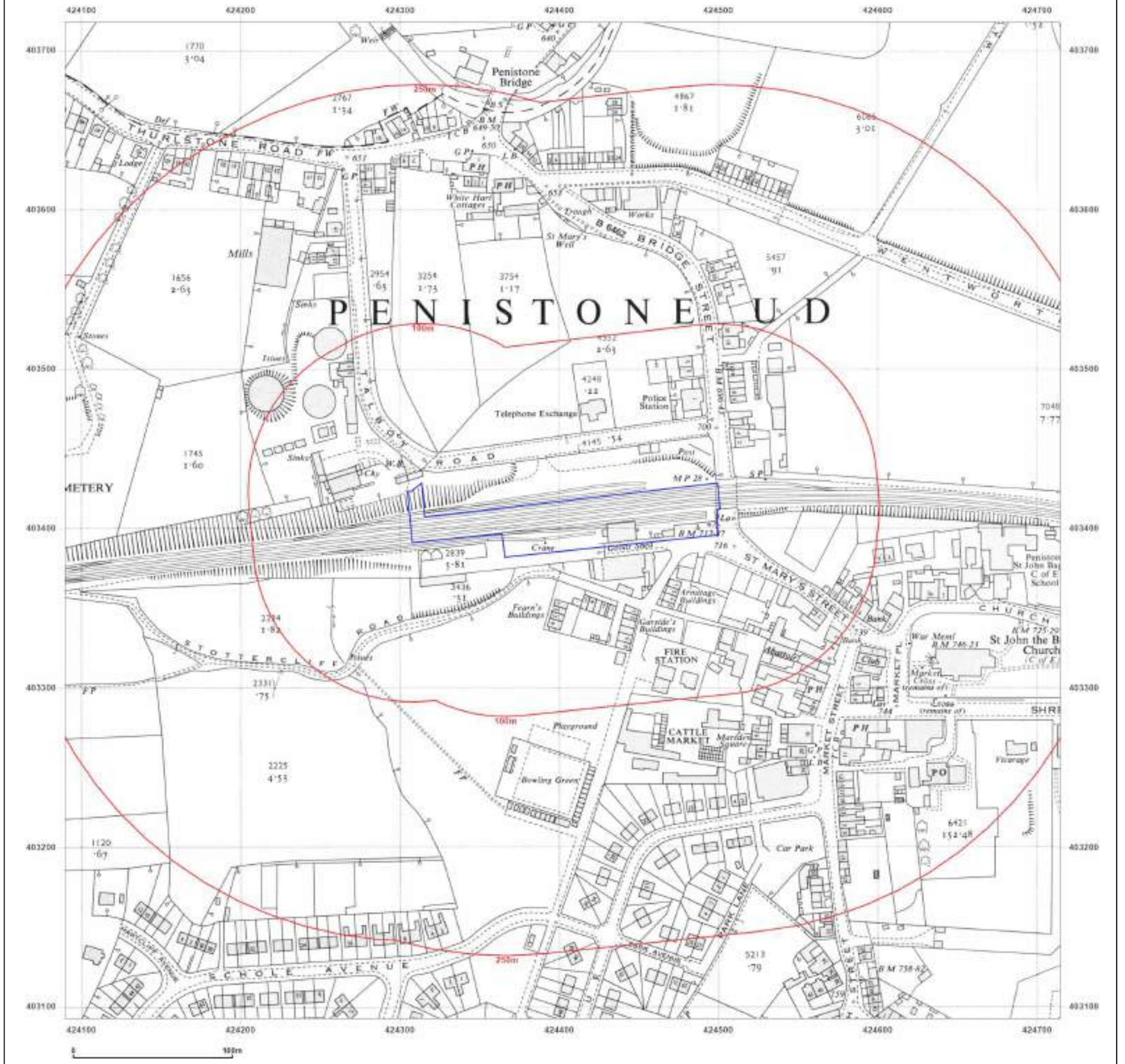

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6EB

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Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1960**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1930

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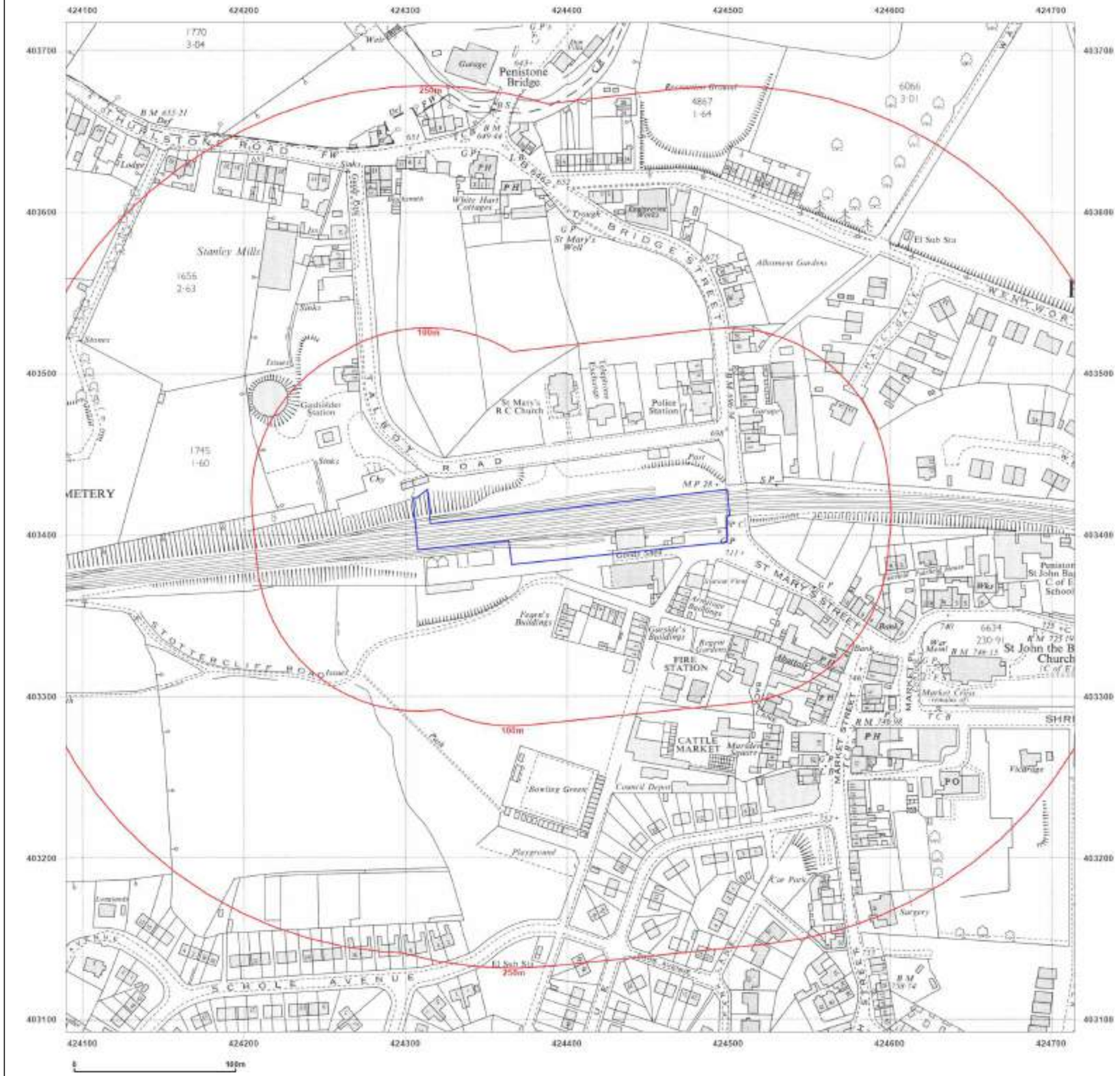

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1968**

Scale: 1:2,500

Printed at: 1:2,500

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

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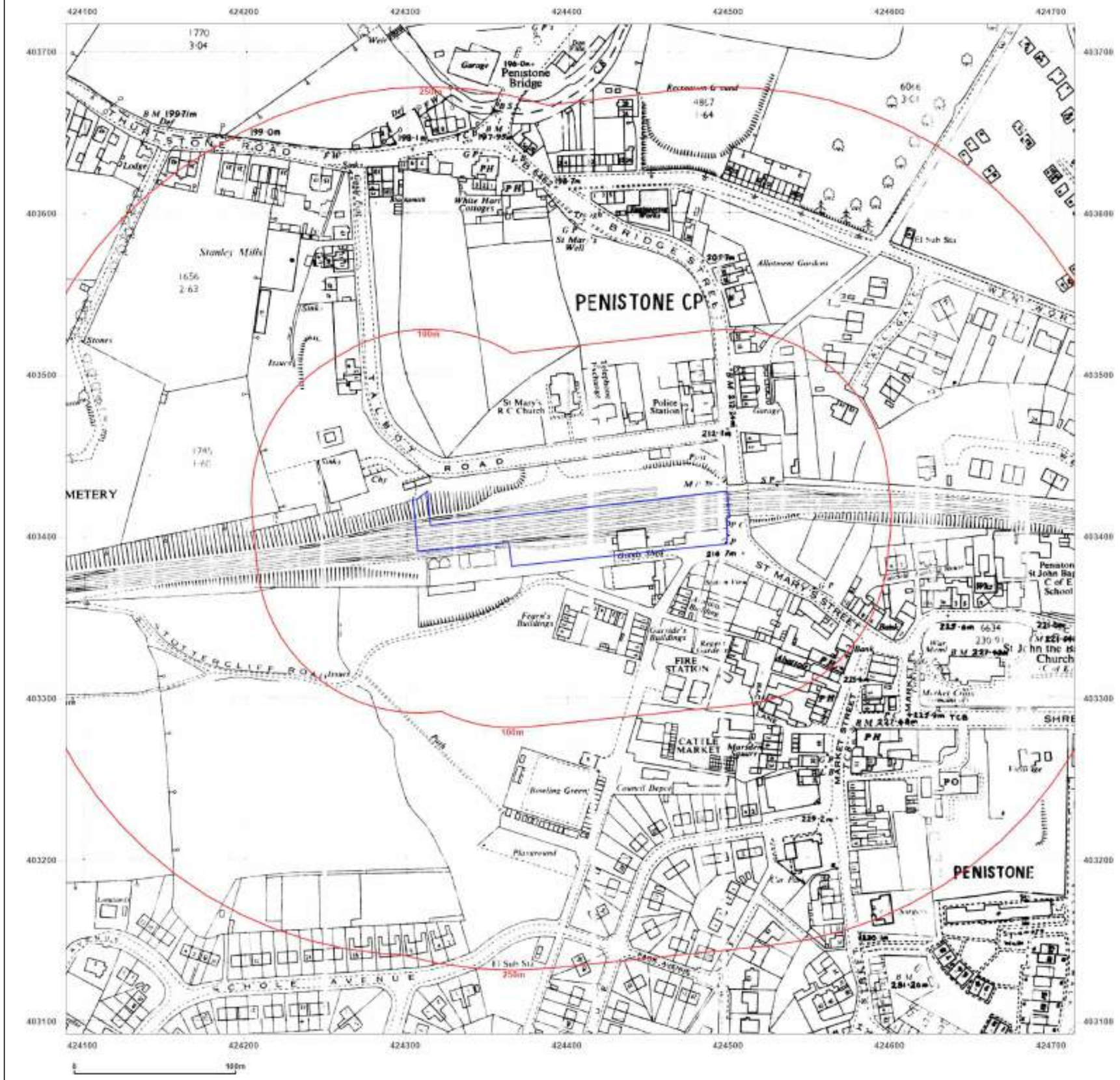

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1978**

Scale: 1:2,500

Printed at: 1:2,500

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

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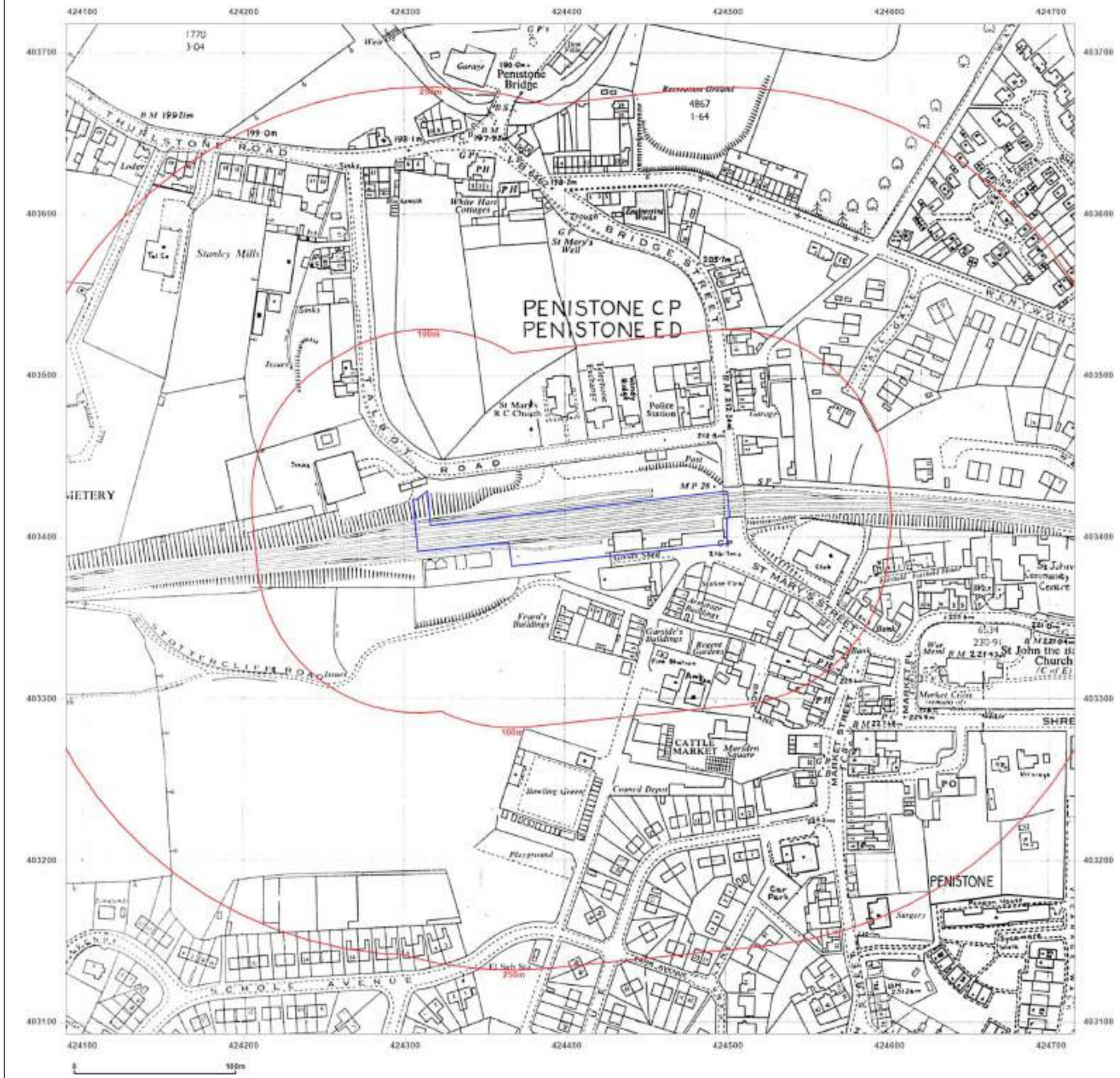

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6EB

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Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1983**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1959
Revised 1983
Edition N/A
Copyright 1983
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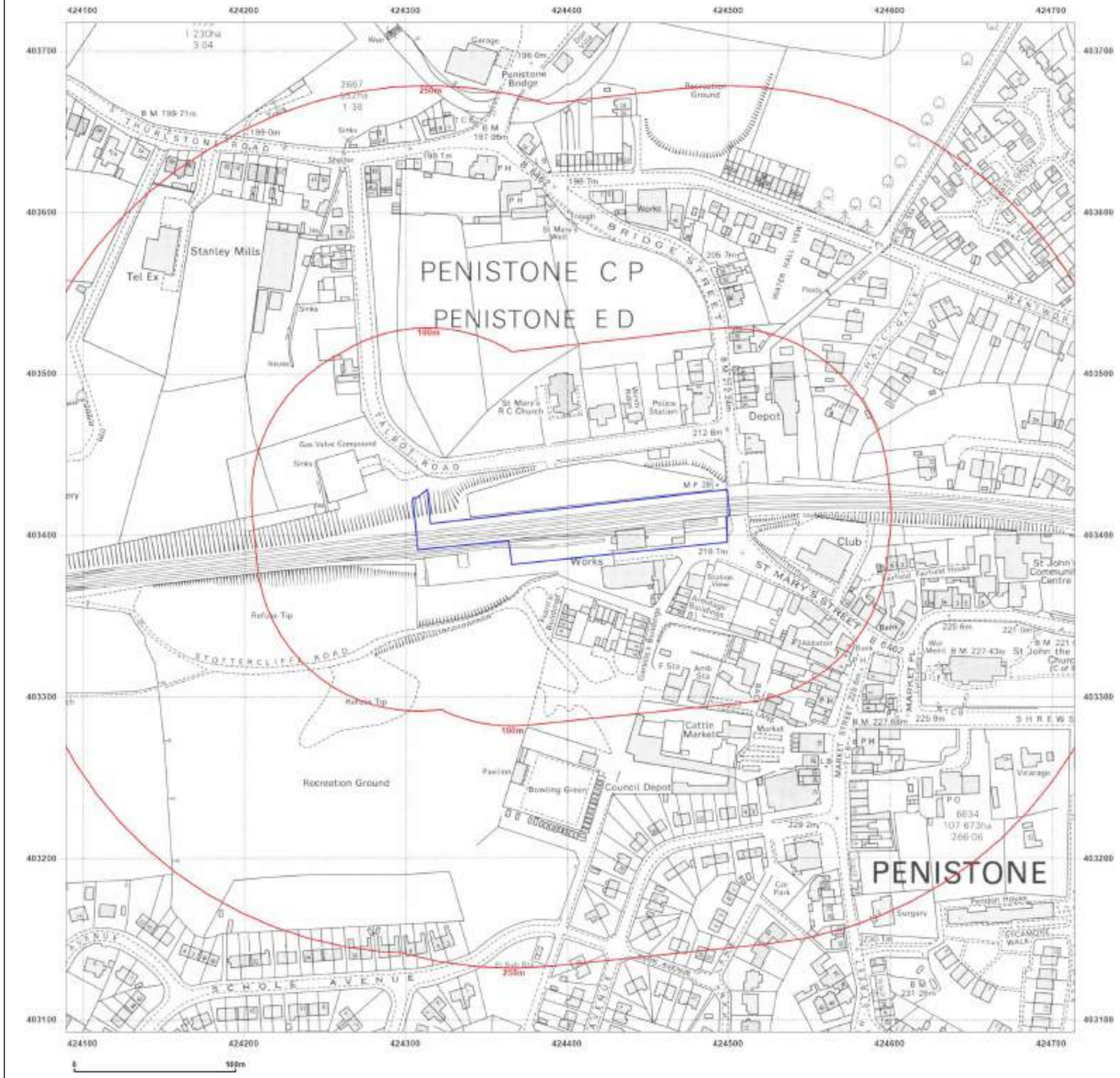

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Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

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

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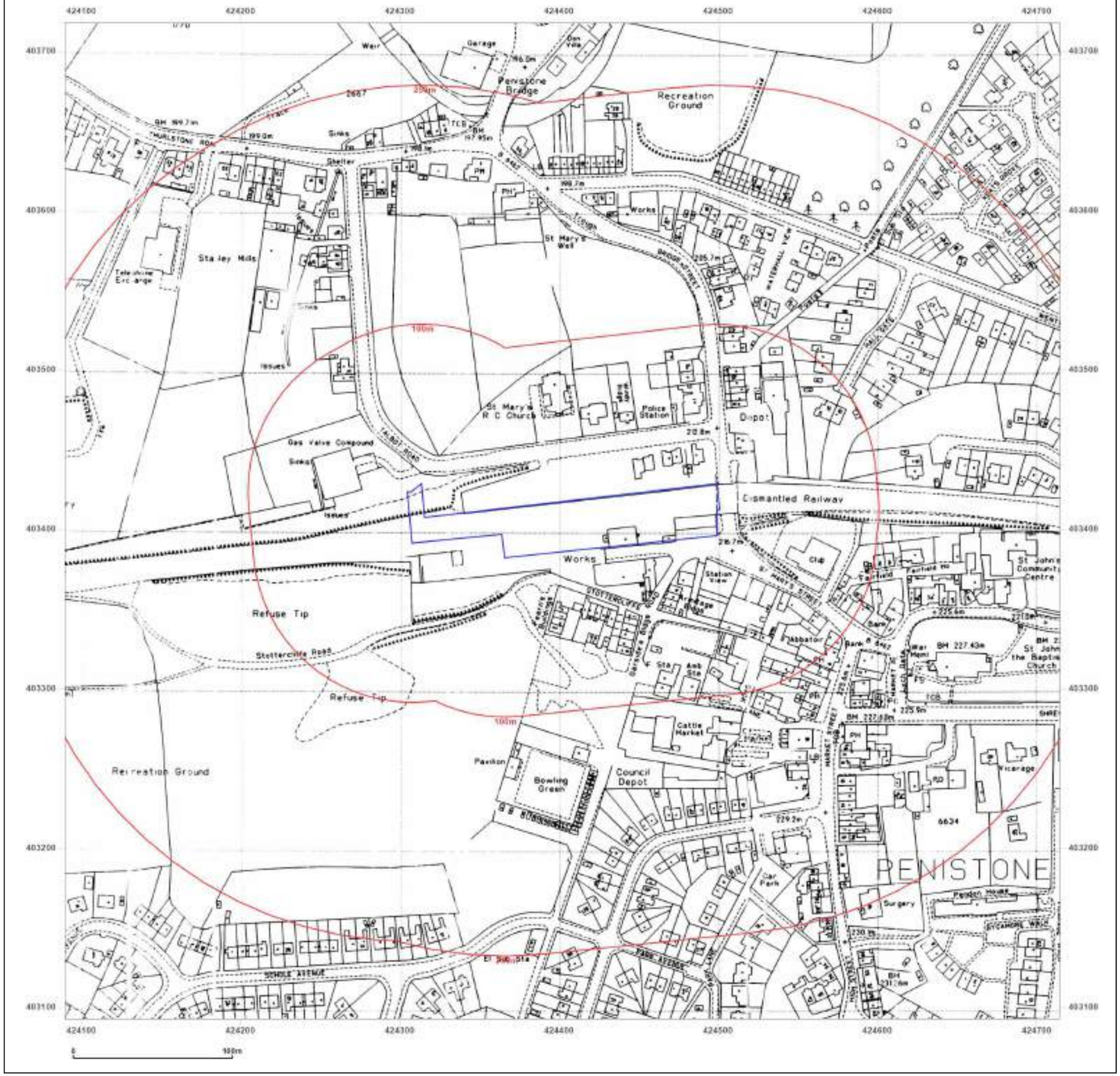

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1992**

Scale: 1:2,500

Printed at: 1:2,500

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

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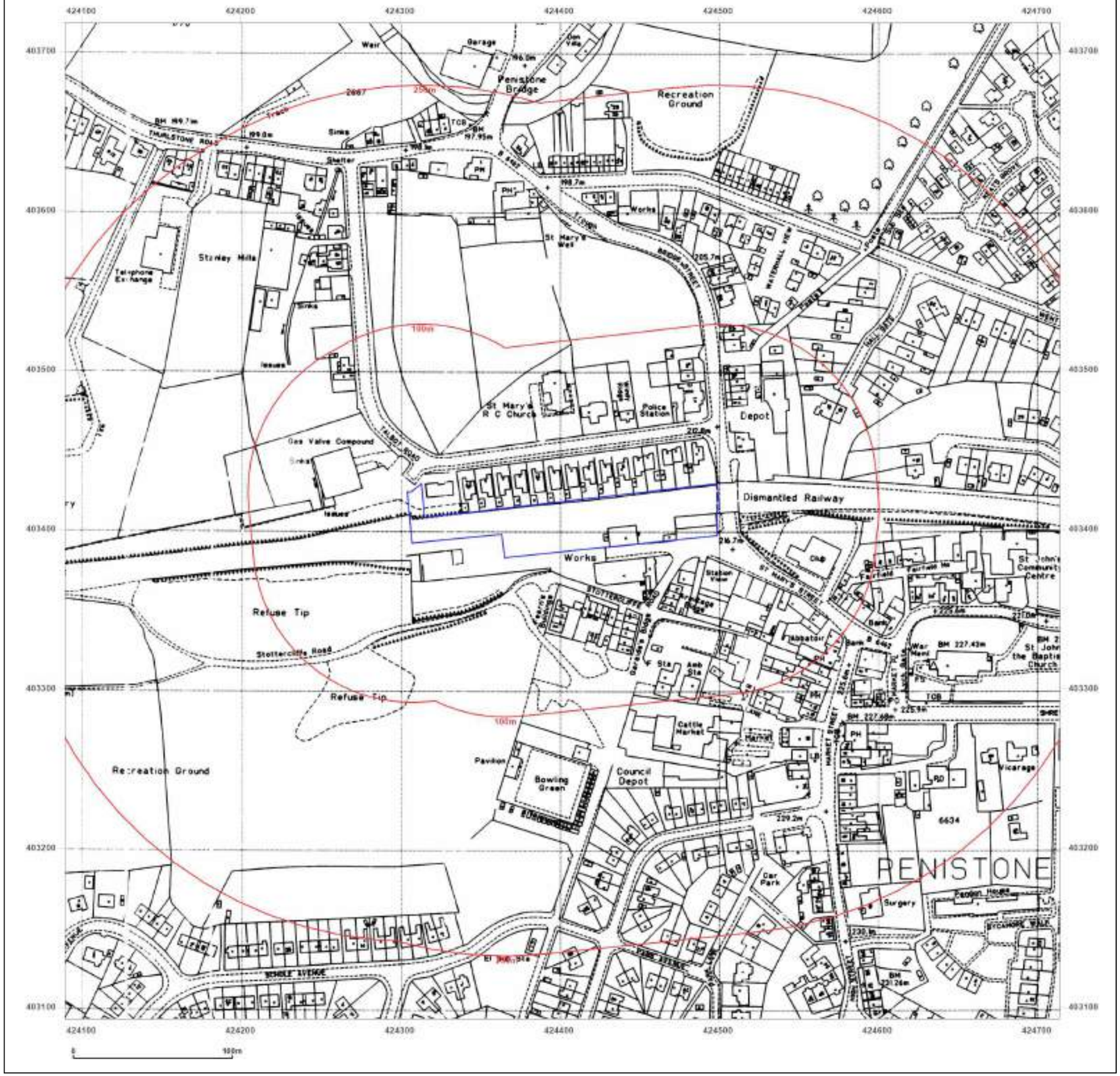

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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

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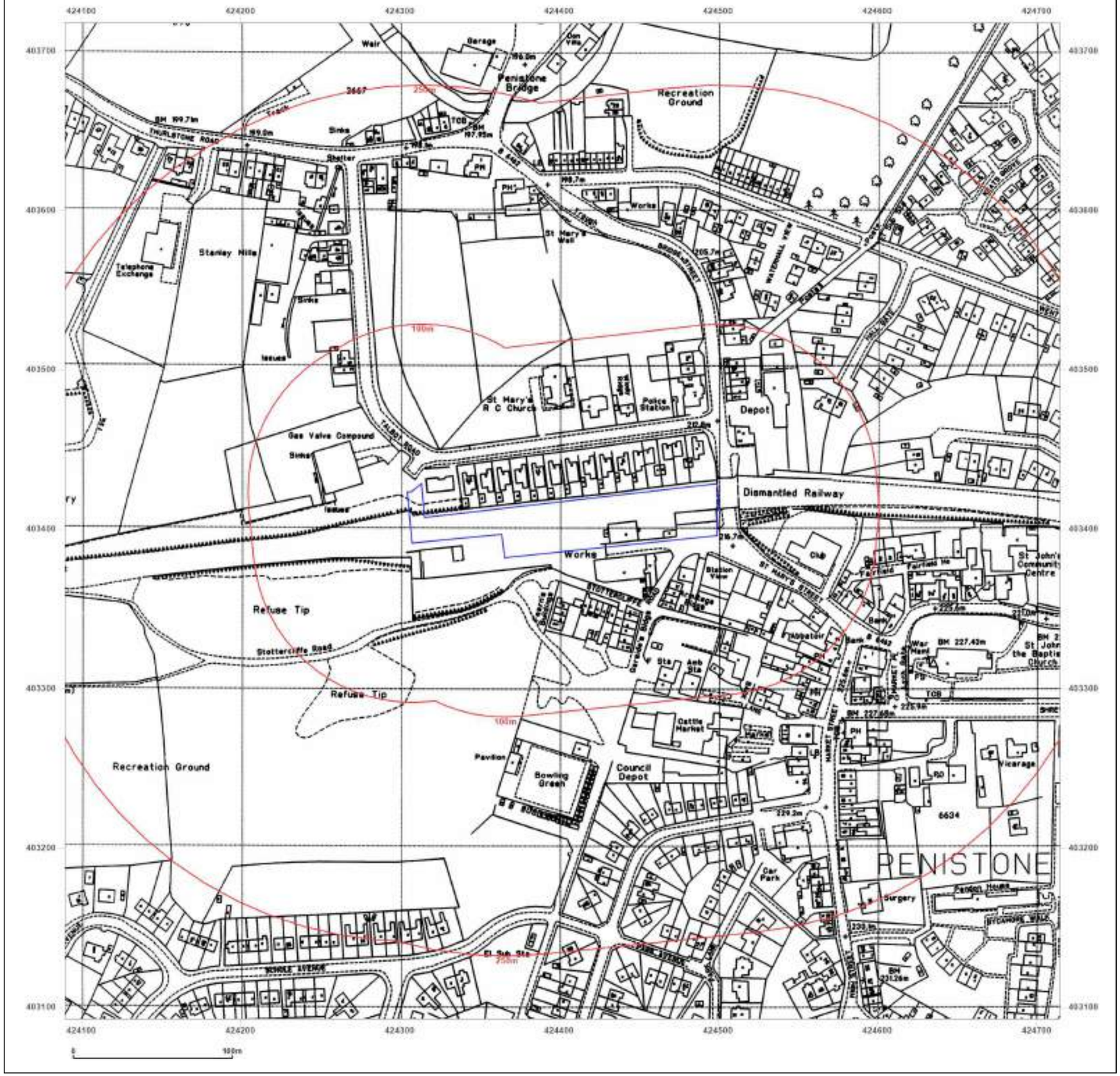

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Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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

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Site Details:

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

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

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2003

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Production date: 14 August 2024

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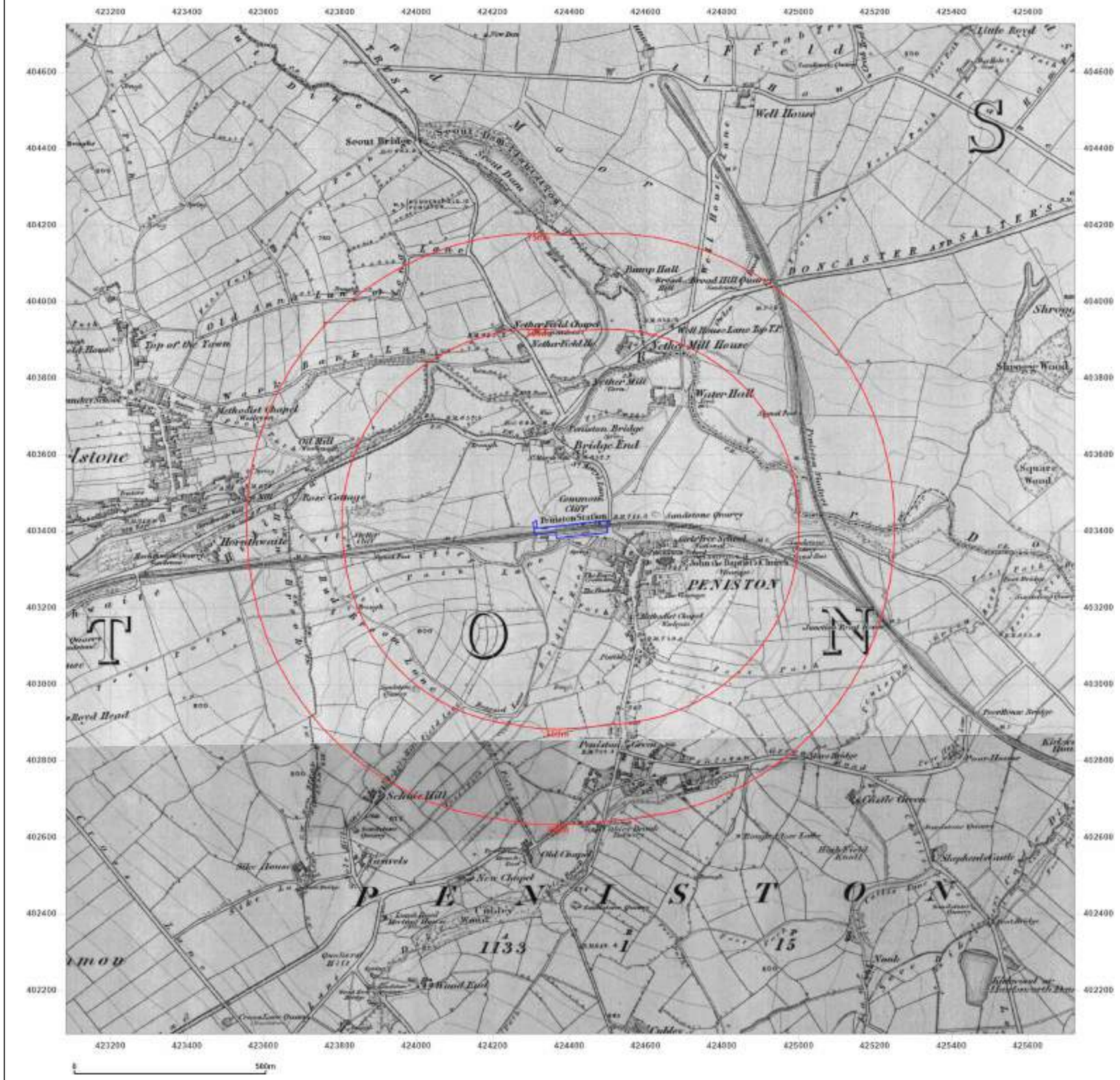

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

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

N
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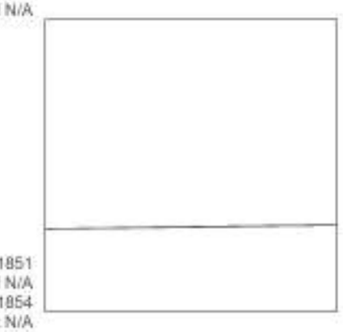
Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A



Surveyed 1851
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

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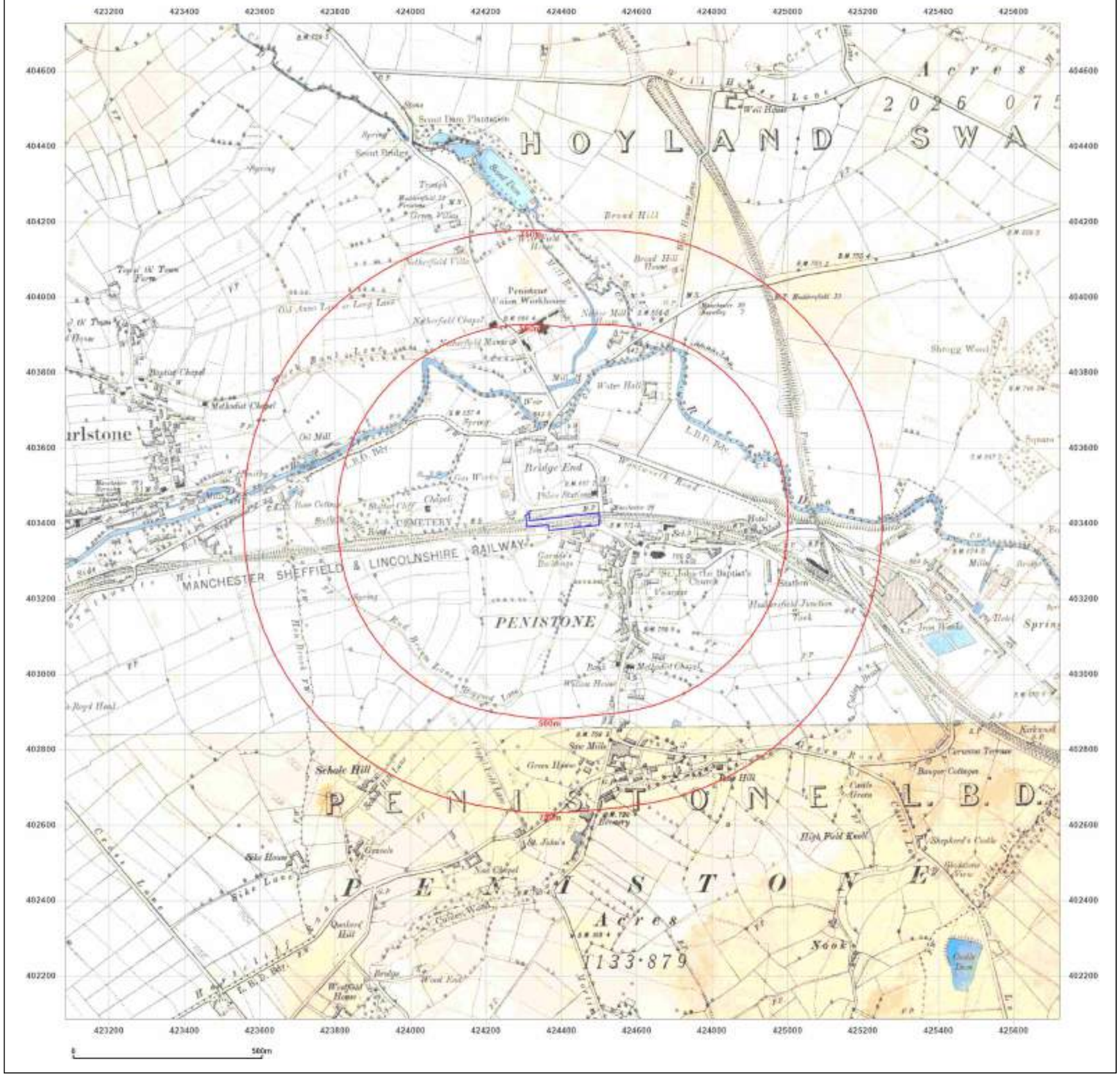

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6EB

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Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: County Series

Map date: **1891**

Scale: 1:10,560

Printed at: 1:10,560

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

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

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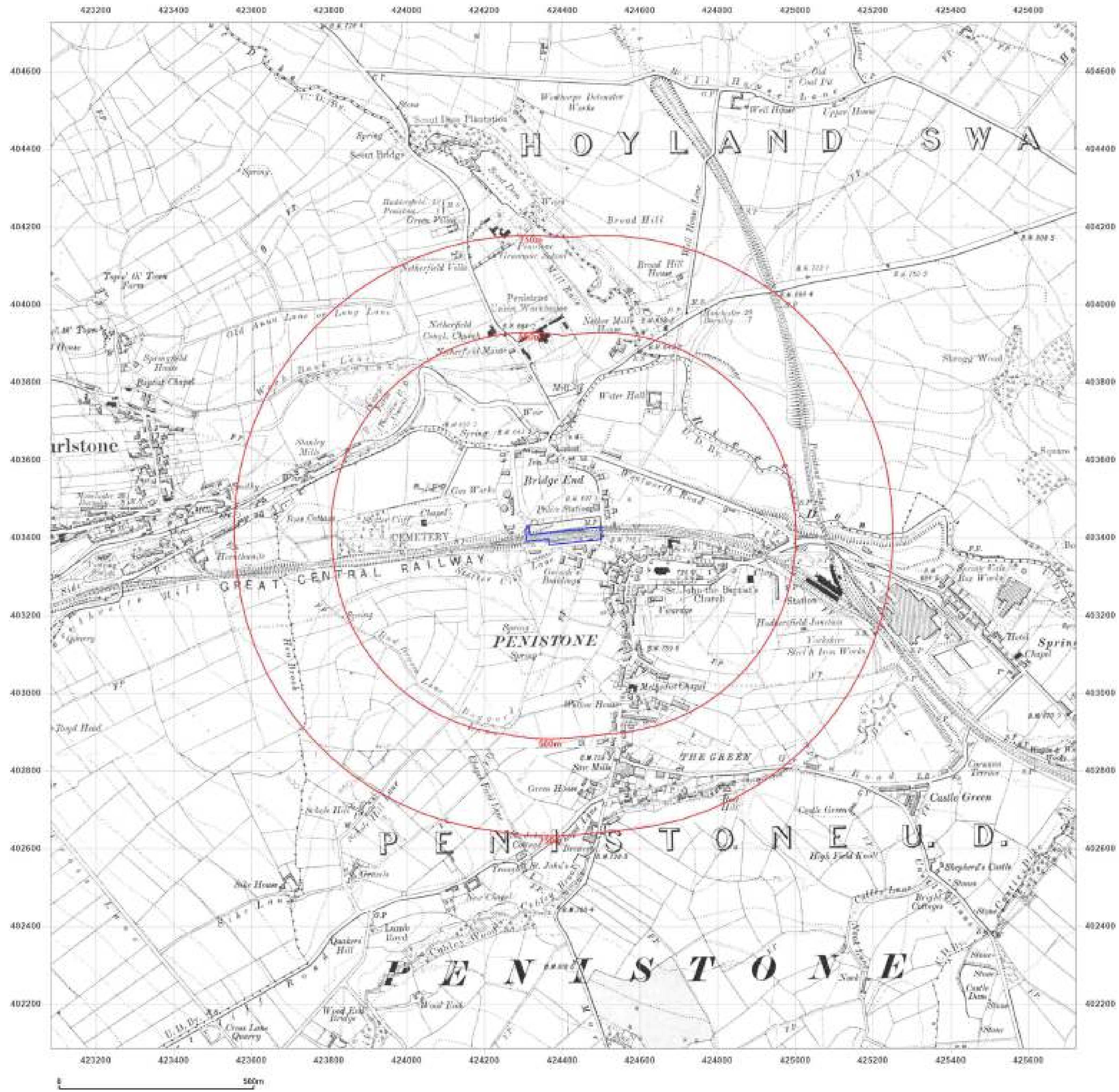

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PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
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Grid Ref: 424402, 403405

Map Name: County Series

Map date: **1903-1904**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1892
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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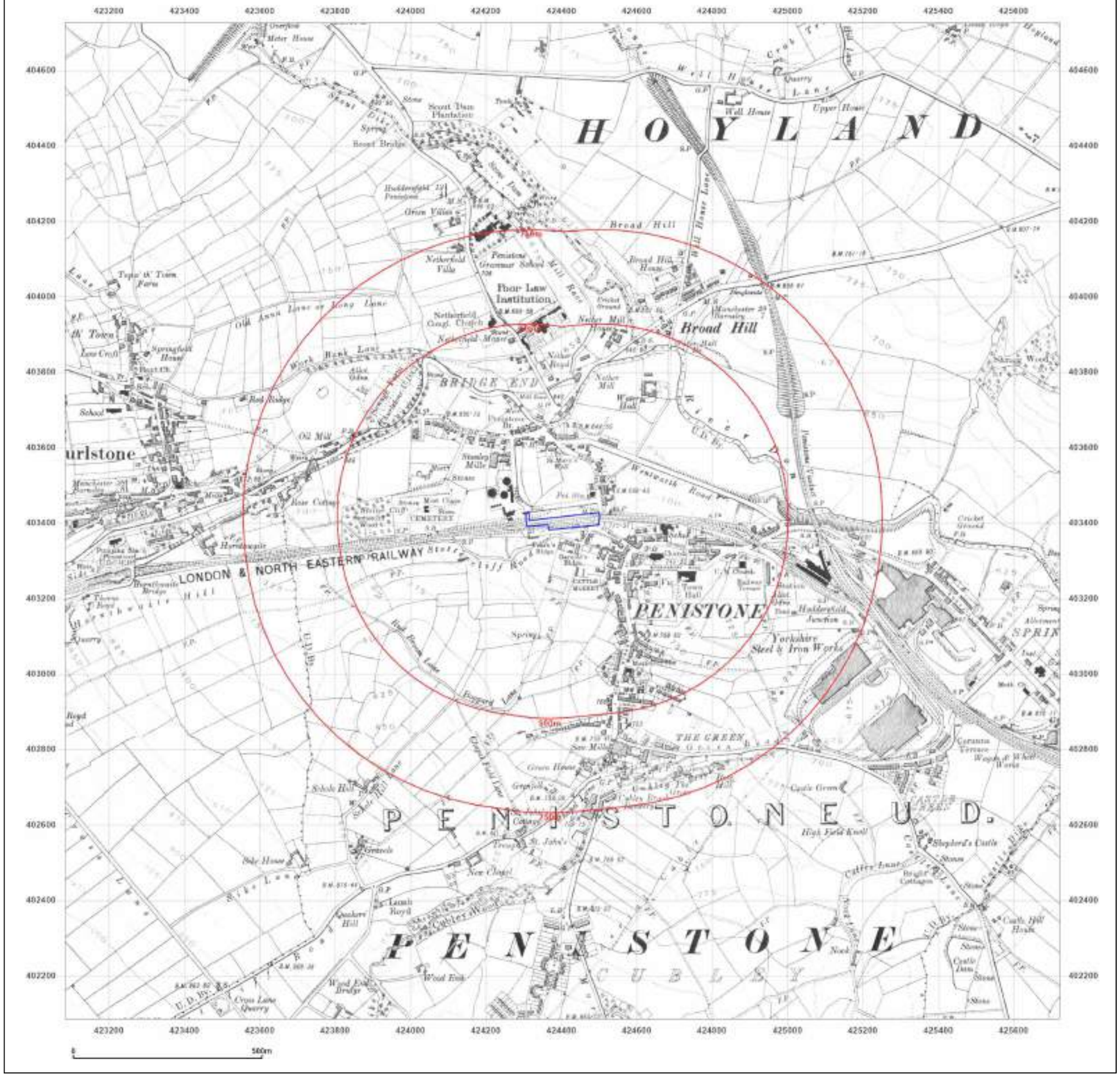

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6EB

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Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: County Series

Map date: **1929**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1851
Revised 1929
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1929
Edition N/A
Copyright N/A
Levelled N/A

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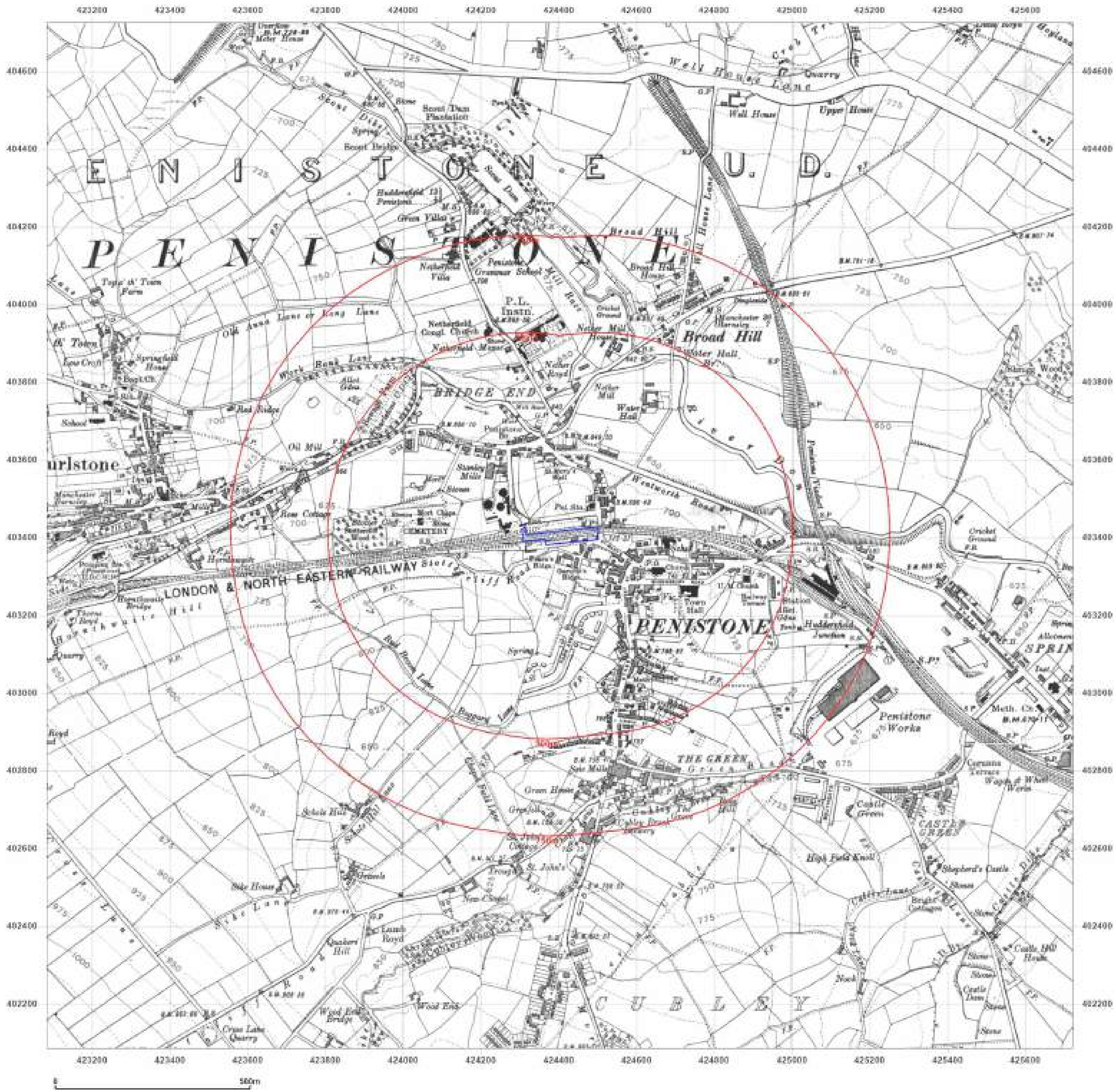

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Site Details:

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Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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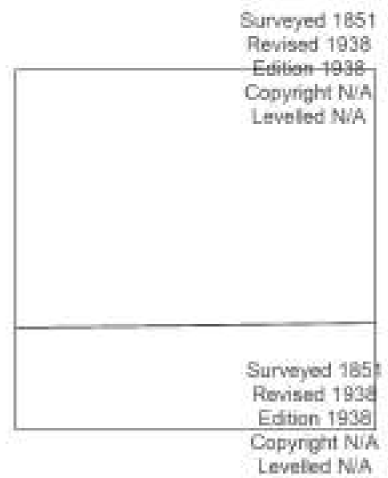

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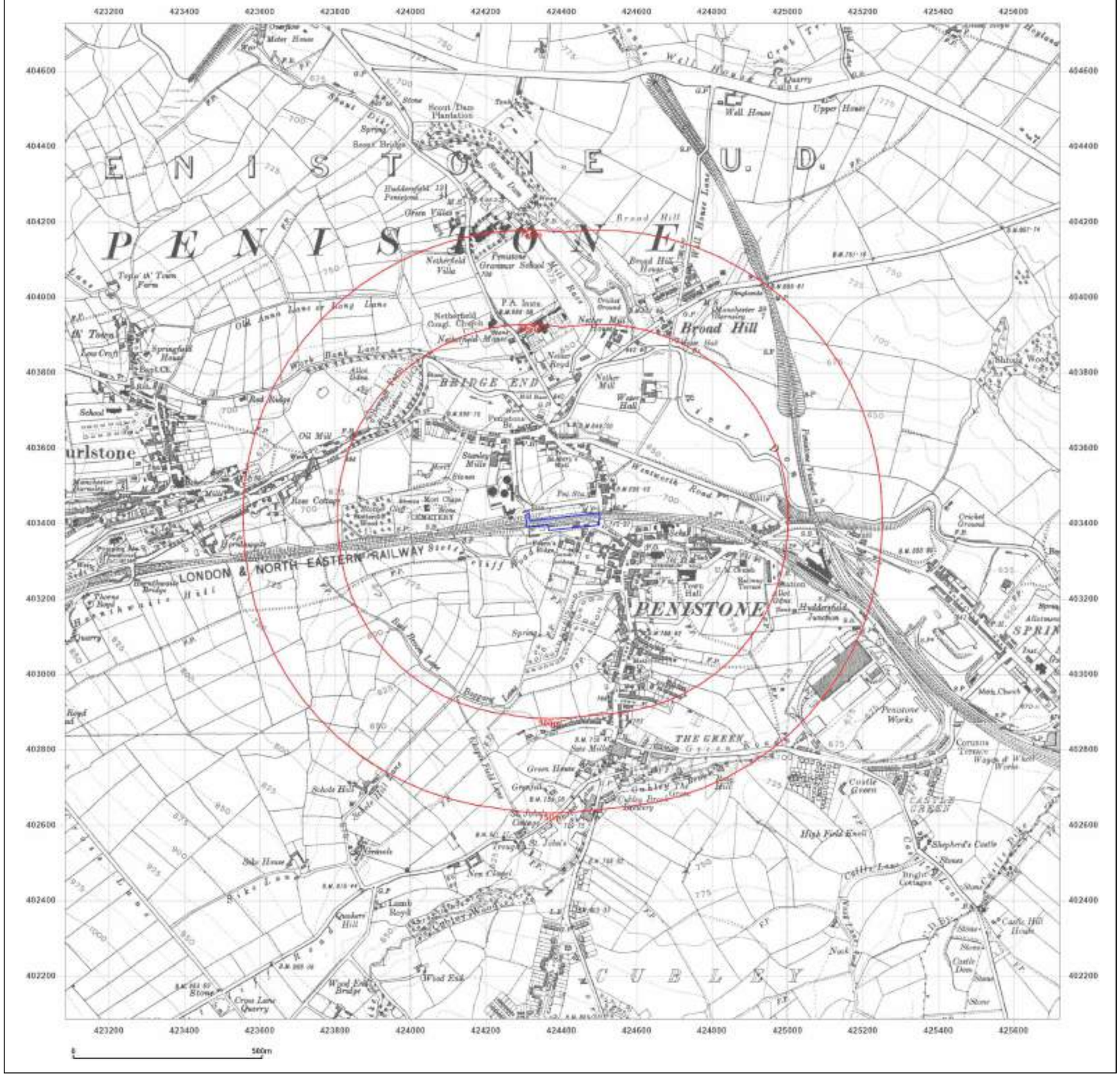

Groundsure INSIGHTS

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6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
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Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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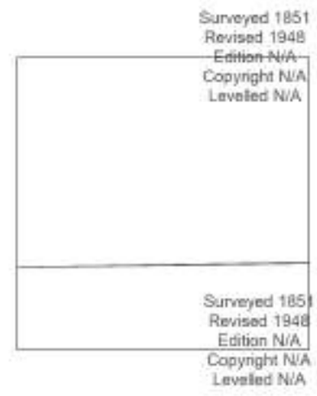

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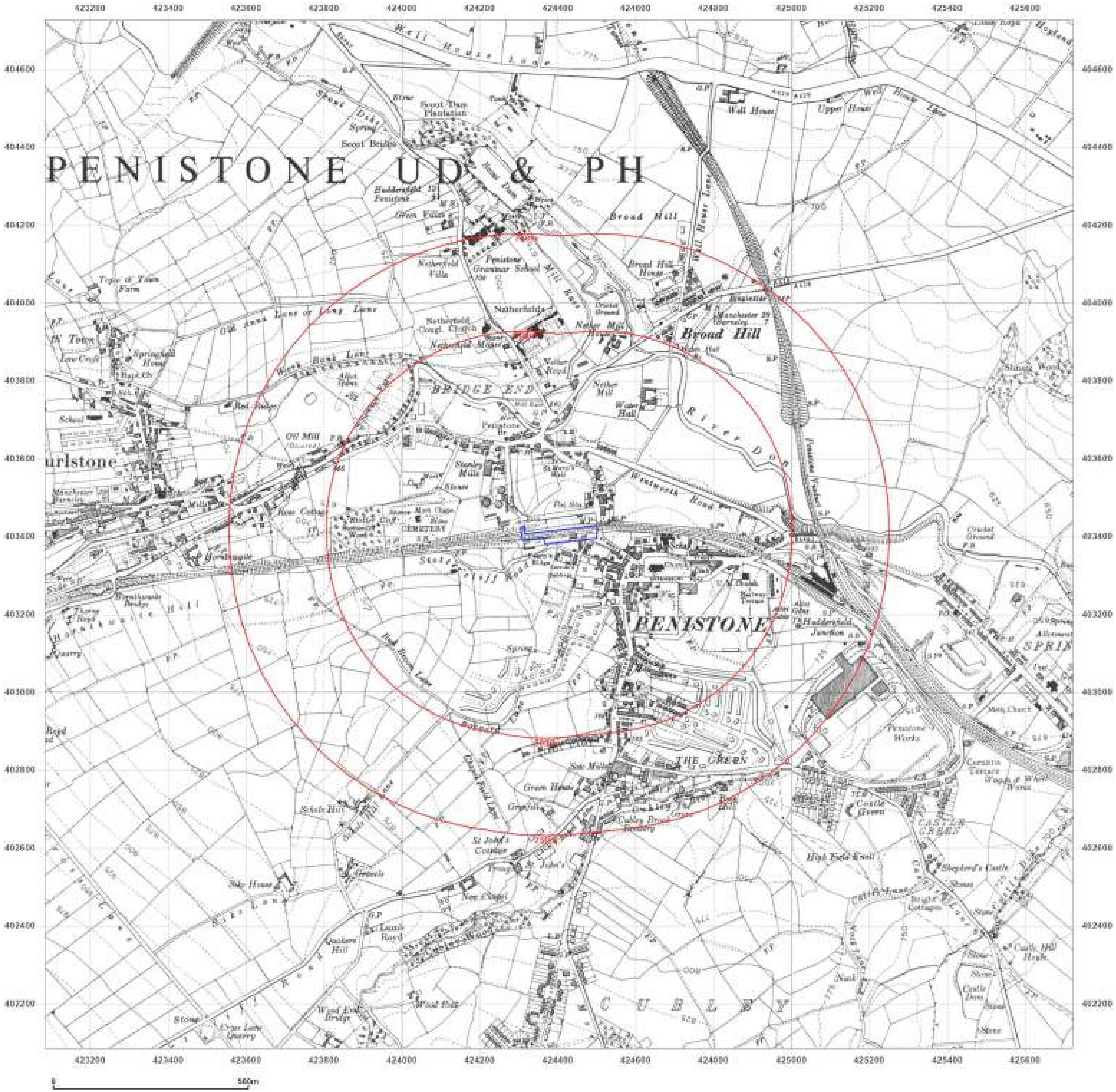

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PENISTONE, BARNSLEY, S36
6EB

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Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: Provisional

Map date: **1951**

Scale: 1:10,560

Printed at: 1:10,560

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

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

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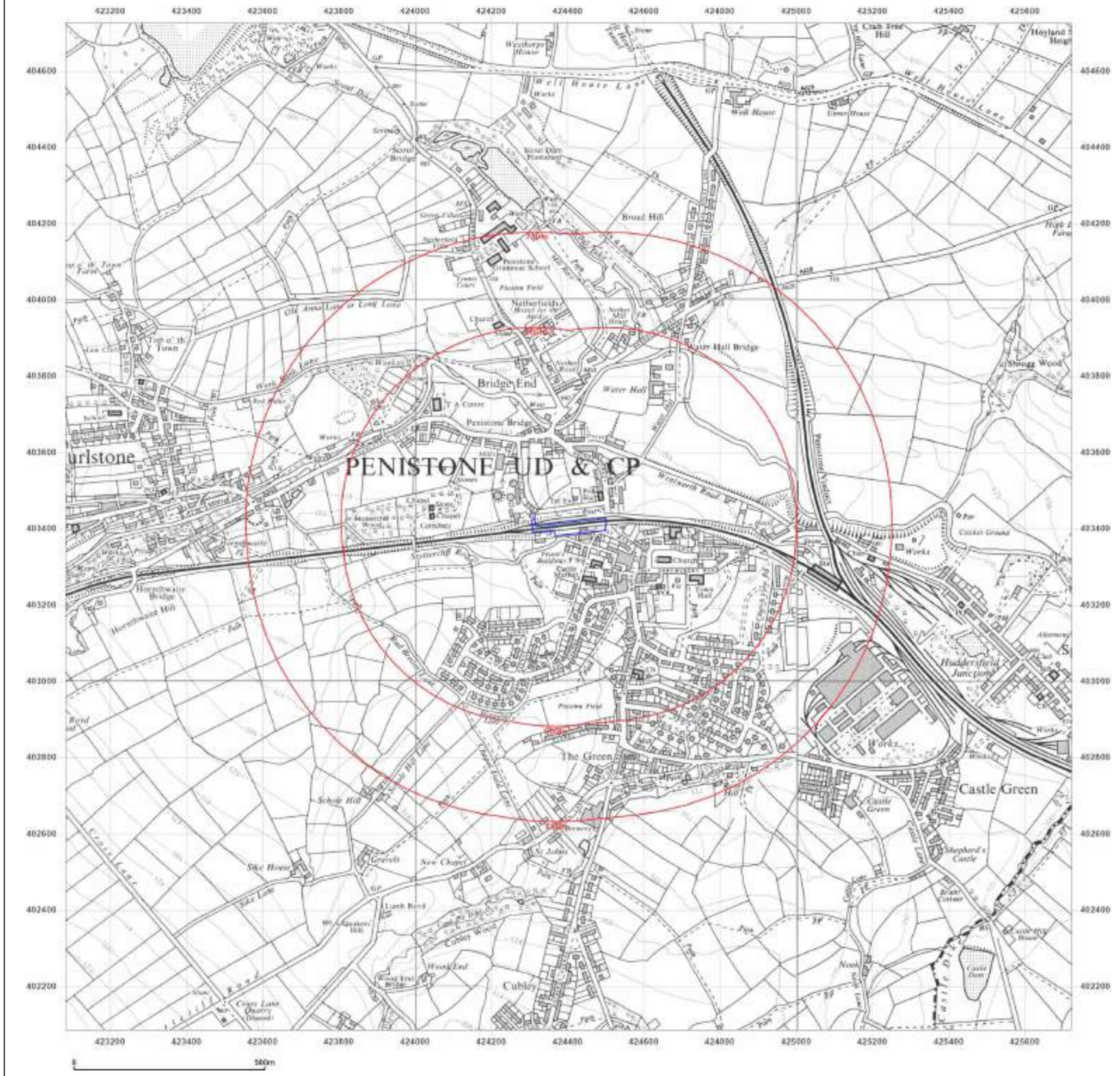

Groundsure INSIGHTS

Site Details:

STOTTERCLIFFE ROAD,
PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: Provisional
Map date: **1965-1967**
Scale: 1:10,560
Printed at: 1:10,560

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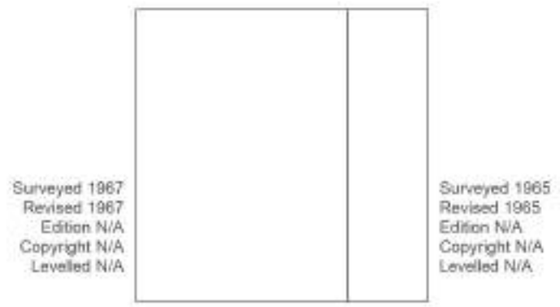

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Production date: 14 August 2024

Map legend available at:
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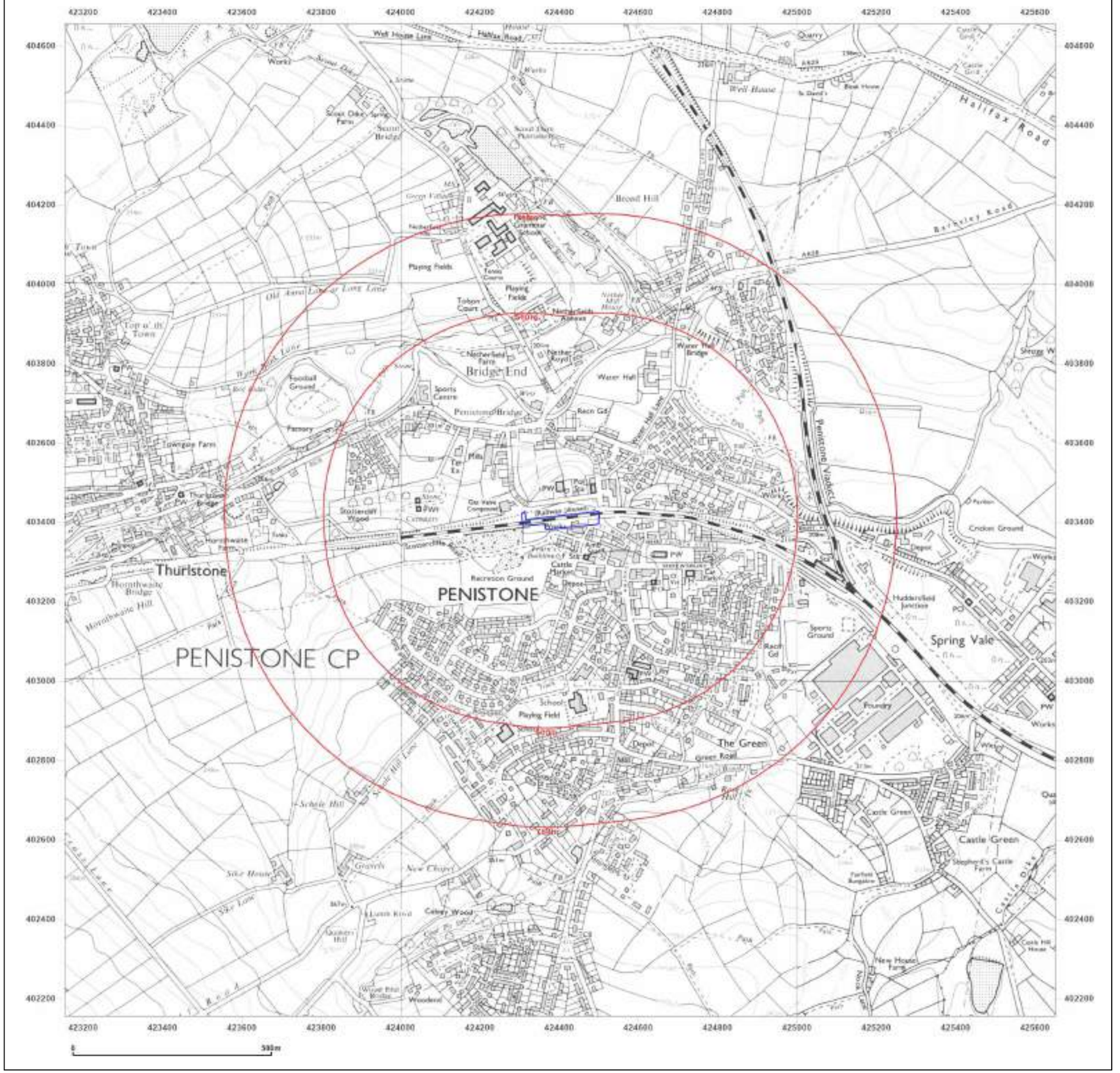

Site Details:

STOTTERCLIFFE ROAD,
PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **1987**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1984
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1984
Revised 1987
Edition N/A
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Map legend available at:
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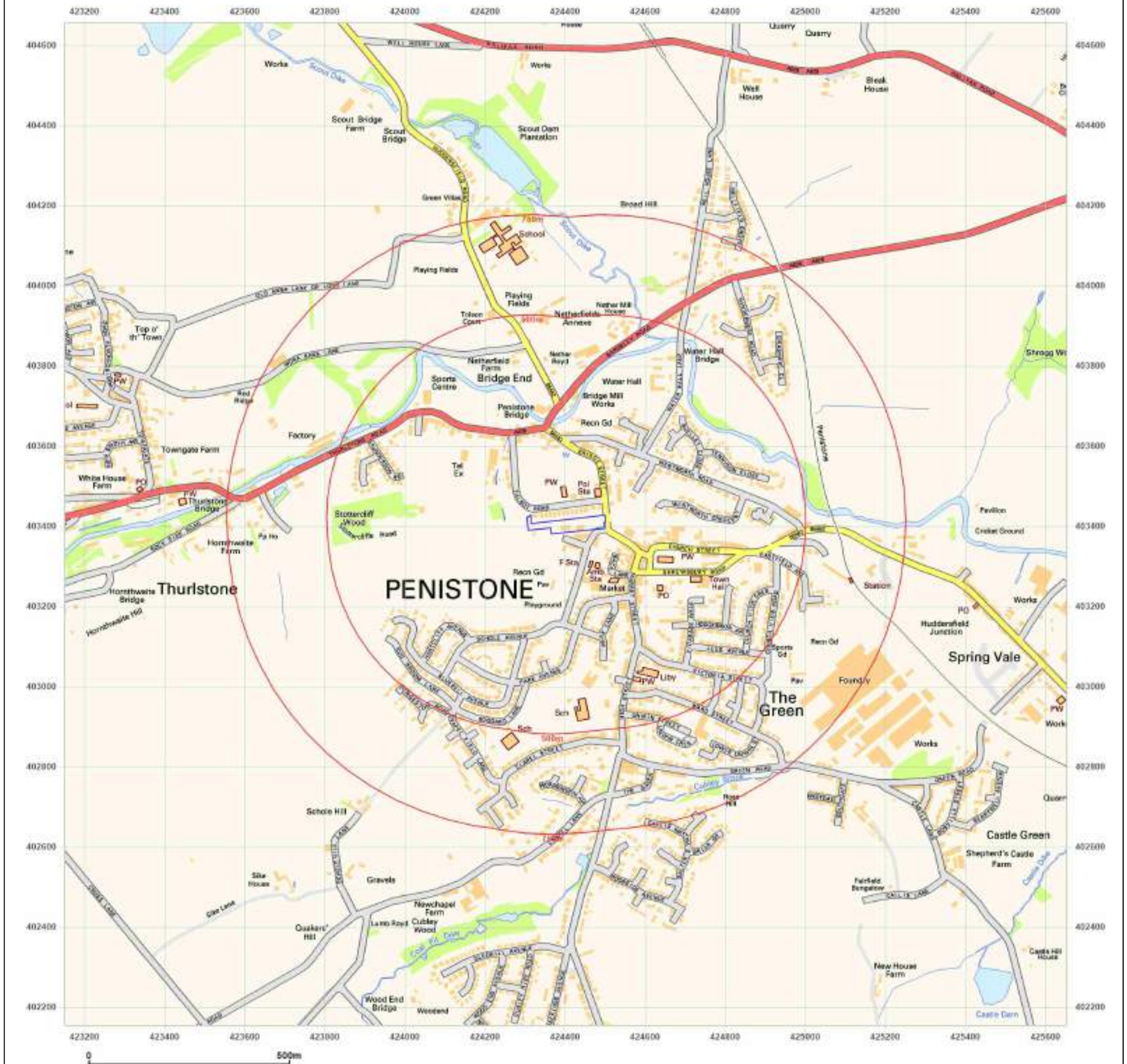

Groundsure INSIGHTS

Site Details:

STOTTERCLIFFE ROAD,
PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

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Production date: 14 August 2024

Map legend available at:
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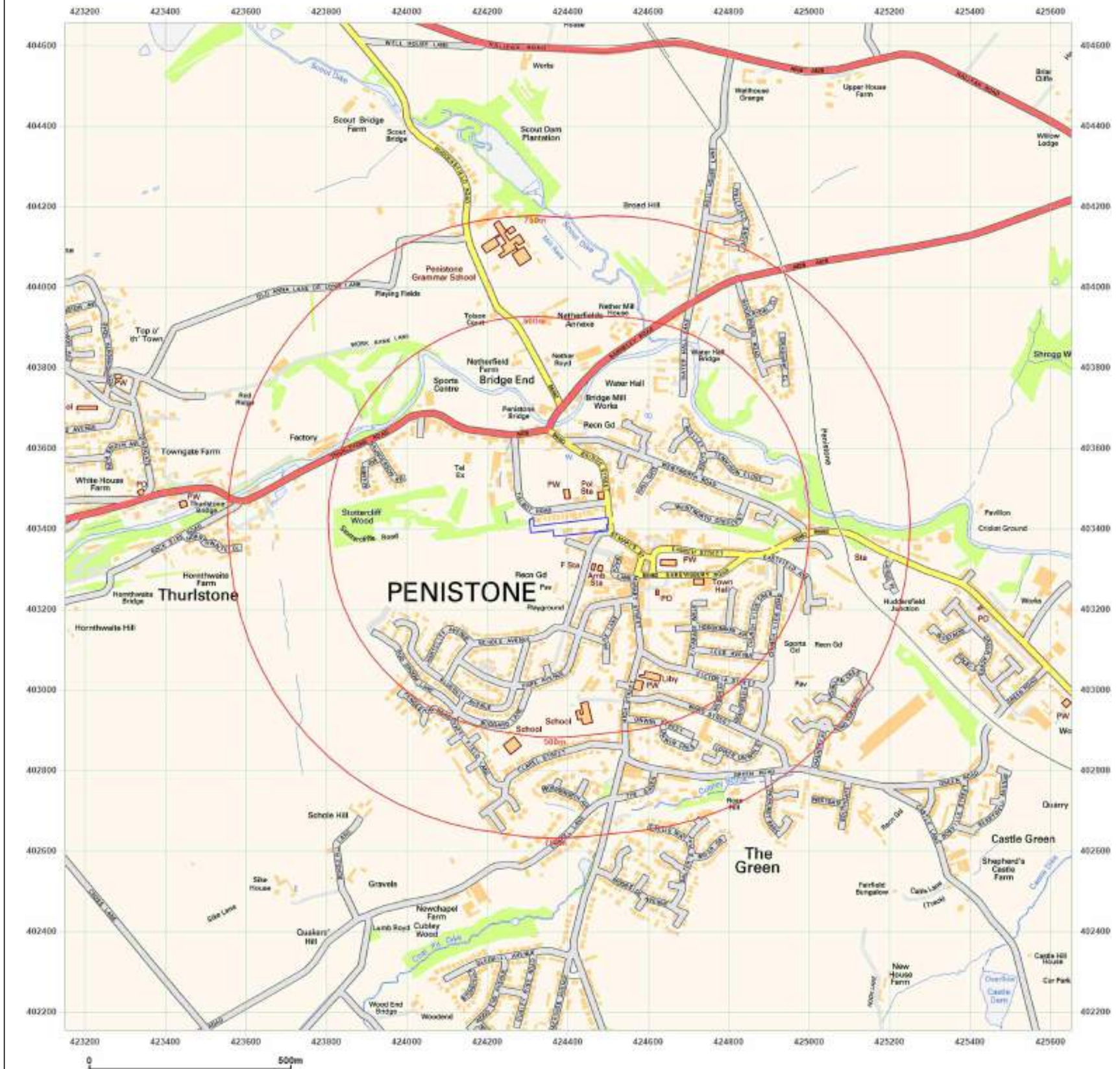

Groundsure INSIGHTS

Site Details:

STOTTERCLIFFE ROAD,
PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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Production date: 14 August 2024

Map legend available at:
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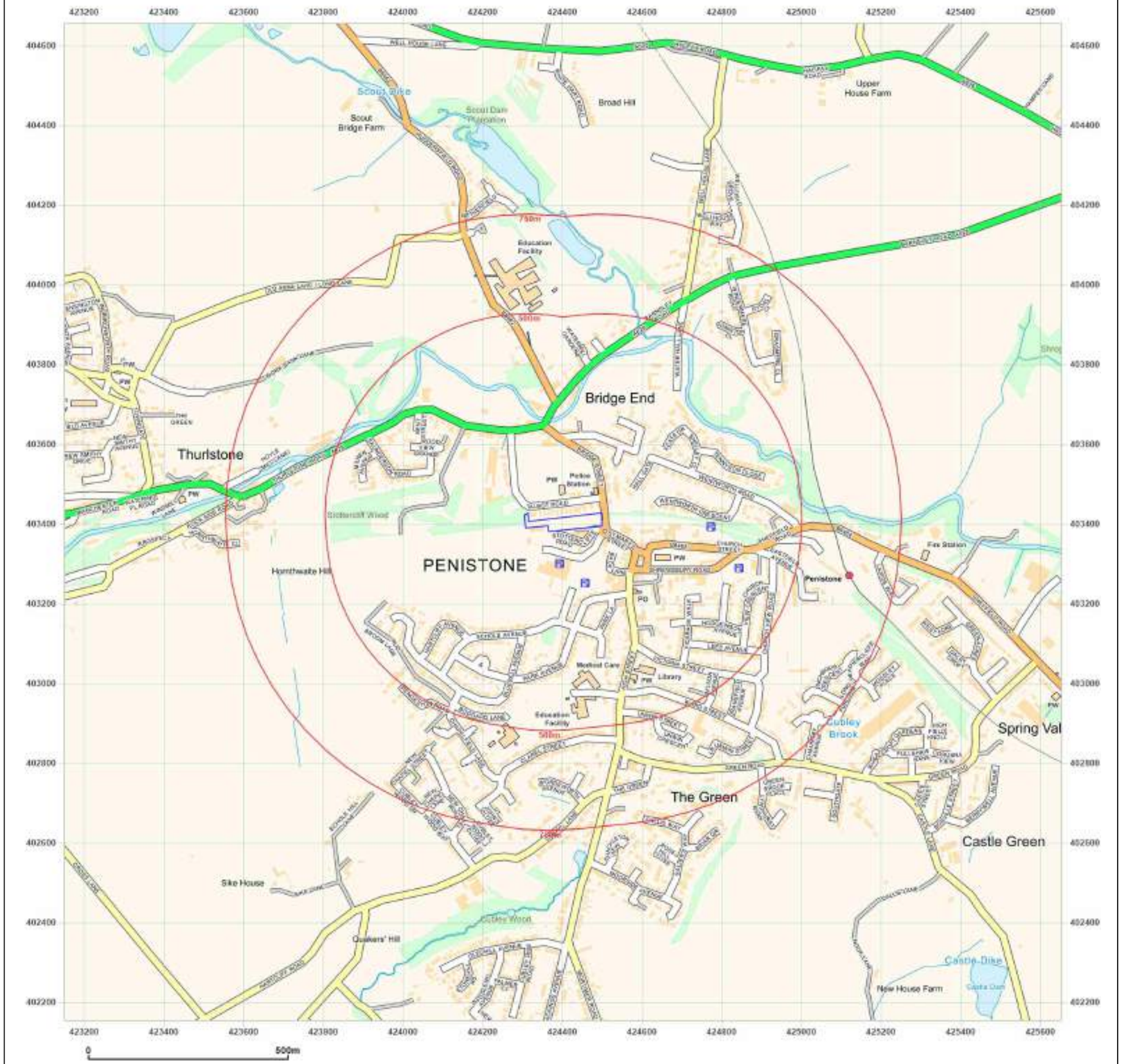

Groundsure INSIGHTS

Site Details:

STOTTERCLIFFE ROAD,
PENISTONE, BARNSLEY, S36
6EB

Client Ref: C3669_23_E_5578_PO-3026
Report Ref: GS-3DB-TEY-T5T-QI8
Grid Ref: 424402, 403405

Map Name: National Grid

Map date: **2024**

Scale: 1:10,000

Printed at: 1:10,000

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Powered by OS

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

Production date: 14 August 2024

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

Appendix 3

Groundsure Reports

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

STOTTERCLIFFE ROAD, PENISTONE, BARNSLEY, S36 6EB

Order Details

Date: 14/08/2024

Your ref: C3669_23_E_5578_PO-3026

Our Ref: GS-C5O-DGP-TM5-LFC

Site Details

Location: 424431 403403

Area: 0.54 ha

Authority: Barnsley Metropolitan Borough Council ↗

Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan p.14 >

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	15	14	40	44	-
20 >	1.2 >	Historical tanks >	0	2	6	2	-
20 >	1.3 >	Historical energy features >	0	2	12	28	-
22	1.4	Historical petrol stations	0	0	0	0	-
22 >	1.5 >	Historical garages >	0	3	5	0	-
23	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
24 >	2.1 >	Historical industrial land uses >	17	17	50	57	-
30 >	2.2 >	Historical tanks >	0	2	6	2	-
30 >	2.3 >	Historical energy features >	0	2	19	43	-
33	2.4	Historical petrol stations	0	0	0	0	-
33 >	2.5 >	Historical garages >	0	4	8	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35 >	3.2 >	Historical landfill (BGS records) >	0	0	1	0	-
36 >	3.3 >	Historical landfill (LA/mapping records) >	0	1	1	0	-
36 >	3.4 >	Historical landfill (EA/NRW records) >	1	0	0	3	-
37	3.5	Historical waste sites	0	0	0	0	-
37	3.6	Licensed waste sites	0	0	0	0	-
38 >	3.7 >	Waste exemptions >	0	4	3	3	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	4.1 >	Recent industrial land uses >	1	5	17	-	-
41 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
41	4.3	Electricity cables	0	0	0	0	-
42	4.4	Gas pipelines	0	0	0	0	-
42	4.5	Sites determined as Contaminated Land	0	0	0	0	-

42	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
42	4.7	Regulated explosive sites	0	0	0	0	-
42	4.8	Hazardous substance storage/usage	0	0	0	0	-
43	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
43	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
43 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	0	1	-
43	4.12	Radioactive Substance Authorisations	0	0	0	0	-
44 >	**4.13 >**	**Licensed Discharges to controlled waters >**	0	0	0	18	-
47	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
47	4.15	Pollutant release to public sewer	0	0	0	0	-
47	4.16	List 1 Dangerous Substances	0	0	0	0	-
47	4.17	List 2 Dangerous Substances	0	0	0	0	-
47 >	**4.18 >**	**Pollution Incidents (EA/NRW) >**	0	0	5	6	-
49	4.19	Pollution inventory substances	0	0	0	0	-
49	4.20	Pollution inventory waste transfers	0	0	0	0	-
49	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
50 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
51 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
53 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
54	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
54	5.5	Groundwater vulnerability- local information	None (within 0m)				
55 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	7
57 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	2
58	5.8	Potable abstractions	0	0	0	0	0
58	5.9	Source Protection Zones	0	0	0	0	-
58	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
59 >	**6.1 >**	**Water Network (OS MasterMap) >**	0	0	8	-	-

60 >	6.2 >	Surface water features >	0	0	3	-	-
60 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
61 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
61 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
62	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
63 >	7.2 >	Historical Flood Events >	0	0	6	-	-
63	7.3	Flood Defences	0	0	0	-	-
64	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
64	7.5	Flood Storage Areas	0	0	0	-	-
65	7.6	Flood Zone 2	None (within 50m)				
65	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
66 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
68 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
69	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
70	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
70	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
70	10.4	Special Protection Areas (SPA)	0	0	0	0	0
70	10.5	National Nature Reserves (NNR)	0	0	0	0	0
71	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
71 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	4
71	10.8	Biosphere Reserves	0	0	0	0	0
72	10.9	Forest Parks	0	0	0	0	0
72	10.10	Marine Conservation Zones	0	0	0	0	0
72 >	10.11 >	Green Belt >	0	0	1	0	0
72	10.12	Proposed Ramsar sites	0	0	0	0	0

73	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
73	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
73	10.15	Nitrate Sensitive Areas	0	0	0	0	0
73 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	2
75 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
76	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
77	11.1	World Heritage Sites	0	0	0	-	-
78	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
78	11.3	National Parks	0	0	0	-	-
78 >	11.4 >	Listed Buildings >	1	0	15	-	-
79 >	11.5 >	Conservation Areas >	1	0	0	-	-
80	11.6	Scheduled Ancient Monuments	0	0	0	-	-
80	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
81 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
82	12.2	Open Access Land	0	0	0	-	-
82	12.3	Tree Felling Licences	0	0	0	-	-
82	12.4	Environmental Stewardship Schemes	0	0	0	-	-
83	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
84 >	13.1 >	Priority Habitat Inventory >	1	2	10	-	-
85	13.2	Habitat Networks	0	0	0	-	-
85	13.3	Open Mosaic Habitat	0	0	0	-	-
85	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
87 >	14.1 >	10k Availability >	Identified (within 500m)				
88 >	14.2 >	Artificial and made ground (10k) >	1	0	2	6	-
90 >	14.3 >	Superficial geology (10k) >	0	0	2	1	-

91	14.4	Landslip (10k)	0	0	0	0	-
92 >	14.5 >	Bedrock geology (10k) >	2	0	5	22	-
94 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	8	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	15.1 >	50k Availability >	Identified (within 500m)				
96 >	15.2 >	Artificial and made ground (50k) >	0	0	0	2	-
97	15.3	Artificial ground permeability (50k)	0	0	-	-	-
98 >	15.4 >	Superficial geology (50k) >	0	0	2	1	-
99	15.5	Superficial permeability (50k)	None (within 50m)				
99	15.6	Landslip (50k)	0	0	0	0	-
99	15.7	Landslip permeability (50k)	None (within 50m)				
100 >	15.8 >	Bedrock geology (50k) >	2	0	5	19	-
102 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
102 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	8	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
103	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
104 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
105 >	17.2 >	Running sands >	Negligible (within 50m)				
106 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
107 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
108 >	17.5 >	Landslides >	Low (within 50m)				
110 >	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
112 >	18.1 >	BritPits >	0	0	1	1	-
113 >	18.2 >	Surface ground workings >	0	1	27	-	-
114	18.3	Underground workings	0	0	0	0	0
114	18.4	Underground mining extents	0	0	0	0	-
115	18.5	Historical Mineral Planning Areas	0	0	0	0	-

115	18.6	Non-coal mining	0	0	0	0	0
115	18.7	JPB mining areas	None (within 0m)				
115	18.8	The Coal Authority non-coal mining	0	0	0	0	-
116	18.9	Researched mining	0	0	0	0	-
116	18.10	Mining record office plans	0	0	0	0	-
116	18.11	BGS mine plans	0	0	0	0	-
116 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
117	18.13	Brine areas	None (within 0m)				
117	18.14	Gypsum areas	None (within 0m)				
117	18.15	Tin mining	None (within 0m)				
117	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
118	19.1	Natural cavities	0	0	0	0	-
118	19.2	Mining cavities	0	0	0	0	0
118	19.3	Reported recent incidents	0	0	0	0	-
118	19.4	Historical incidents	0	0	0	0	-
119	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon >**					
120 >	**20.1 >**	**Radon >**	Less than 1% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
122 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	3	1	-	-	-
122	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
123	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
124	22.1	Underground railways (London)	0	0	0	-	-
124	22.2	Underground railways (Non-London)	0	0	0	-	-
125	22.3	Railway tunnels	0	0	0	-	-
125 >	**22.4 >**	**Historical railway and tunnel features >**	13	0	6	-	-
126	22.5	Royal Mail tunnels	0	0	0	-	-

126 >	22.6 >	Historical railways >	1	1	0	-	-
126	22.7	Railways	0	0	0	-	-
127	22.8	Crossrail 1	0	0	0	0	-
127	22.9	Crossrail 2	0	0	0	0	-
127	22.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 30/05/2021

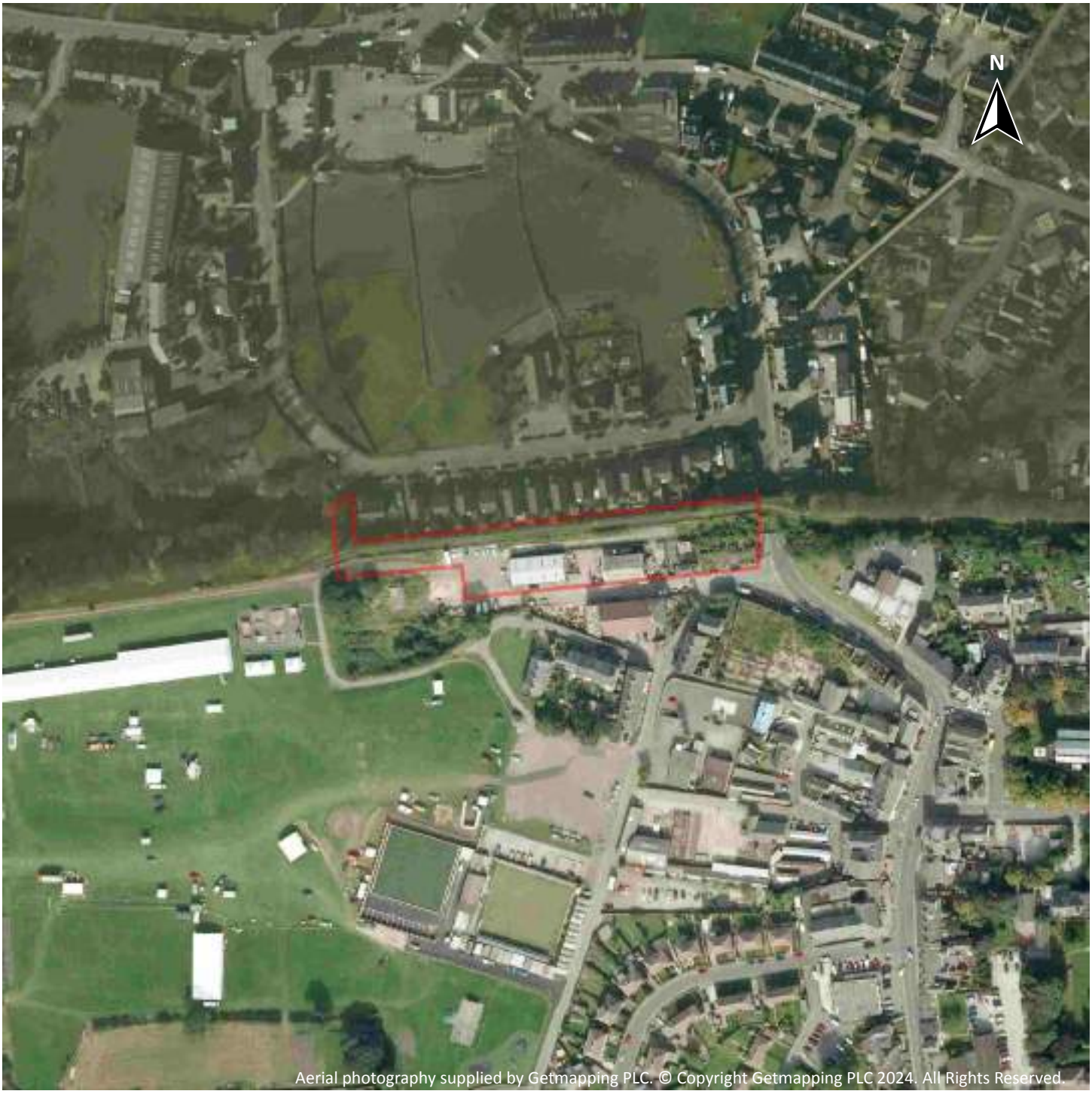
Site Area: 0.54ha

Recent site history - 2018 aerial photograph

Capture Date: 27/06/2018

Site Area: 0.54ha

Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.54ha

Recent site history - 2009 aerial photograph

Capture Date: 11/09/2009

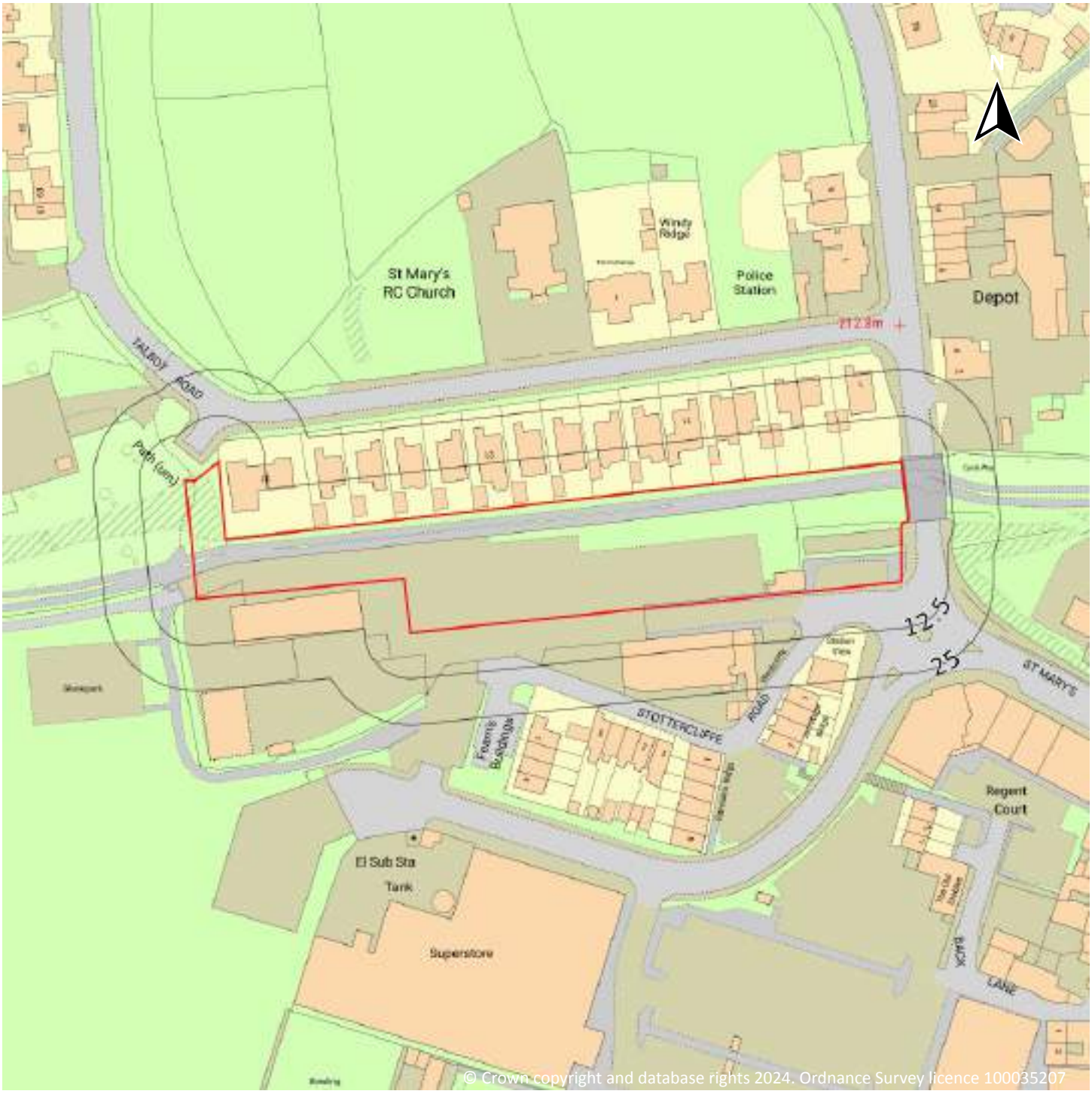
Site Area: 0.54ha

Recent site history - 1999 aerial photograph

Capture Date: 10/07/1999

Site Area: 0.54ha

OS MasterMap site plan



Site Area: 0.54ha

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	113

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

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

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Railway Station**	**1850**	**1443245**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Works**	**1987**	**1460709**
A	**On site**	**Railway Building**	**1967**	**1477108**
A	**On site**	**Railway Sidings**	**1929**	**1481871**
A	**On site**	**Railway Buildings**	**1948**	**1484508**
A	**On site**	**Railway Sidings**	**1850**	**1493533**
A	**On site**	**Railway Sidings**	**1938 - 1948**	**1501253**
A	**On site**	**Railway Buildings**	**1938**	**1530318**
A	**On site**	**Railway Buildings**	**1951**	**1532643**
A	**On site**	**Railway Sidings**	**1951**	**1540876**
A	**On site**	**Railway Sidings**	**1903**	**1551815**
B	**On site**	**Unspecified Mills**	**1938**	**1505008**
B	**On site**	**Unspecified Mills**	**1929**	**1539639**
B	**On site**	**Unspecified Mills**	**1951 - 1967**	**1563044**
C	**On site**	**Railway Sidings**	**1967**	**1561541**
B	4m W	Unspecified Commercial/Industrial	1948	1432011
1	5m W	Refuse Heaps	1987	1432593
B	17m W	Gas Works	1891 - 1903	1494411
B	28m W	Gas Valve Compound	1987	1465921
B	33m W	Railway Building	1948	1515663
B	33m W	Railway Building	1903	1569267
D	35m SE	Ambulance Station	1987	1432833
E	37m NE	Police Station	1929	1567074
E	39m NE	Police Station	1948	1509061
E	39m NE	Police Station	1903	1515005
E	41m NE	Police Station	1891	1521759
E	43m NE	Police Station	1938	1533497
2	45m N	Telecomm Exchange	1967	1442482
E	47m NE	Police Station	1951 - 1987	1512994

ID	Location	Land use	Dates present	Group ID
D	53m SE	Fire Station	1967 - 1987	1552161
B	61m NW	Unspecified Mills	1987	1545344
B	65m NW	Gasometer	1891 - 1903	1572373
B	66m W	Unspecified Tank	1929	1483429
B	67m NW	Unspecified Tank	1948	1573819
B	69m W	Unspecified Tanks	1938	1485273
B	71m NW	Unspecified Tanks	1951 - 1967	1551241
B	71m W	Unspecified Tanks	1951	1443943
C	80m E	Railway Building	1903	1476754
B	90m NW	Gasometer	1891 - 1903	1539586
B	91m W	Unspecified Tank	1948	1558244
B	91m NW	Unspecified Tank	1948	1564218
B	91m NW	Unspecified Tank	1929	1499178
B	93m W	Unspecified Tank	1929	1503707
B	109m NW	Unspecified Mills	1929	1547237
B	112m NW	Unspecified Mills	1948	1504127
C	114m E	Sandstone Quarry	1850	1445016
3	126m S	Unspecified Depot	1987	1445542
4	126m S	Cattle Market	1929	1471449
G	166m W	Cemetery	1891	1555062
G	166m W	Cemetery	1903 - 1929	1538228
G	166m W	Cemetery	1948 - 1951	1562442
G	169m W	Cemetery	1938	1537831
G	171m W	Cemetery	1967	1562821
G	171m W	Cemetery	1987	1569151
H	173m W	Telecomm Exchange	1987	1442483
J	202m N	Unspecified Ground Workings	1929	1439879
J	203m N	Unspecified Pit	1903	1510236

ID	Location	Land use	Dates present	Group ID
J	203m N	Unspecified Pit	1948	1568666
J	207m N	Unspecified Pit	1938	1571040
J	208m N	Unspecified Pit	1967 - 1987	1565663
J	213m N	Unspecified Pit	1951	1514881
K	218m W	Cuttings	1850	1528559
K	220m W	Cuttings	1891	1504244
L	230m W	Railway Building	1903	1476755
N	233m W	Unspecified Ground Workings	1929	1440904
N	235m W	Unspecified Pit	1938	1560865
N	237m W	Unspecified Pit	1948	1496356
H	238m NW	Mortuary	1938 - 1948	1510912
L	248m W	Railway Building	1903	1476753
L	251m W	Railway Buildings	1938	1436224
L	256m W	Cuttings	1967	1531401
K	260m W	Cuttings	1903 - 1929	1526764
L	260m W	Cuttings	1948	1545146
L	261m W	Cuttings	1951	1494875
K	266m W	Cuttings	1938	1565945
P	325m N	Unspecified Mill	1938 - 1948	1530445
P	325m N	Unspecified Mill	1903	1548345
K	327m W	Cuttings	1951 - 1987	1559148
P	330m N	Unspecified Mill	1951 - 1967	1524608
P	338m N	Nether Mill	1929	1454609
K	342m W	Cuttings	1948	1490594
K	343m W	Cuttings	1929	1567217
P	348m N	Unspecified Mill	1891	1570154
P	348m N	Corn Mill	1850	1436655
Q	359m E	Railway Sidings	1929	1539074

ID	Location	Land use	Dates present	Group ID
R	401m E	Unspecified Works	1987	1459934
Q	405m E	Railway Building	1948	1499032
Q	405m E	Railway Building	1903	1575726
T	408m E	Railway Sidings	1891	1493343
K	410m W	Unspecified Pit	1938 - 1951	1558121
U	413m NW	Sewage Farm	1929	1537110
U	414m NW	Sewage Farm	1903	1497114
U	414m NW	Sewage Farm	1948	1572302
V	414m N	Unspecified Workhouse	1891 - 1903	1535681
V	415m N	Unspecified Commercial/Industrial	1948	1431769
U	415m NW	Sewage Farm	1938	1531506
R	416m E	Unspecified Ground Workings	1967 - 1987	1498306
R	416m E	Refuse Heap	1951	1556942
U	419m NW	Unspecified Works	1967	1460353
U	420m NW	Sewage Farm	1951	1520450
W	422m W	Unspecified Pit	1948	1452815
W	422m W	Unspecified Pits	1938	1563957
W	422m W	Unspecified Pits	1951	1531705
W	424m W	Unspecified Pits	1929	1526026
R	436m E	Refuse Heap	1929	1559427
5	441m N	Nether Mill	1929	1454608
R	442m E	Refuse Heap	1948	1549092
R	442m E	Gravel Pit	1938	1474441
Y	442m E	Unspecified Ground Workings	1929	1441257
6	451m E	Railway Sidings	1929 - 1948	1539461
Y	453m E	Sandstone Quarry	1850	1445072
Y	459m E	Railway Sidings	1929	1507175
T	474m E	Cuttings	1850	1433835

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	10

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

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

ID	Location	Land use	Dates present	Group ID
B	9m W	Gasholder Station	1968	236499
B	18m W	Gas Works	1893	236961
B	68m W	Gasometer	1893	237217
B	69m NW	Unspecified Tank	1960	238439
B	92m NW	Gasometer	1893	237218
B	94m NW	Unspecified Tank	1960	238440
B	96m W	Gas Holder	1968	237150
B	96m W	Unspecified Tank	1960	238438
AA	472m NW	Tanks	1969	234123
AA	485m NW	Tanks	1969	234122

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	42

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

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

ID	Location	Land use	Dates present	Group ID
B	9m W	Gasholder Station	1968	142035

ID	Location	Land use	Dates present	Group ID
B	18m W	Gas Works	1893	144897
B	68m W	Gasometer	1893	141928
B	92m NW	Gasometer	1893	141929
B	96m W	Gas Holder	1968	145028
I	184m NE	Electricity Substation	1968	159436
I	184m NE	Electricity Substation	1985 - 1999	159588
I	186m NE	Electricity Substation	1983	147944
I	186m NE	Electricity Substation	1959	152031
M	231m S	Electricity Substation	1993 - 1999	153112
M	231m S	Electricity Substation	1985	146439
M	231m S	Electricity Substation	1968	149768
M	232m S	Electricity Substation	1959	150140
M	232m S	Electricity Substation	1983	156526
P	321m N	Electricity Substation	1983 - 1999	146135
P	321m N	Electricity Substation	1959	159509
P	321m N	Electricity Substation	1985	145776
P	321m N	Electricity Substation	1968	161065
N	324m W	Electricity Substation	1959	146294
N	324m W	Electricity Substation	1983	151084
N	324m W	Electricity Substation	1959	155605
N	325m W	Electricity Substation	1969	142122
N	358m W	Electricity Substation	1996 - 1998	148360
S	404m E	Electricity Substation	1968	149633
S	404m E	Electricity Substation	1985	154484
S	404m E	Electricity Substation	1983 - 1999	150331
S	405m E	Electricity Substation	1959	160352
X	426m S	Electricity Substation	1971	157259
X	427m S	Electricity Substation	1959	151245

ID	Location	Land use	Dates present	Group ID
X	427m S	Electricity Substation	1988	154583
X	427m S	Electricity Substation	1985	155472
X	427m S	Electricity Substation	1986	158782
X	427m S	Electricity Substation	1959	161036
X	429m S	Electricity Substation	1999	145807
X	429m S	Electricity Substation	1993	157475
X	429m S	Electricity Substation	1996	159457
X	429m S	Electricity Substation	1995	157103
X	429m S	Electricity Substation	1995	161937
Z	465m SW	Electricity Substation	1959	149832
Z	465m SW	Electricity Substation	1986 - 1988	150544
Z	466m SW	Electricity Substation	1971	156505
Z	467m SW	Electricity Substation	1993 - 1999	149095

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	8

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

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

ID	Location	Land use	Dates present	Group ID
F	38m E	Garage	1983	46769
F	38m E	Garage	1959	50231
F	49m NE	Garage	1968	48704
O	242m N	Garage	1968	48568
O	245m N	Garage	1998 - 1999	49547
O	246m N	Garage	1985 - 1993	46997
O	248m N	Garage	1983	48816
O	248m N	Garage	1959	49787

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	141

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 24 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mills**	**1967**	**1563044**
A	**On site**	**Unspecified Mills**	**1929**	**1539639**
A	**On site**	**Unspecified Mills**	**1951**	**1563044**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mills**	**1938**	**1505008**
B	**On site**	**Railway Sidings**	**1967**	**1561541**
C	**On site**	**Railway Building**	**1967**	**1477108**
C	**On site**	**Railway Station**	**1850**	**1443245**
C	**On site**	**Railway Sidings**	**1850**	**1493533**
C	**On site**	**Railway Sidings**	**1929**	**1481871**
C	**On site**	**Railway Sidings**	**1948**	**1501253**
C	**On site**	**Railway Buildings**	**1948**	**1484508**
C	**On site**	**Railway Sidings**	**1903**	**1551815**
C	**On site**	**Unspecified Works**	**1987**	**1460709**
C	**On site**	**Railway Sidings**	**1951**	**1540876**
C	**On site**	**Railway Buildings**	**1951**	**1532643**
C	**On site**	**Railway Buildings**	**1938**	**1530318**
C	**On site**	**Railway Sidings**	**1938**	**1501253**
A	4m W	Unspecified Commercial/Industrial	1948	1432011
1	5m W	Refuse Heaps	1987	1432593
A	17m W	Gas Works	1903	1494411
A	18m W	Gas Works	1891	1494411
A	28m W	Gas Valve Compound	1987	1465921
A	33m W	Railway Building	1948	1515663
A	33m W	Railway Building	1903	1569267
D	35m SE	Ambulance Station	1987	1432833
E	37m NE	Police Station	1929	1567074
E	39m NE	Police Station	1948	1509061
E	39m NE	Police Station	1903	1515005
E	41m NE	Police Station	1891	1521759
E	43m NE	Police Station	1938	1533497
2	45m N	Telecomm Exchange	1967	1442482

ID	Location	Land Use	Date	Group ID
E	47m NE	Police Station	1967	1512994
E	47m NE	Police Station	1987	1512994
E	47m NE	Police Station	1951	1512994
D	53m SE	Fire Station	1967	1552161
D	53m SE	Fire Station	1987	1552161
A	61m NW	Unspecified Mills	1987	1545344
A	65m NW	Gasometer	1891	1572373
A	66m W	Unspecified Tank	1929	1483429
A	67m NW	Unspecified Tank	1948	1573819
A	67m NW	Gasometer	1903	1572373
A	69m W	Unspecified Tanks	1938	1485273
A	71m NW	Unspecified Tanks	1967	1551241
A	71m NW	Unspecified Tanks	1951	1551241
A	71m W	Unspecified Tanks	1951	1443943
B	80m E	Railway Building	1903	1476754
A	90m NW	Gasometer	1891	1539586
A	91m W	Unspecified Tank	1948	1558244
A	91m NW	Unspecified Tank	1948	1564218
A	91m NW	Gasometer	1903	1539586
A	91m NW	Unspecified Tank	1929	1499178
A	93m W	Unspecified Tank	1929	1503707
A	109m NW	Unspecified Mills	1929	1547237
A	112m NW	Unspecified Mills	1948	1504127
B	114m E	Sandstone Quarry	1850	1445016
3	126m S	Unspecified Depot	1987	1445542
4	126m S	Cattle Market	1929	1471449
G	166m W	Cemetery	1891	1555062
G	166m W	Cemetery	1948	1562442

ID	Location	Land Use	Date	Group ID
G	166m W	Cemetery	1903	1538228
G	169m W	Cemetery	1938	1537831
G	169m W	Cemetery	1929	1538228
G	171m W	Cemetery	1967	1562821
G	171m W	Cemetery	1987	1569151
G	171m W	Cemetery	1951	1562442
H	173m W	Telecomm Exchange	1987	1442483
J	202m N	Unspecified Ground Workings	1929	1439879
J	203m N	Unspecified Pit	1948	1568666
J	203m N	Unspecified Pit	1903	1510236
J	207m N	Unspecified Pit	1938	1571040
J	207m N	Unspecified Pit	1938	1571040
J	208m N	Unspecified Pit	1967	1565663
J	208m N	Unspecified Pit	1987	1565663
J	213m N	Unspecified Pit	1951	1514881
K	218m W	Cuttings	1850	1528559
K	220m W	Cuttings	1891	1504244
L	230m W	Railway Building	1903	1476755
N	233m W	Unspecified Ground Workings	1929	1440904
N	235m W	Unspecified Pit	1938	1560865
N	235m W	Unspecified Pit	1938	1560865
N	237m W	Unspecified Pit	1948	1496356
H	238m NW	Mortuary	1938	1510912
H	240m NW	Mortuary	1948	1510912
L	248m W	Railway Building	1903	1476753
L	251m W	Railway Buildings	1938	1436224
L	256m W	Cuttings	1967	1531401
K	260m W	Cuttings	1903	1526764

ID	Location	Land Use	Date	Group ID
L	260m W	Cuttings	1948	1545146
L	261m W	Cuttings	1951	1494875
L	266m W	Cuttings	1929	1526764
K	266m W	Cuttings	1938	1565945
P	325m N	Unspecified Mill	1948	1530445
P	325m N	Unspecified Mill	1903	1548345
K	327m W	Cuttings	1967	1559148
K	327m W	Cuttings	1987	1559148
P	330m N	Unspecified Mill	1967	1524608
P	330m N	Unspecified Mill	1951	1524608
P	338m N	Nether Mill	1929	1454609
P	340m N	Unspecified Mill	1938	1530445
K	342m W	Cuttings	1948	1490594
K	342m W	Cuttings	1951	1559148
K	343m W	Cuttings	1929	1567217
P	348m N	Unspecified Mill	1891	1570154
P	348m N	Corn Mill	1850	1436655
Q	359m E	Railway Sidings	1929	1539074
R	401m E	Unspecified Works	1987	1459934
Q	405m E	Railway Building	1948	1499032
Q	405m E	Railway Building	1903	1575726
T	408m E	Railway Sidings	1891	1493343
K	410m W	Unspecified Pit	1938	1558121
K	410m W	Unspecified Pit	1938	1558121
K	412m W	Unspecified Pit	1948	1558121
U	413m NW	Sewage Farm	1929	1537110
K	414m W	Unspecified Pit	1951	1558121
U	414m NW	Sewage Farm	1948	1572302

ID	Location	Land Use	Date	Group ID
U	414m NW	Sewage Farm	1903	1497114
V	414m N	Unspecified Workhouse	1891	1535681
V	415m N	Unspecified Commercial/Industrial	1948	1431769
V	415m N	Unspecified Workhouse	1903	1535681
U	415m NW	Sewage Farm	1938	1531506
U	415m NW	Sewage Farm	1938	1531506
R	416m E	Unspecified Ground Workings	1967	1498306
R	416m E	Unspecified Ground Workings	1987	1498306
R	416m E	Refuse Heap	1951	1556942
U	419m NW	Unspecified Works	1967	1460353
U	420m NW	Sewage Farm	1951	1520450
W	422m W	Unspecified Pit	1948	1452815
W	422m W	Unspecified Pits	1938	1563957
W	422m W	Unspecified Pits	1938	1563957
W	422m W	Unspecified Pits	1951	1531705
W	424m W	Unspecified Pits	1929	1526026
R	436m E	Refuse Heap	1929	1559427
5	441m N	Nether Mill	1929	1454608
R	442m E	Refuse Heap	1948	1549092
R	442m E	Gravel Pit	1938	1474441
Y	442m E	Unspecified Ground Workings	1929	1441257
T	451m E	Railway Sidings	1938	1539461
Y	453m E	Sandstone Quarry	1850	1445072
6	455m E	Railway Sidings	1948	1539461
Y	459m E	Railway Sidings	1929	1507175
T	474m E	Cuttings	1850	1433835

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	10

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 24 >**

ID	Location	Land Use	Date	Group ID
A	9m W	Gasholder Station	1968	236499
A	18m W	Gas Works	1893	236961
A	68m W	Gasometer	1893	237217
A	69m NW	Unspecified Tank	1960	238439
A	92m NW	Gasometer	1893	237218
A	94m NW	Unspecified Tank	1960	238440
A	96m W	Unspecified Tank	1960	238438
A	96m W	Gas Holder	1968	237150
AA	472m NW	Tanks	1969	234123
AA	485m NW	Tanks	1969	234122

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	64

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 24 >**

ID	Location	Land Use	Date	Group ID
A	9m W	Gasholder Station	1968	142035
A	18m W	Gas Works	1893	144897
A	68m W	Gasometer	1893	141928
A	92m NW	Gasometer	1893	141929

ID	Location	Land Use	Date	Group ID
A	96m W	Gas Holder	1968	145028
I	184m NE	Electricity Substation	1985	159588
I	184m NE	Electricity Substation	1968	159436
I	186m NE	Electricity Substation	1993	159588
I	186m NE	Electricity Substation	1998	159588
I	186m NE	Electricity Substation	1999	159588
I	186m NE	Electricity Substation	1959	152031
I	186m NE	Electricity Substation	1983	147944
I	186m NE	Electricity Substation	1959	152031
M	231m S	Electricity Substation	1993	153112
M	231m S	Electricity Substation	1998	153112
M	231m S	Electricity Substation	1999	153112
M	231m S	Electricity Substation	1985	146439
M	231m S	Electricity Substation	1968	149768
M	232m S	Electricity Substation	1959	150140
M	232m S	Electricity Substation	1983	156526
M	232m S	Electricity Substation	1959	150140
P	321m N	Electricity Substation	1959	159509
P	321m N	Electricity Substation	1983	146135
P	321m N	Electricity Substation	1959	159509
P	321m N	Electricity Substation	1985	145776
P	321m N	Electricity Substation	1968	161065
P	321m N	Electricity Substation	1993	146135
P	321m N	Electricity Substation	1998	146135
P	321m N	Electricity Substation	1999	146135
N	324m W	Electricity Substation	1959	146294
N	324m W	Electricity Substation	1983	151084
N	324m W	Electricity Substation	1959	155605

ID	Location	Land Use	Date	Group ID
N	325m W	Electricity Substation	1969	142122
N	358m W	Electricity Substation	1996	148360
N	358m W	Electricity Substation	1998	148360
S	404m E	Electricity Substation	1985	154484
S	404m E	Electricity Substation	1968	149633
S	404m E	Electricity Substation	1993	150331
S	404m E	Electricity Substation	1998	150331
S	404m E	Electricity Substation	1999	150331
S	405m E	Electricity Substation	1959	160352
S	405m E	Electricity Substation	1983	150331
S	405m E	Electricity Substation	1959	160352
X	426m S	Electricity Substation	1971	157259
X	427m S	Electricity Substation	1959	161036
X	427m S	Electricity Substation	1959	151245
X	427m S	Electricity Substation	1985	155472
X	427m S	Electricity Substation	1986	158782
X	427m S	Electricity Substation	1988	154583
X	429m S	Electricity Substation	1993	157475
X	429m S	Electricity Substation	1996	159457
X	429m S	Electricity Substation	1999	145807
X	429m S	Electricity Substation	1995	157103
X	429m S	Electricity Substation	1995	161937
Z	465m SW	Electricity Substation	1959	149832
Z	465m SW	Electricity Substation	1959	149832
Z	465m SW	Electricity Substation	1986	150544
Z	465m SW	Electricity Substation	1988	150544
Z	466m SW	Electricity Substation	1971	156505
Z	467m SW	Electricity Substation	1993	149095

ID	Location	Land Use	Date	Group ID
Z	467m SW	Electricity Substation	1996	149095
Z	467m SW	Electricity Substation	1999	149095
Z	467m SW	Electricity Substation	1995	149095
Z	467m SW	Electricity Substation	1995	149095

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	**12**

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 24 >**

ID	Location	Land Use	Date	Group ID
F	38m E	Garage	1959	50231
F	38m E	Garage	1983	46769
F	38m E	Garage	1959	50231
F	49m NE	Garage	1968	48704
O	242m N	Garage	1968	48568
O	245m N	Garage	1998	49547
O	245m N	Garage	1999	49547
O	246m N	Garage	1993	46997
O	247m N	Garage	1985	46997

ID	Location	Land Use	Date	Group ID
O	248m N	Garage	1959	49787
O	248m N	Garage	1983	48816
O	248m N	Garage	1959	49787

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill

Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (BGS)

Historical landfill (LA/OS)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 35 >**

ID	Location	Address	BGS Number	Risk	Waste Type
1	106m W	Stottercliffe Road, Penistone, S Yorkshire	714	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 35 >**

ID	Location	Site address	Source	Data type
A	17m W	Refuse Tip	1993 mapping	Polygon
A	70m SW	Refuse Tip	1993 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	4

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

Features are displayed on the Waste and landfill map on **page 35 >**

ID	Location	Details		
A	**On site**	**Site Address: Stottercliffe Road, Penistone, South Yorkshire Licence Holder Address: 12/18 Eldon Street, Barnsley**	**Waste Licence: Yes Site Reference: 20B60(10), 4400/B60, WD20 B60 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03/04/1978 Licence Surrender: 09/12/1985**	**Operator: Penistone Urban District Council Licence Holder: Barnsley Metropolitan Borough Council Amenities and Recreation Dept First Recorded 30/04/1978 Last Recorded: 31/12/1984**

ID	Location	Details		
3	343m NW	Site Address: T.A. Centre, Thurlstone Road, Penistone, Sheffield Licence Holder Address: Nethfield Farm, Huddersfield Road, Penistone	Waste Licence: Yes Site Reference: 4400/(33), WD20 B261 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/05/1982 Licence Surrender: 29/04/1994	Operator: A Gill Licence Holder: Mr A Gill First Recorded 07/05/1982 Last Recorded: 29/04/1994
D	460m NW	Site Address: Thurlstone Road, Penistone, South Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial, Commercial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Penistone Urban District Council Licence Holder: - First Recorded - Last Recorded: -
D	479m NW	Site Address: Thurlstone Road, Penistone, South Yorkshire Licence Holder Address: -	Waste Licence: Yes Site Reference: 20B261(33), 4400/B261, (117)B Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/05/1982 Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	**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	10

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

Features are displayed on the Waste and landfill map on **page 35 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	41m E	Unit 1 St Marys Street Sheffield South Yorkshire S36 6dt	EPR/JE5088LU/A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal
B	41m E	Unit 1 St Marys Street Sheffield South Yorkshire S36 6dt	EPR/JE5088LU/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
B	41m E	Unit 1 St Marys Street Sheffield South Yorkshire S36 6dt	EPR/JE5088LU/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
B	41m E	Unit 1 St Marys Street Sheffield South Yorkshire S36 6dt	EPR/JE5088LU/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
C	221m SE	40, Shrewsbury Road, Penistone, Sheffield, S36 6dy	WEX295365	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	221m SE	Kingswell Surgery, 40 Shrewsbury Road, Penistone, Sheffield, S36 6dy	WEX159985	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	221m SE	40, Shrewsbury Road, Penistone, Sheffield, S36 6dy	WEX077422	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
2	302m NW	-	WEX236275	Using waste exemption	Not on a farm	Use of waste in construction
4	351m S	115 Park Avenue Sheffield Barnsley S36 6dl	EPR/MF0206ZF/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
5	391m NE	Water Hall House, Water Hall Lane, Penistone, Sheffield, S36 8eq	WEX295897	Using waste exemption	On a farm	Use of waste in construction

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

4 Current industrial land use

Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	23

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 39 >**

ID	Location	Company	Address	Activity	Category
A	**On site**	**C D Autos**	**Unit 3, St Marys Street, Penistone, Barnsley, South Yorkshire, S36 6DT**	**Vehicle Repair, Testing and Servicing**	**Repair and Servicing**
A	17m SE	Stottercliffe Garage	Stottercliffe Road, Penistone, Sheffield, South Yorkshire, S36 6EB	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
A	41m SE	Holmax Transport	7 Armitage Buildings, Stottercliffe Road, Penistone, Barnsley, South Yorkshire, S36 6AD	Distribution and Haulage	Transport, Storage and Delivery
1	45m W	Gas Valve Compound	South Yorkshire, S36	Gas Features	Infrastructure and Facilities
B	47m SE	Louder Than Life	Regent Court, St Marys Street, Penistone, Barnsley, South Yorkshire, S36 6DT	Musical Instruments	Consumer Products
B	47m SE	Discrete Solutions Ltd	Suite 10 Regent Court, St Marys Street, Penistone, Barnsley, South Yorkshire, S36 6DT	Measurement and Inspection Equipment	Industrial Products
C	55m SW	Electricity Sub Station	South Yorkshire, S36	Electrical Features	Infrastructure and Facilities
D	67m NE	Penistone Engineering Supplies	Bridge Street, Penistone, Barnsley, South Yorkshire, S36 6AJ	General Construction Supplies	Industrial Products
D	67m NE	Flouch Transport Co Ltd	Bridge Street, Penistone, Barnsley, South Yorkshire, S36 6AJ	Distribution and Haulage	Transport, Storage and Delivery
C	73m S	Tank	South Yorkshire, S36	Tanks (Generic)	Industrial Features
B	83m E	Mad Dog Marketing Ltd	Tannery House 12b, St Marys Street, Penistone, Barnsley, South Yorkshire, S36 6DT	Animal Feeds, Pet Foods, Hay and Straw	Foodstuffs
B	84m E	Greens of Southery	12b, St Marys Street, Penistone, Barnsley, South Yorkshire, S36 6DT	Animal Feeds, Pet Foods, Hay and Straw	Foodstuffs
2	120m NE	Rostra Beauty	26, Bridge Street, Penistone, Barnsley, South Yorkshire, S36 6AJ	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
E	121m NW	The Wire Shop	Stanley Mill House 69, Talbot Road, Penistone, Barnsley, South Yorkshire, S36 9ED	Fences, Gates and Railings	Industrial Products
3	150m SE	Drayton Tank & Accessories Ltd	3 Crown House, Market Street, Penistone, Barnsley, South Yorkshire, S36 6BZ	Rubber, Silicones and Plastics	Industrial Products
4	163m E	James H Wood Printers Ltd	The Don Press 9, Church Street, Penistone, Barnsley, South Yorkshire, S36 6AR	Published Goods	Industrial Products
E	169m NW	Stanley Wire Ltd	Stanley Mills, Talbot Road, Penistone, Barnsley, South Yorkshire, S36 9ED	Cable, Wire and Fibre Optics	Industrial Products

ID	Location	Company	Address	Activity	Category
5	187m N	Digi Print	1, Wentworth Road, Penistone, Barnsley, South Yorkshire, S36 6ET	Published Goods	Industrial Products
6	197m NE	Electricity Sub Station	South Yorkshire, S36	Electrical Features	Infrastructure and Facilities
7	199m N	The Fire Place	3, Thurlstone Road, Penistone, Barnsley, South Yorkshire, S36 9EF	Fireplaces and Mantelpieces	Consumer Products
F	221m NW	Telephone Exchange	South Yorkshire, S36	Telecommunications Features	Infrastructure and Facilities
F	221m NW	Mast (Telecommunication)	South Yorkshire, S36	Telecommunications Features	Infrastructure and Facilities
8	249m S	Electricity Sub Station	South Yorkshire, S36	Electrical Features	Infrastructure and Facilities

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 39 >**

ID	Location	Company	Address	LPG	Status
G	296m N	TEXACO	Barnsley Road, Huddersfield Road, Penistone, Sheffield, South Yorkshire, S36 8AF	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	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	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 39 >**

ID	Location	Address	Details	
G	273m N	Bridge End Garage, Barnsley Road, Penistone, Sheffield, S36 8AF	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement 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	18

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 39 >**

ID	Location	Address	Details	
H	278m N	BRIDGE END PENISTONE CSO, WENTWORTH ROAD ADJ REC GRD, PENISTONE, SHEFFIELD, SOUTH YORKSHIRE, S35 6EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: C4960 Permit Version: 2 Receiving Water: RIVER DON	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/06/2007 Effective Date: 04/06/2007 Revocation Date: 06/03/2022
H	280m N	BRIDGE END PENISTONE CSO, WENTWORTH ROAD ADJ REC GRD, PENISTONE, SHEFFIELD, SOUTH YORKSHIRE, S35 6EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: C4960 Permit Version: 3 Receiving Water: RIVER DON	Status: VARIED UNDER EPR 2010 Issue date: 07/03/2022 Effective Date: 07/03/2022 Revocation Date: -
H	296m N	BRIDGE END PENISTONE CSO, WENTWORTH ROAD ADJ REC GRD, PENISTONE, SHEFFIELD, SOUTH YORKSHIRE, S35 6EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: C4960 Permit Version: 1 Receiving Water: RIVER DON	Status: TRANSFERRED FROM COPA 1974 Issue date: 27/01/1988 Effective Date: 27/01/1988 Revocation Date: 03/06/2007
I	332m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 8 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: VARIED UNDER EPR 2010 Issue date: 16/05/2022 Effective Date: 16/05/2022 Revocation Date: -
I	332m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA7365 Permit Version: 8 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: VARIED UNDER EPR 2010 Issue date: 16/05/2022 Effective Date: 16/05/2022 Revocation Date: -
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 2 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 09/09/1998 Effective Date: 09/09/1998 Revocation Date: 10/09/2003

ID	Location	Address	Details	
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 5 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/04/2009 Revocation Date: 31/03/2010
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 4 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/09/2003 Effective Date: 01/01/2004 Revocation Date: 31/03/2009
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7365 Permit Version: 4 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/09/2003 Effective Date: 01/01/2004 Revocation Date: 31/03/2009
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 7 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 17/04/2012 Effective Date: 17/04/2012 Revocation Date: 15/05/2022
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 6 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 01/04/2010 Effective Date: 01/04/2010 Revocation Date: 16/04/2012
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 1 Receiving Water: RIVER DON	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/10/1997 Effective Date: 24/10/1997 Revocation Date: 08/09/1998

ID	Location	Address	Details	
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7365 Permit Version: 2 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 09/09/1998 Effective Date: 09/09/1998 Revocation Date: 10/09/2003
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA7365 Permit Version: 3 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/09/2003 Effective Date: 11/09/2003 Revocation Date: 31/12/2003
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7365 Permit Version: 1 Receiving Water: RIVER DON	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/10/1997 Effective Date: 24/10/1997 Revocation Date: 08/09/1998
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7365 Permit Version: 3 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/09/2003 Effective Date: 11/09/2003 Revocation Date: 31/12/2003
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7365 Permit Version: 5 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/04/2009 Revocation Date: 31/03/2010
I	335m NW	INGBIRCHWORTH NO. 2 STW, HUDDERSFIELD ROAD (A629), INGBIRCHWORTH, SHEFFIELD, SOUTH YORKSHIRE, S36 7GF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7365 Permit Version: 6 Receiving Water: RIVER DON & INGBIRCHWORTH DYKE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 01/04/2010 Effective Date: 01/04/2010 Revocation Date: 16/04/2012

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	11

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 39 >**

ID	Location	Details	
B	68m E	Incident Date: 11/02/2002 Incident Identification: 57675 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	114m NW	Incident Date: 10/05/2003 Incident Identification: 157261 Pollutant: Atmospheric Pollutants and Effects:Atmospheric Pollutants and Effects Pollutant Description: Fumes:Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	114m NW	Incident Date: 10/05/2003 Incident Identification: 157261 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	114m NW	Incident Date: 10/05/2003 Incident Identification: 157261 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
G	238m N	Incident Date: 14/09/2003 Incident Identification: 189690 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	279m N	Incident Date: 03/03/2003 Incident Identification: 140520 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	298m N	Incident Date: 22/02/2003 Incident Identification: 138614 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	311m N	Incident Date: 12/02/2003 Incident Identification: 136409 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	437m E	Incident Date: 25/10/2001 Incident Identification: 39145 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	466m N	Incident Date: 31/07/2003 Incident Identification: 178220 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
11	470m NW	Incident Date: 17/08/2004 Incident Identification: 260087 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) 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.

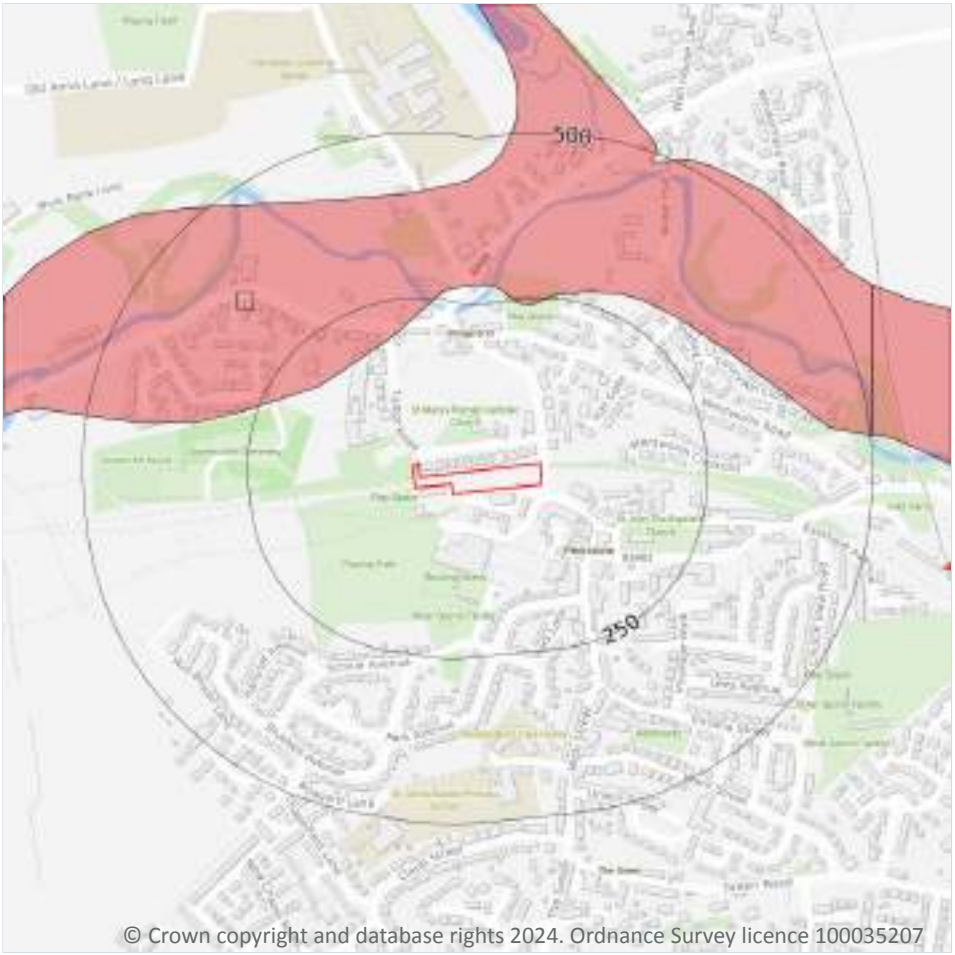
4.21 Pollution inventory radioactive waste

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



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	1

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 50 >**

ID	Location	Designation	Description
1	180m NW	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 51 >**

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	499m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability

Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 53 >**

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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones

Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	7

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 55 >**

ID	Location	Details	
A	705m SE	Status: Historical Licence No: 2/27/05/010 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X2 Data Type: Point Name: WILLIAM COOK HI-TEC INTEGRITY LTD Easting: 425000 Northing: 402900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/05/1996 Version End Date: -
A	705m SE	Status: Historical Licence No: 2/27/05/010 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X2 - COAL MEASURES - PENISTONE Data Type: Point Name: WILLIAM COOK HI-TEC INTEGRITY LTD Easting: 425000 Northing: 402900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/05/1996 Version End Date: -
-	1834m SW	Status: Historical Licence No: 2/27/05/159 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: FLINT Easting: 423600 Northing: 401700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/02/1975 Expiry Date: - Issue No: 100 Version Start Date: 20/02/1975 Version End Date: -
-	1834m SW	Status: Historical Licence No: 2/27/05/159 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - PENISTONE Data Type: Point Name: FLINT Easting: 423600 Northing: 401700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/02/1975 Expiry Date: - Issue No: 100 Version Start Date: 20/02/1975 Version End Date: -
-	1882m N	Status: Historical Licence No: 2/27/08/077 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING Data Type: Line Name: WHITTLESTONE Easting: 424700 Northing: 405700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/06/1976 Version End Date: -

ID	Location	Details	
-	1882m N	Status: Historical Licence No: 2/27/08/077 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING 2 - CHERRY TREE FARM PENISTONE Data Type: Point Name: WHITTLESTONE Easting: 424700 Northing: 405300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/06/1976 Version End Date: -
-	1902m N	Status: Historical Licence No: 2/27/08/084 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING FED TROUGH Data Type: Point Name: LINLEY Easting: 424840 Northing: 405300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/02/1969 Expiry Date: - Issue No: 100 Version Start Date: 07/01/1970 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**2**

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 55 >**

ID	Location	Details	
-	1931m E	Status: Historical Licence No: 2/27/05/104 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER DON -- PUMP Data Type: Point Name: WINTERBOTTOM (WIREDRAWERS) LTD Easting: 426300 Northing: 402700	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: 17/03/1966 Version End Date: -

ID	Location	Details	
-	1931m E	Status: Historical Licence No: 2/27/05/104 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: WINTERBOTTOM (WIREDRAWERS) LTD Easting: 426300 Northing: 402700	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: 17/03/1966 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	8

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 59 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	54m W	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
A	64m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	108m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	137m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	171m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	179m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	222m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
7	238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	3

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 59 >**

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 59 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Don from Source to Scout Dyke**	**GB104027057500**	**Don Upper**	**Don and Rother**

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 59 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	239m N	River	Don from Source to Scout Dyke	GB104027057500 ↗	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 59 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	**On site**	**Don & Rother Millstone grit & Coal Measures**	**GB40402G992300 ↗**	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding

Site Outline

Search buffers in metres (m)

River and coastal flooding:

High

Medium

Low

Very Low

Historical Flood Events

Areas Used for Flood Storage

Areas Benefiting from Flood Defences

Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	6

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 62 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	71m NW	2007 River Don Thurlstone	2007-06-15 2007-06-30	Main river	Channel capacity exceeded (no raised defences)	Fluvial
2	225m NW	2007 River Don Thurlstone	2007-06-15 2007-06-30	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	234m N	2007 River Don Penistone	2007-06-15 2007-06-30	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	234m N	2007 River Don Thurlstone	2007-06-15 2007-06-30	Main river	Channel capacity exceeded (no raised defences)	Fluvial
5	243m N	2007 River Don Thurlstone	2007-06-15 2007-06-30	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	247m N	2007 River Don Penistone	2007-06-15 2007-06-30	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	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding

Site Outline
Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 66 >**

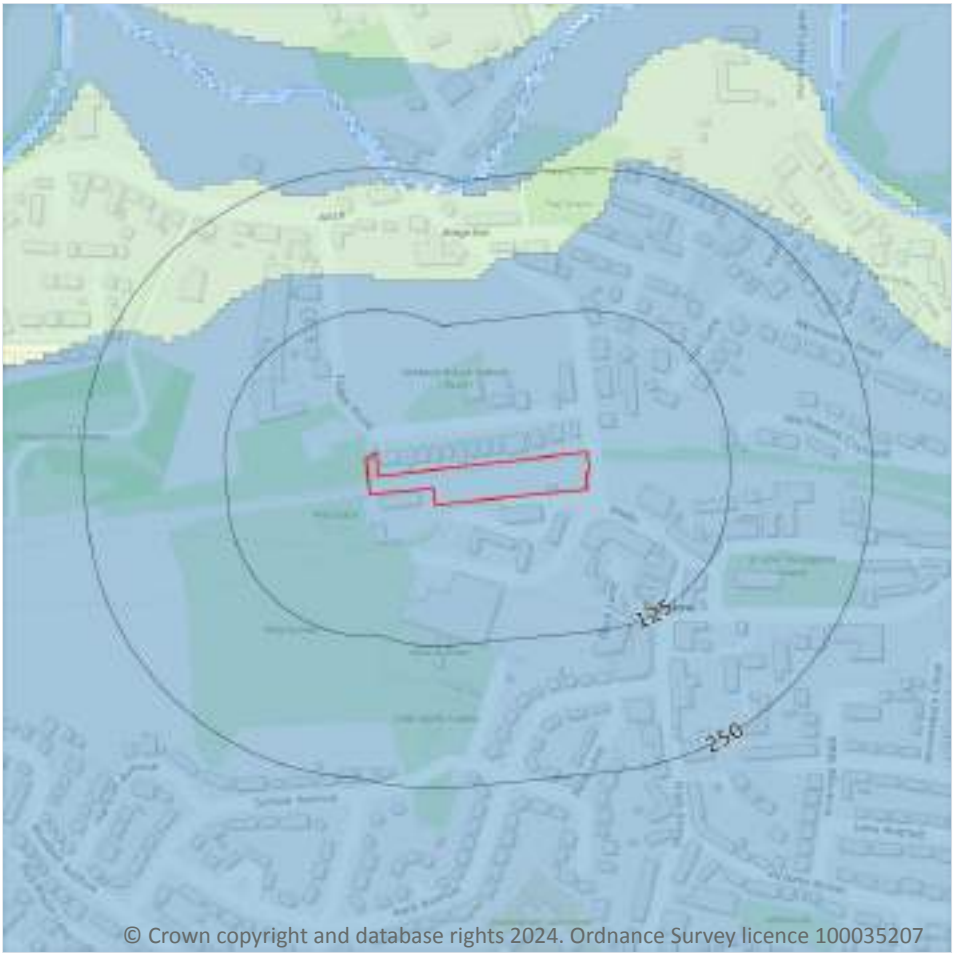
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

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

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

Features are displayed on the Groundwater flooding map on **page 68 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	4

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 69 >**

ID	Location	Name	Woodland Type
2	924m S	Unknown	Ancient Replanted Woodland
3	1059m E	Shrogg Wood	Ancient & Semi-Natural Woodland
-	1471m E	Spring Vale Wood	Ancient & Semi-Natural Woodland
-	1837m N	Cat Hill Clough Wood	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 69 >**

ID	Location	Name	Local Authority name
1	178m W	South and West Yorkshire	Barnsley

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	2

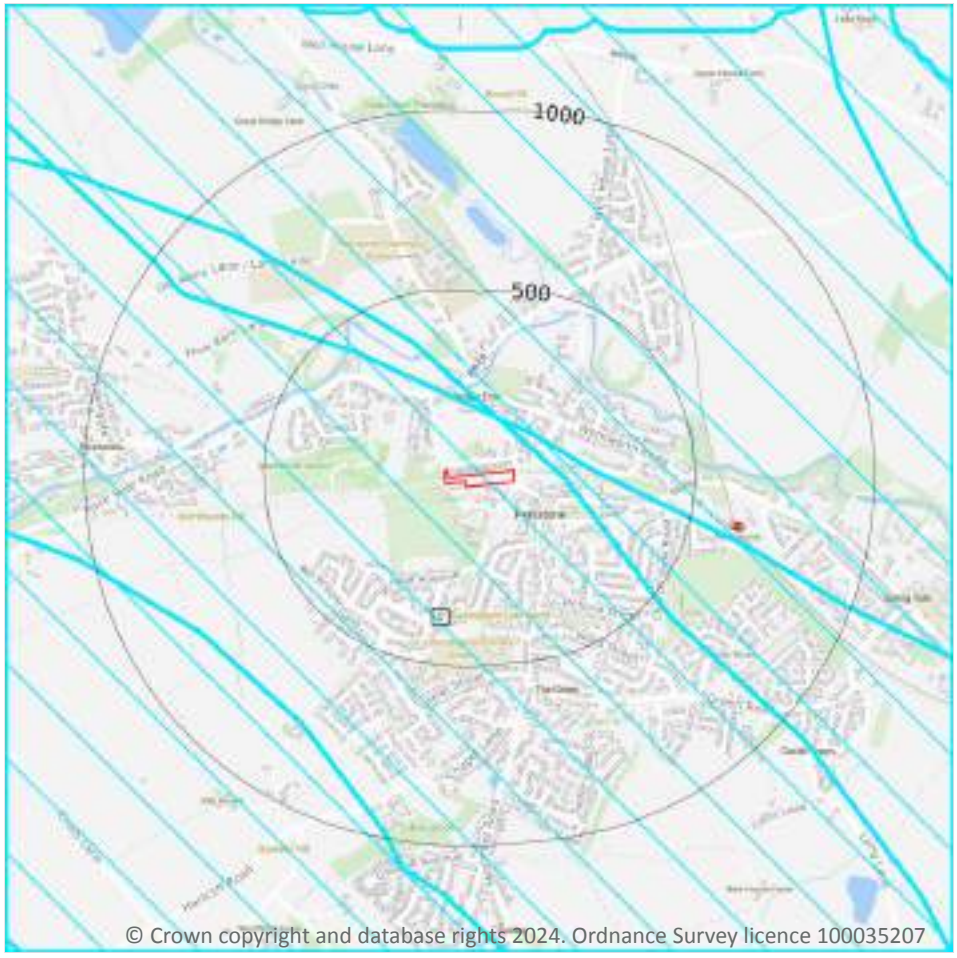
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1184m N	River Dearne NVZ	Surface Water	278	Existing

Location	Name	Type	NVZ ID	Status
1533m N	River Dearne NVZ	Surface Water	278	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 75 >**

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

This data is sourced from Natural England.

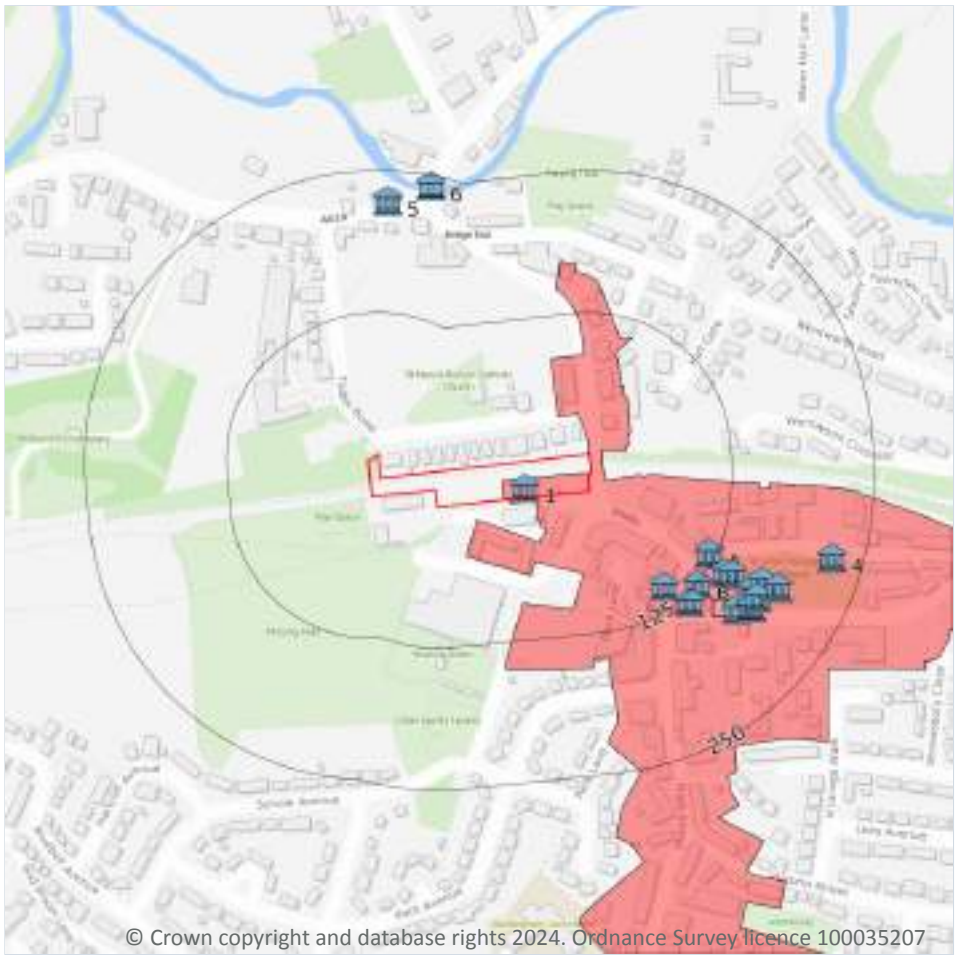
10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	16

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 77 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	**On site**	**Coal Drops Immediately West Of Bridge Under Penistone Woodhead Railway**	**II**	**1314713**	**27/04/1988**
3	107m SE	8, Market Street	II	1151831	27/04/1988
A	119m E	Midland Bank And Bank Chambers	II	1286793	27/04/1988
B	126m SE	1 And 3, Market Street	II	1314710	23/06/1965
B	132m SE	5 And 7, Market Street	II	1286806	27/04/1988

ID	Location	Name	Grade	Reference Number	Listed date
A	140m E	Penistone War Memorial	II	1470480	29/06/2020
A	146m E	Cross Base, In Churchyard, Approximately 5 Metres West Of West Door Of Church Of St John	II	1191942	27/04/1988
A	166m SE	K6 Telephone Kiosk In Front Of Church	II	1314674	27/04/1988
A	168m SE	Robert Martin Graveslab In Churchyard Approximately 1 Metre West Of South Porch Of Church Of St John	II	1151830	27/04/1988
A	172m E	Church Of St John	I	1314709	23/06/1965
A	176m SE	Cross And Shaft, In Churchyard Approximately 10 Metres South Of South Porch Of Church Of St John	II	1191933	27/04/1988
A	176m SE	Lamp Standard In Churchyard Approximately 2 Metres South Of South Porch Of Church Of St John	II	1151829	27/04/1988
A	187m E	Jane Greaves Graveslab In Churchyard, Approximately 2 Metres East Of Chancel Door Of Church Of St John	II	1191960	27/04/1988
4	223m E	Milestone Built Into North Wall Of Churchyard At Se 247033	II	1151032	27/04/1988
5	223m N	8 And 10, Thurlstone Road	II	1314675	27/04/1988
6	241m N	Penistone Bridge Over River Don	II	1151030	27/04/1988

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

11.5 Conservation Areas

Records within 250m **1**

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

Features are displayed on the Visual and cultural designations map on **page 77 >**

ID	Location	Name	District	Date of designation
2	**On site**	**Penistone**	**Barnsley**	**1974**

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

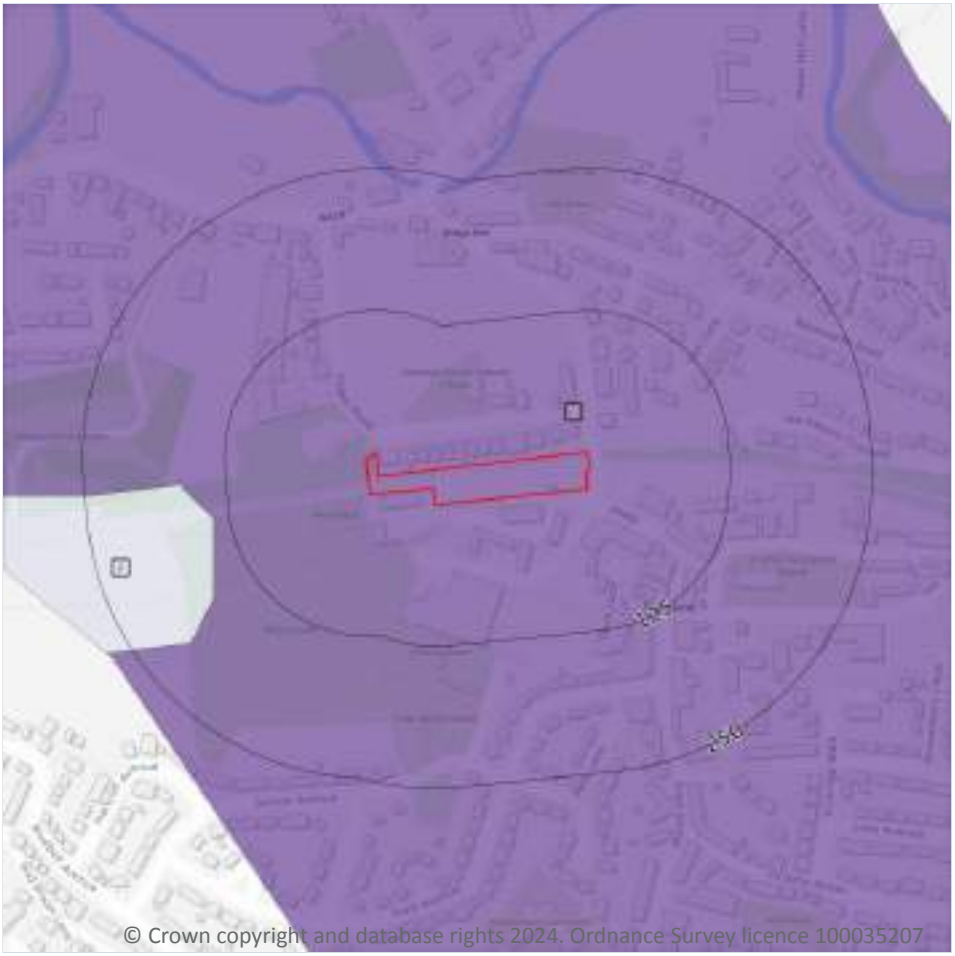
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

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

12.1 Agricultural Land Classification

Records within 250m	2

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

Features are displayed on the Agricultural designations map on **page 81 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	-

ID	Location	Classification	Description
2	139m W	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

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

13.1 Priority Habitat Inventory

Records within 250m	13

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 84 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	3m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	46m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	165m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
A	186m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	201m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	210m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	211m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	215m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	221m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	225m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	225m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	236m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	**0**

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave

them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	2

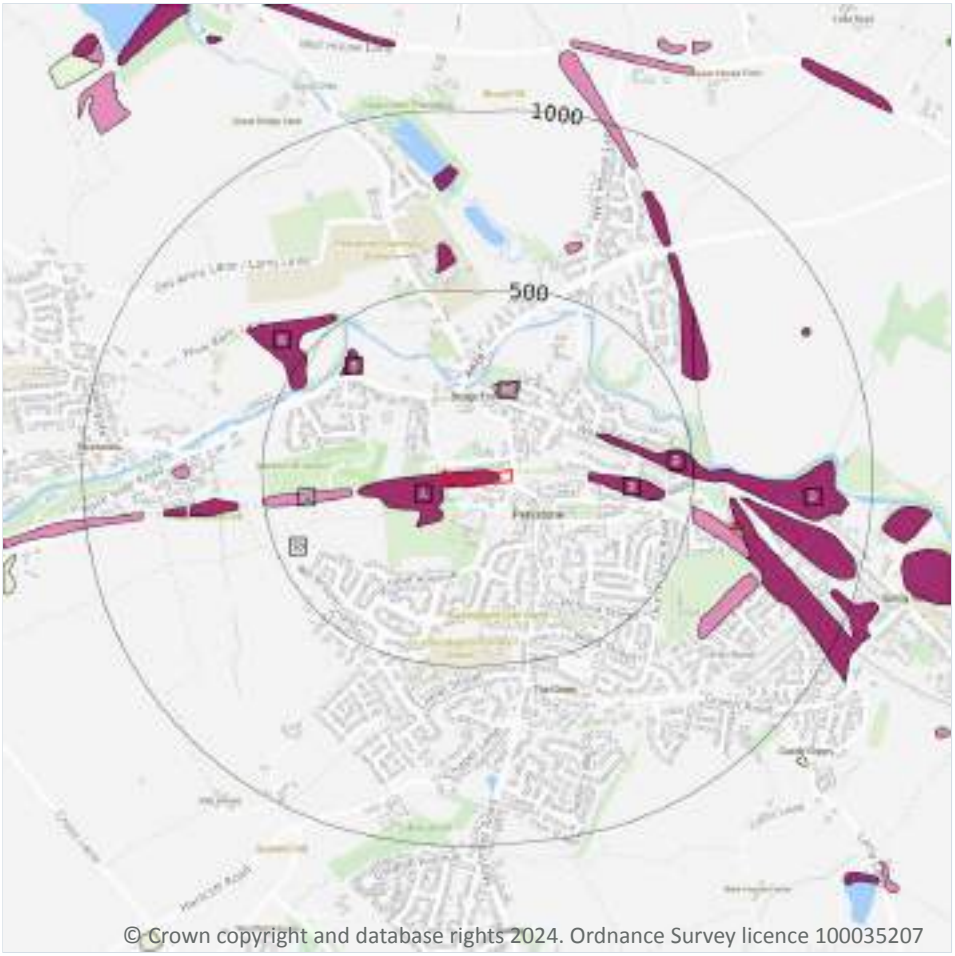
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 87 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE20SW**
2	499m E	Full	Full	Full	Full	SE20SE

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m	9

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.

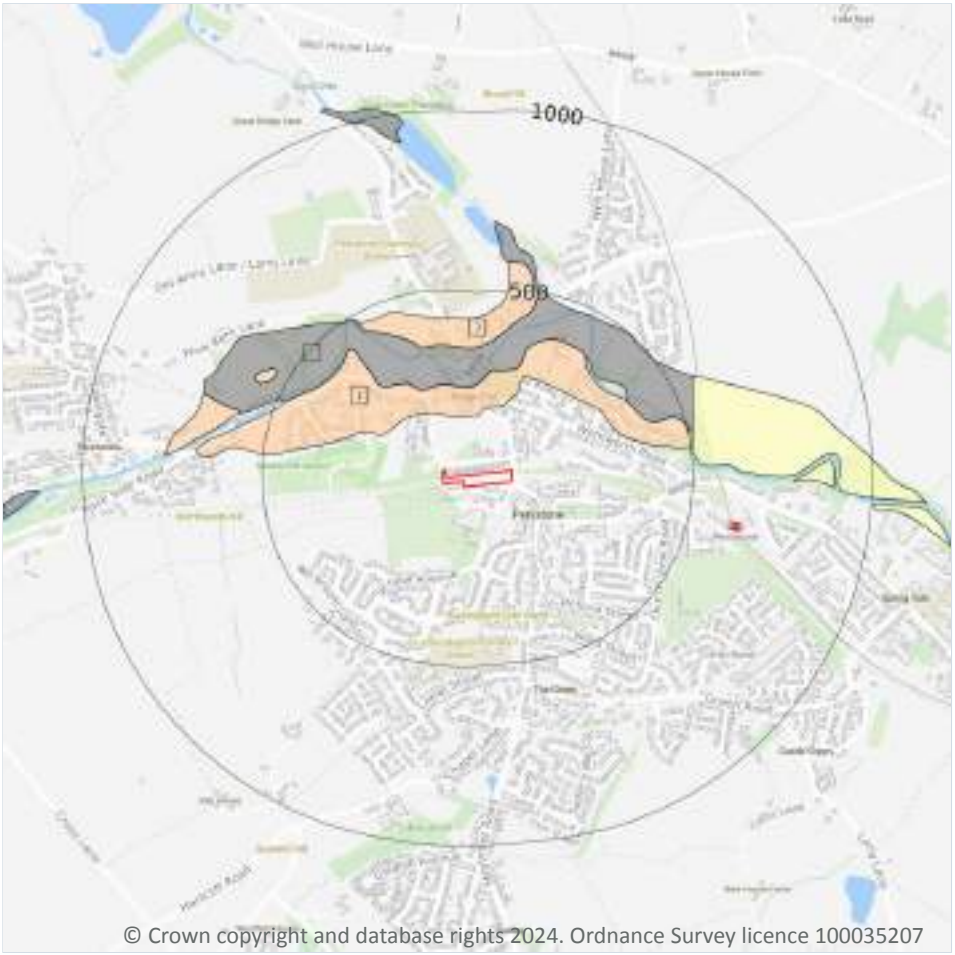
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 88 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
2	207m N	WGR-VOID	Worked Ground (Undivided)	Void
3	209m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	252m W	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
5	253m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	356m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	425m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	450m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	499m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	3

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 90 >**

ID	Location	LEX Code	Description	Rock description
1	152m NW	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
2	232m NW	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
3	343m N	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

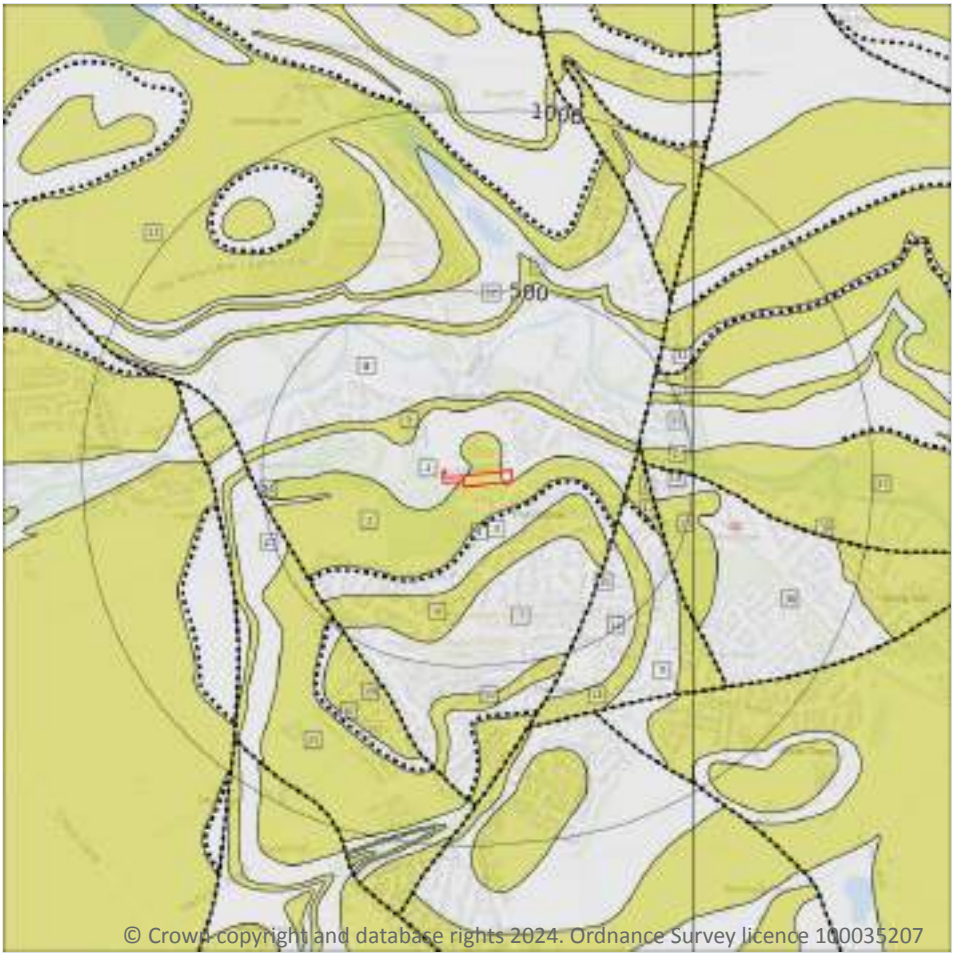
14.4 Landslip (10k)

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	29

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 92 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSI**	**Pennine Lower Coal Measures Formation - Mudstone And Siltstone**	**Langsettian Sub-age**
2	**On site**	**PF-SDST**	**Penistone Flags - Sandstone**	**Langsettian Sub-age**
3	65m SE	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
5	122m NW	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
6	122m SE	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
7	196m SE	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
8	197m N	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
9	312m E	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
11	312m E	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
13	315m E	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
14	321m SE	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
15	363m E	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
17	363m E	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
18	367m E	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
20	376m N	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
21	398m E	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
22	404m N	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
23	425m NE	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
24	441m NE	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
25	457m SW	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
27	463m W	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
28	466m NE	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
29	481m SW	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
31	485m NE	PLCM-MDSI	Pennine Lower Coal Measures Formation - Mudstone And Siltstone	Langsettian Sub-age
33	494m N	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
34	495m SW	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
35	498m S	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
36	499m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
37	499m E	GR-SDST	Grenoside 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	**9**

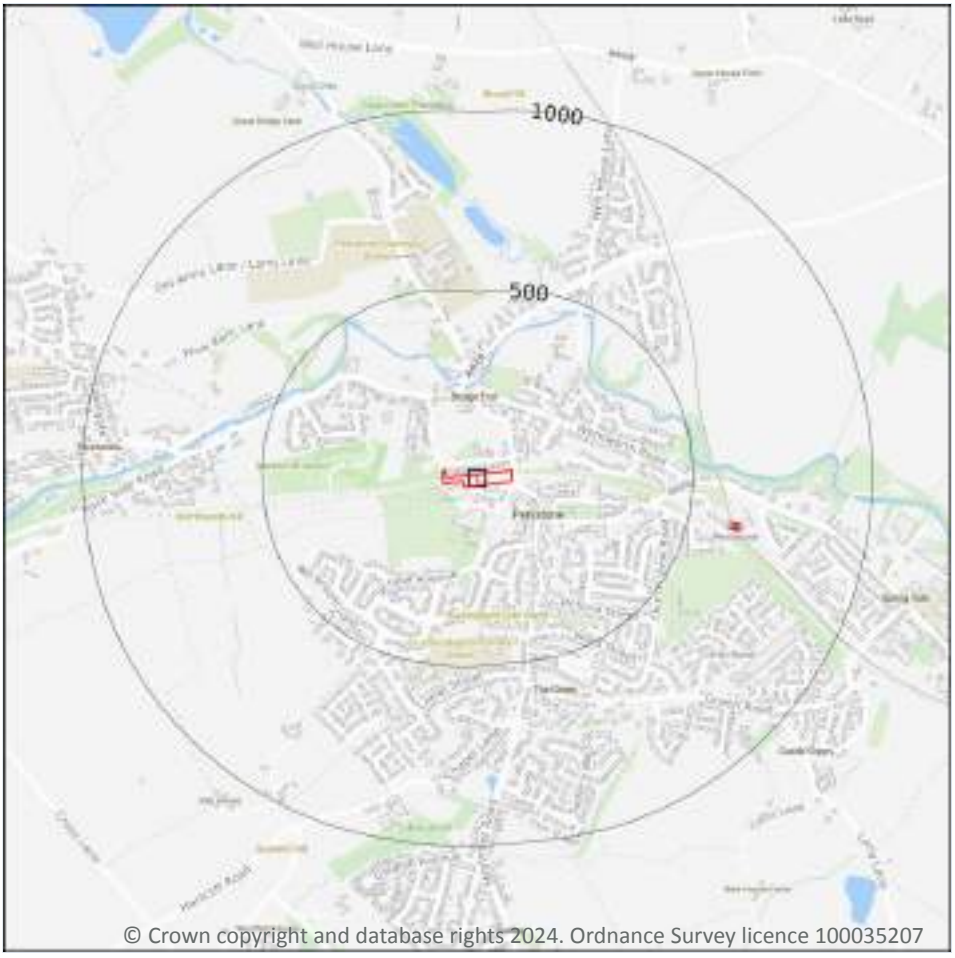
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 92 >**

ID	Location	Category	Description
4	72m SE	ROCK	Coal seam, inferred ()
10	312m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
12	314m E	ROCK	Coal seam, inferred ()
16	363m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
19	367m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
26	457m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
30	482m SW	ROCK	Coal seam, inferred ()
32	485m NE	ROCK	Coal seam, inferred ()
38	499m E	FAULT	Normal fault, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

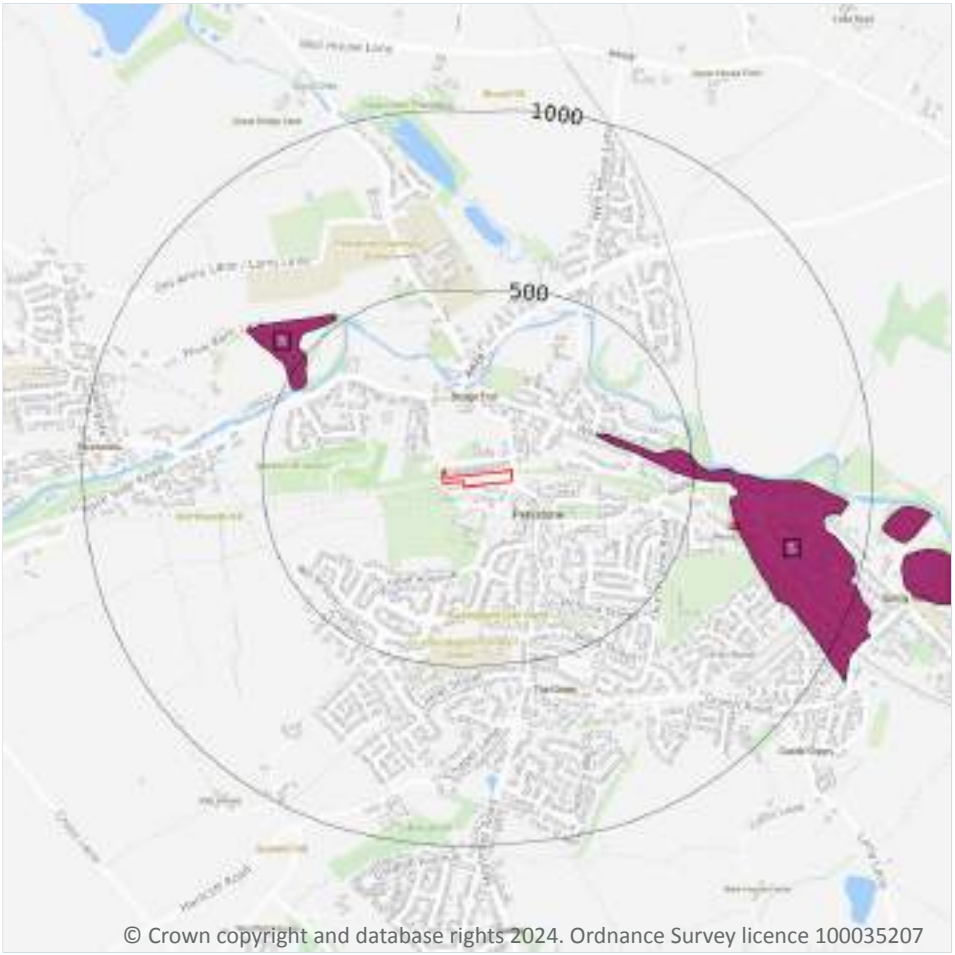
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 95 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW086_glossop_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 96 >**

ID	Location	LEX Code	Description	Rock description
1	253m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	451m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

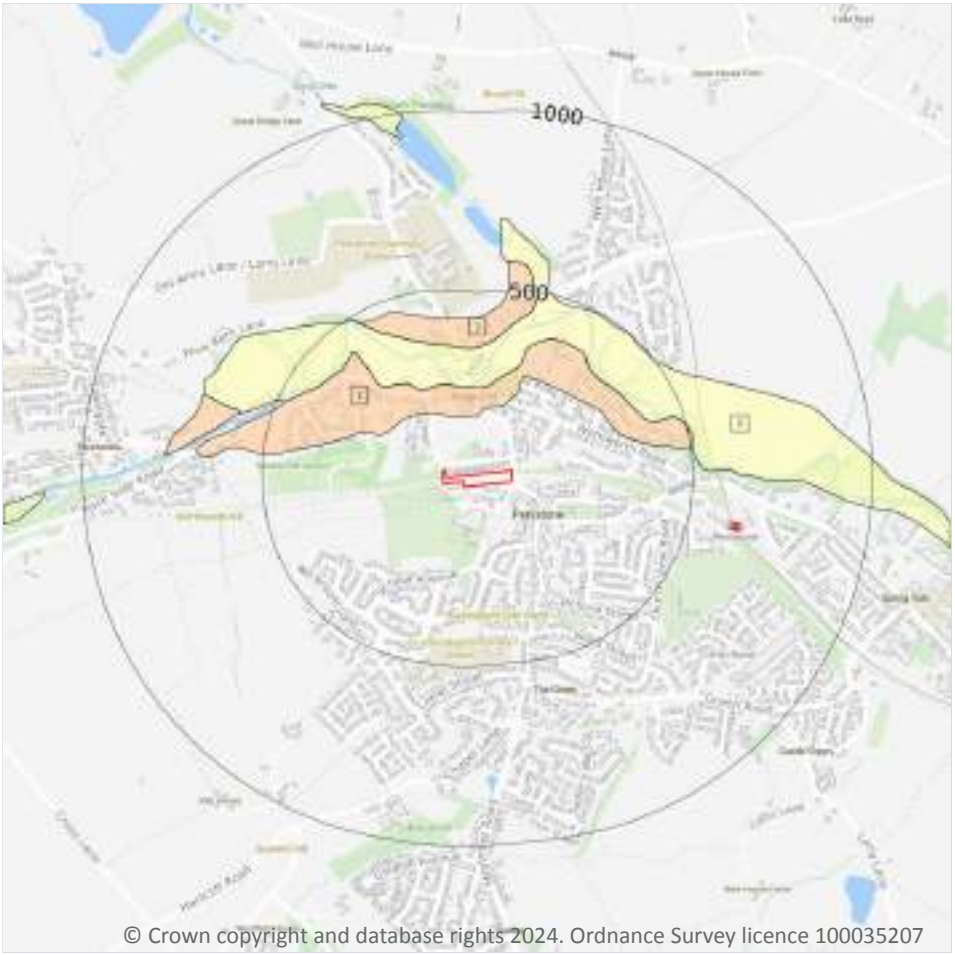
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	3

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 98 >**

ID	Location	LEX Code	Description	Rock description
1	152m NW	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
2	231m NW	ALV-XCZ	ALLUVIUM	CLAY AND SILT
3	342m N	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	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.

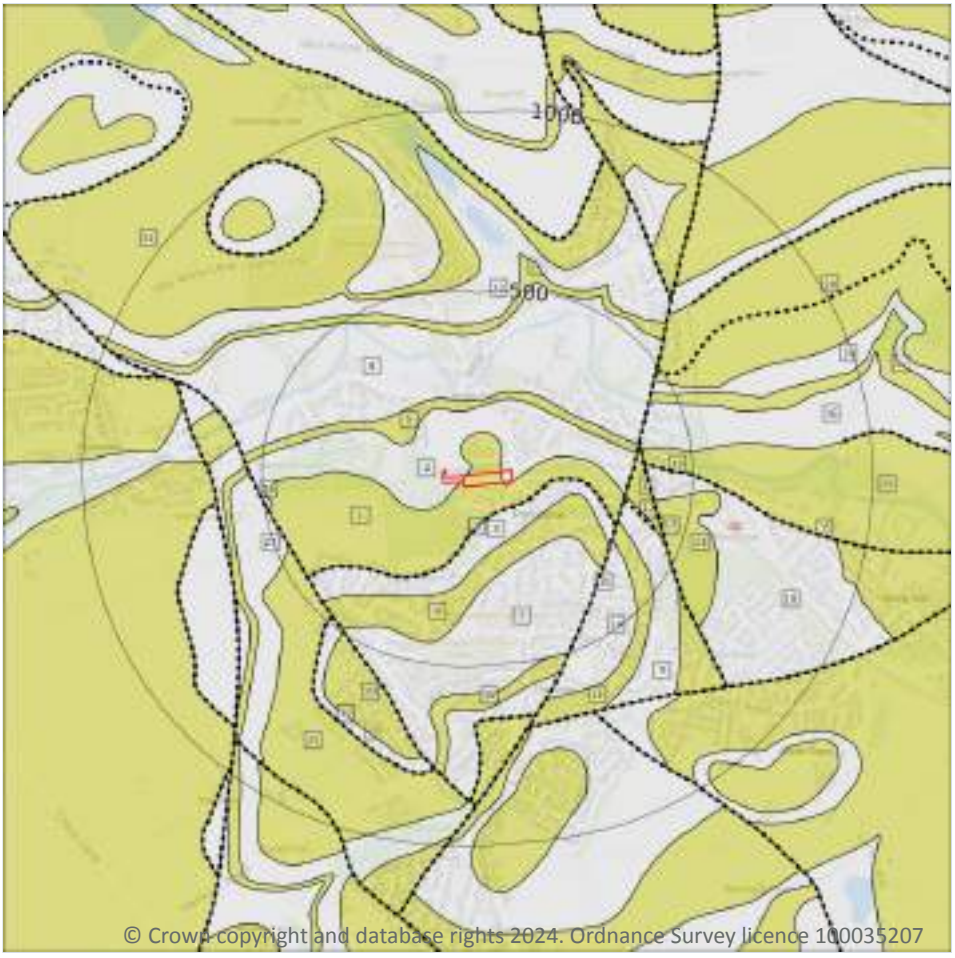
15.7 Landslip permeability (50k)

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	26

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 100 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PF-SDST**	**PENISTONE FLAGS - SANDSTONE**	**WESTPHALIAN**
2	**On site**	**PLCM-MDSI**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE**	**WESTPHALIAN**
3	65m SE	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	122m NW	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
6	122m SE	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
7	196m SE	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
8	197m N	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
9	312m E	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
11	312m E	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
13	315m E	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
14	321m SE	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
15	363m E	GR-SDST	GRENOSIDE SANDSTONE - SANDSTONE	WESTPHALIAN
16	363m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	368m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
20	376m N	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
21	397m E	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
22	404m N	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
23	425m NE	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
24	441m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
25	457m SW	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
27	463m W	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
28	466m NE	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
29	480m SW	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
32	494m N	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
33	495m SW	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
34	499m S	PF-SDST	PENISTONE FLAGS - 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	9

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 100 >**

ID	Location	Category	Description
4	65m SE	ROCK	Coal seam, inferred
10	312m E	FAULT	Fault, inferred
12	315m E	ROCK	Coal seam, inferred
17	363m E	FAULT	Fault, inferred
19	368m E	FAULT	Fault, inferred
26	457m SW	FAULT	Fault, inferred
30	480m SW	ROCK	Coal seam, inferred
31	485m NE	ROCK	Coal seam, inferred
35	499m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

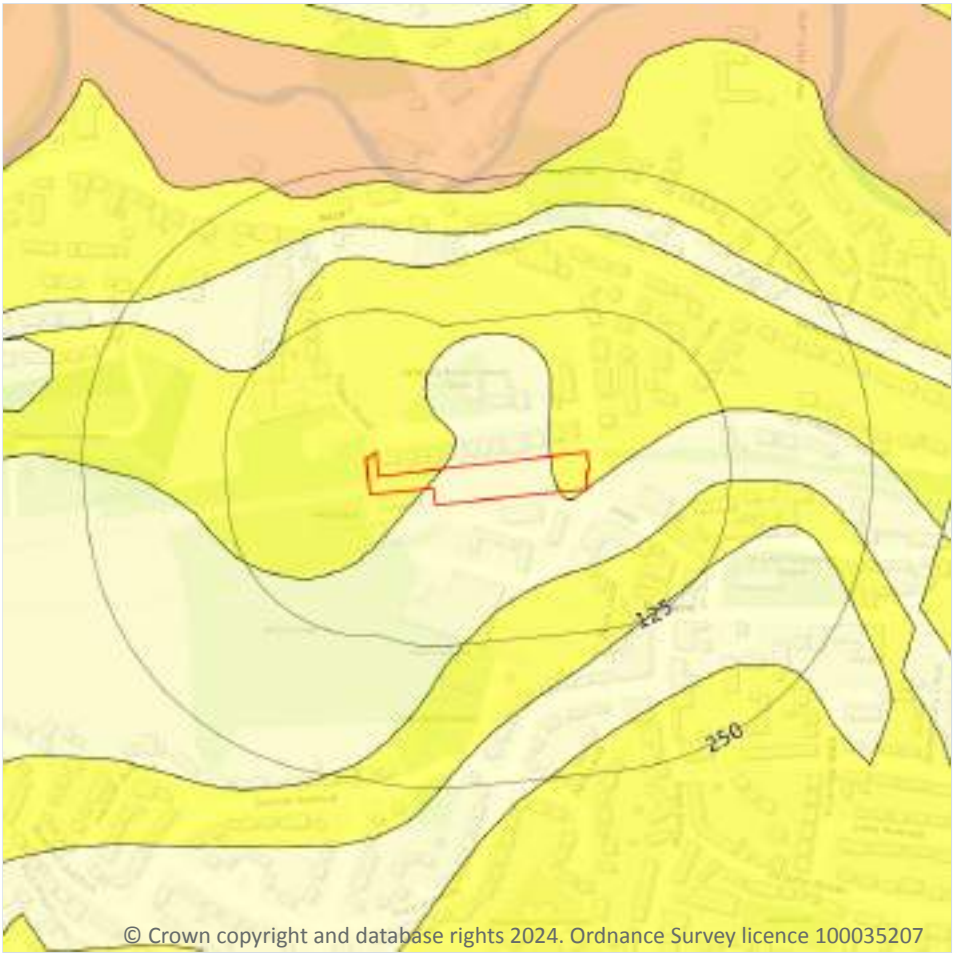
16.1 BGS Boreholes

Records within 250m	0

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

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

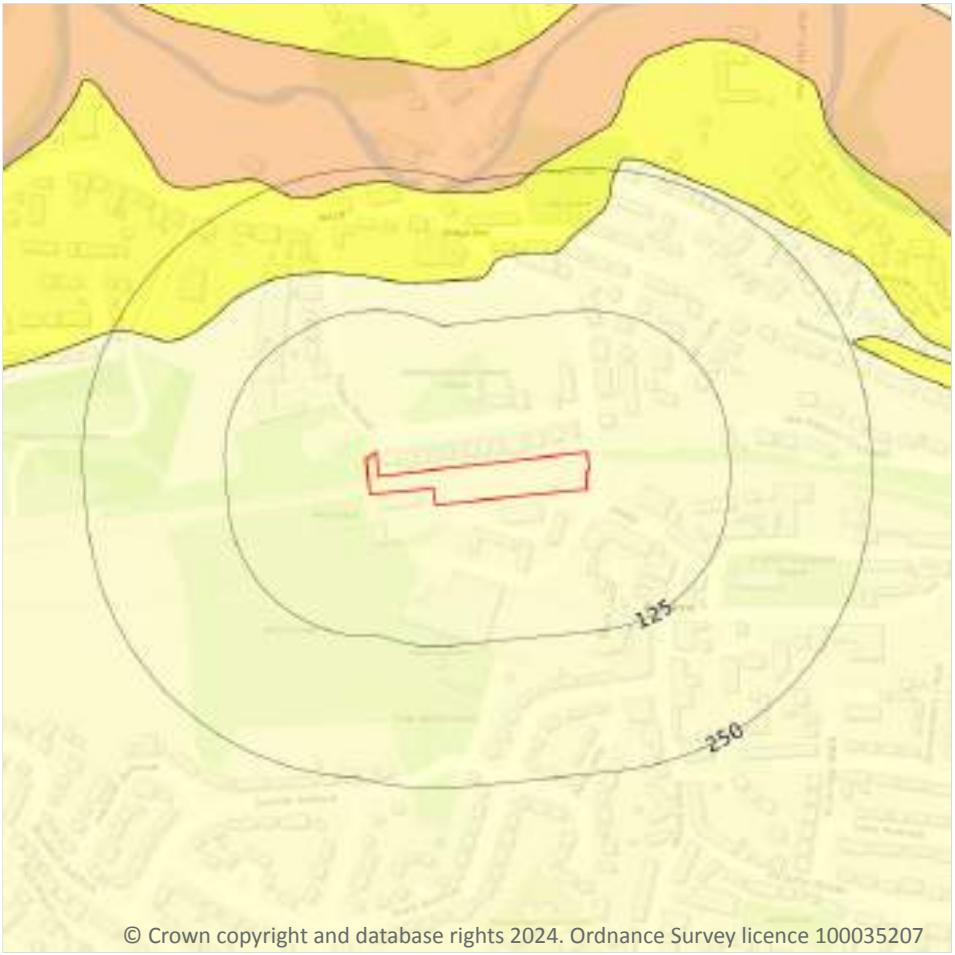
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 104 >**

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	1

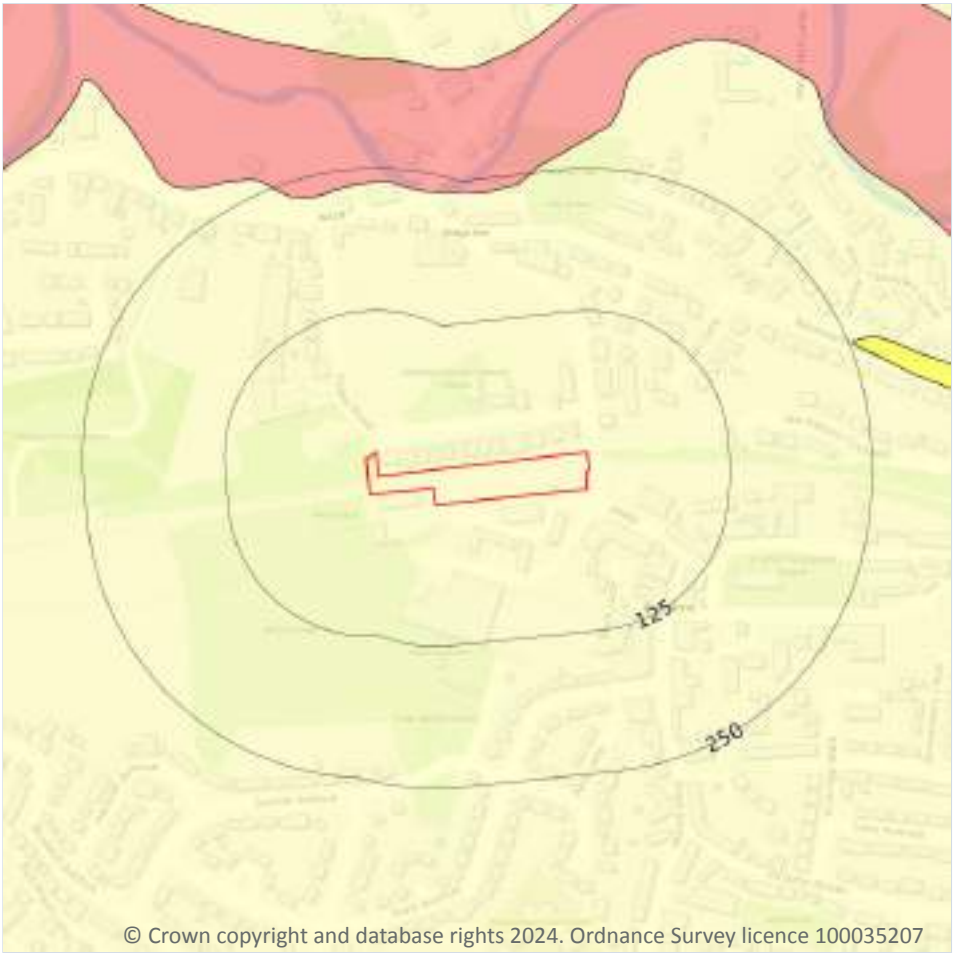
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 105 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

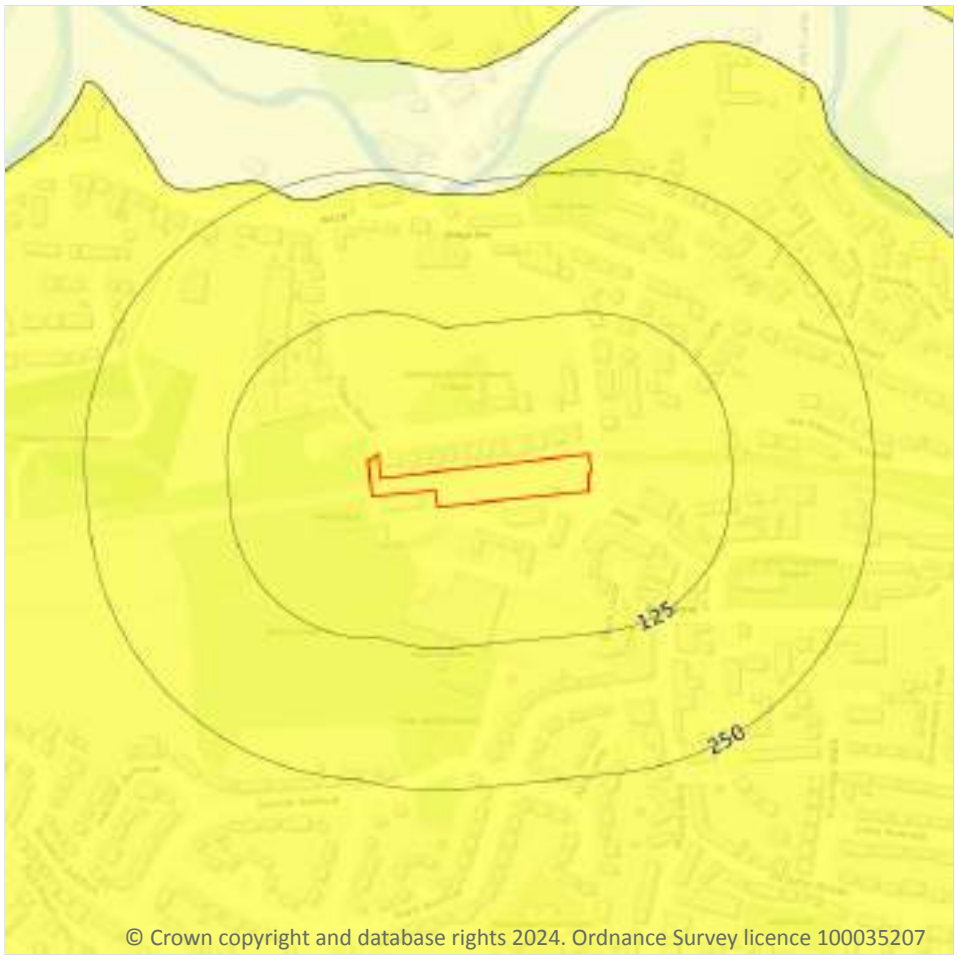
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 106 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

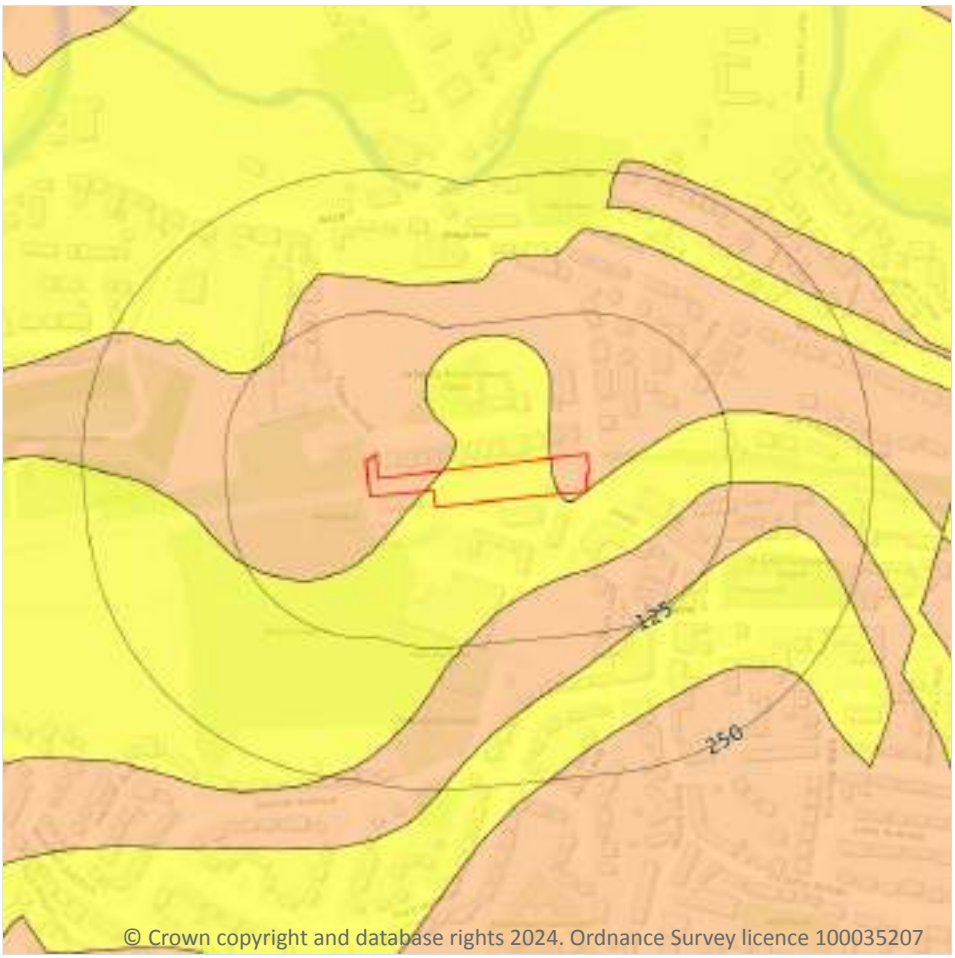
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 107 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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.

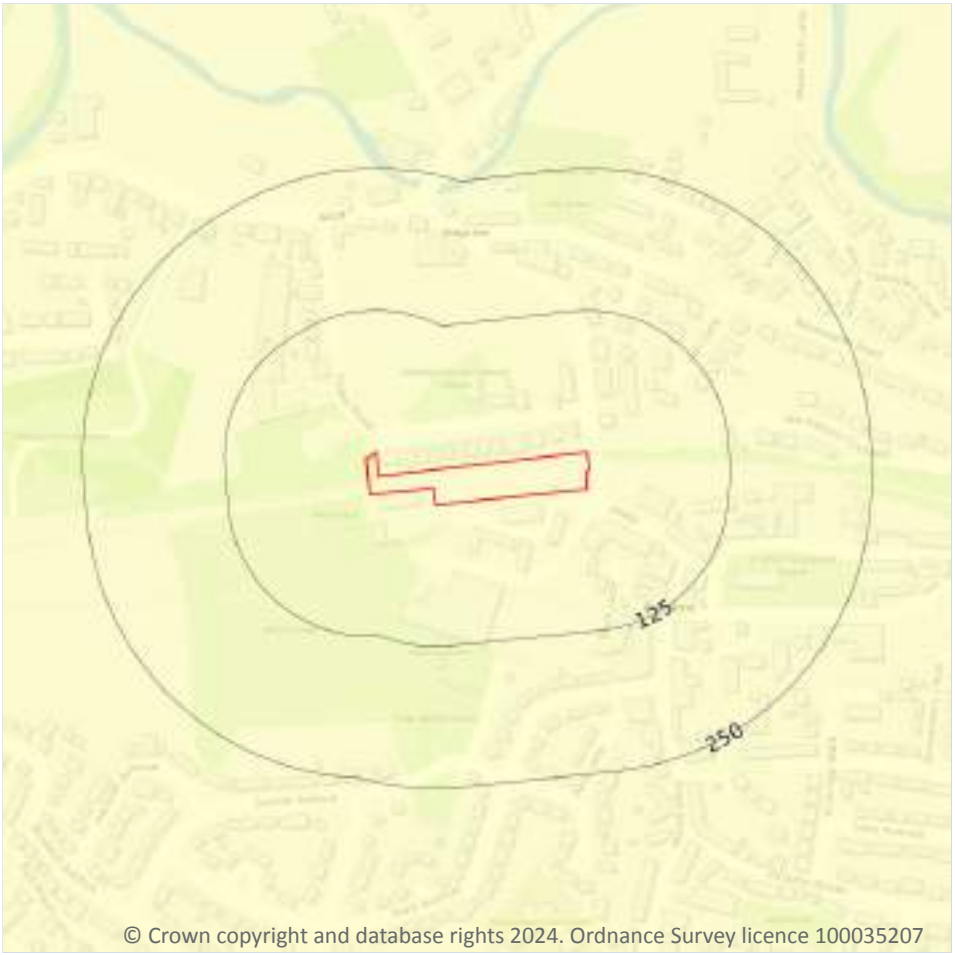
Features are displayed on the Natural ground subsidence - Landslides map on **page 108 >**

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



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

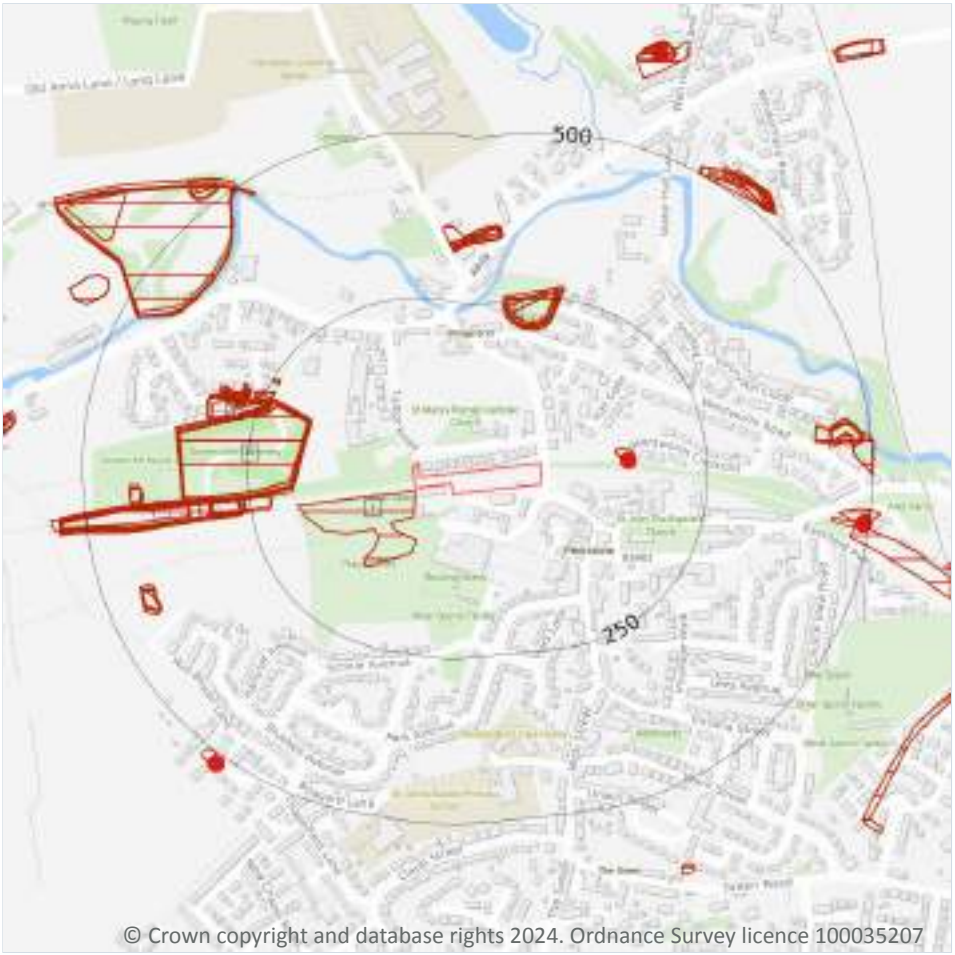
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 110 >**

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	2

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 112 >**

ID	Location	Details	Description
A	132m E	Name: Peniston Address: PENISTONE, South Yorkshire Commodity: Sandstone 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
K	492m E	Name: Signal Box Address: PENISTONE, South Yorkshire Commodity: Sandstone 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	**28**

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 112 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	5m W	Refuse Heaps	1987	1:10000
A	114m E	Sandstone Quarry	1850	1:10560
B	166m W	Cemetery	1891	1:10560
B	166m W	Cemetery	1948	1:10560
B	166m W	Cemetery	1903	1:10560
B	169m W	Cemetery	1938	1:10560
B	169m W	Cemetery	1929	1:10560
B	171m W	Cemetery	1987	1:10000
B	171m W	Cemetery	1951	1:10560
B	171m W	Cemetery	1967	1:10560
C	202m N	Unspecified Ground Workings	1929	1:10560
C	203m N	Unspecified Pit	1948	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
C	203m N	Unspecified Pit	1903	1:10560
C	207m N	Unspecified Pit	1938	1:10560
C	207m N	Unspecified Pit	1938	1:10560
C	208m N	Unspecified Pit	1987	1:10000
C	208m N	Unspecified Pit	1967	1:10560
C	213m N	Unspecified Pit	1951	1:10560
D	218m W	Cuttings	1850	1:10560
D	220m W	Cuttings	1891	1:10560
E	233m W	Unspecified Ground Workings	1929	1:10560
E	235m W	Unspecified Pit	1938	1:10560
E	235m W	Unspecified Pit	1938	1:10560
E	235m W	Pond	1891	1:10560
E	236m W	Pond	1903	1:10560
E	237m W	Unspecified Pit	1948	1:10560
E	238m NW	Mortuary	1938	1:10560
E	240m NW	Mortuary	1948	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	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.

19.5 National karst database

Records within 500m	0

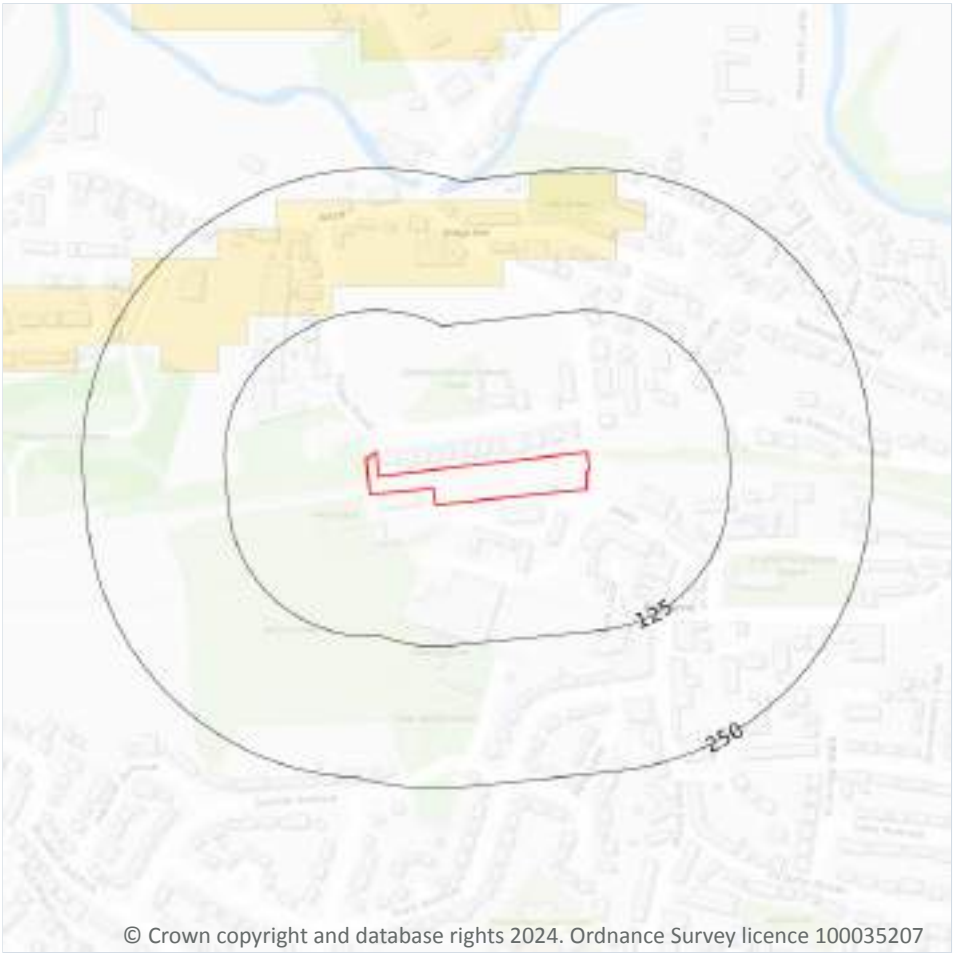
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 120 >**

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	4

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
1m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

Site Outline
Search buffers in metres (m)
Crossrail 1 Stations
Crossrail 1 Route
Crossrail 2 Stations
Crossrail 2 Route
Crossrail 2 Worksites
Crossrail 2 Safeguarding
Crossrail 2 Headhouses
Railway stations
Active railways
Active tunnels
Abandoned railways
Historic railways
Historic tunnels
Underground stations
Underground Lines
Royal Mail tunnels
HS2 optimised route
HS2 Stations
HS2 Depots
HS2 Surface Safeguarding
HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	19

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

Features are displayed on the Railway infrastructure and projects map on **page 124 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1983**	**2500**
On site	**Railway Sidings**	**1959**	**2500**
On site	**Railway Sidings**	**1960**	**2500**
On site	**Railway Sidings**	**1968**	**2500**
On site	**Railway Sidings**	**1985**	**2500**
On site	**Railway Sidings**	**1893**	**2500**
On site	**Railway Sidings**	**1948**	**10560**
On site	**Railway Sidings**	**1903**	**10560**
On site	**Railway Sidings**	**1967**	**10560**
On site	**Railway Sidings**	**1938**	**10560**
On site	**Railway Sidings**	**1929**	**10560**
On site	**Railway Sidings**	**1850**	**10560**
On site	**Railway Sidings**	**1951**	**10560**
189m W	Railway Sidings	1985	2500
190m W	Railway Sidings	1960	2500
190m W	Railway Sidings	1968	2500
196m W	Railway Sidings	1960	2500

Location	Land Use	Year of mapping	Mapping scale
196m W	Railway Sidings	1968	2500
196m W	Railway Sidings	1985	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	2

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 124 >**

Location	Description
On site	**Abandoned**
12m E	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 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.

22.10 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

Rogers Geotechnical Services Ltd

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

Job No:

C3669/24/E/5578

Site:

Stottercliffe Road,
Penistone, Sheffield
South Yorkshire, S63 6EB.

Client:

Fairbank Investments Ltd.

ground investigation | drilling & excavation | insitu testing
laboratory testing & gas monitoring | engineering consultancy
surveying & flood risk assessments | training, CPD & expert witness
... delivered using our own drilling rigs / crews / soils lab / engineers

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Appendix 5

Consultants Mining Report

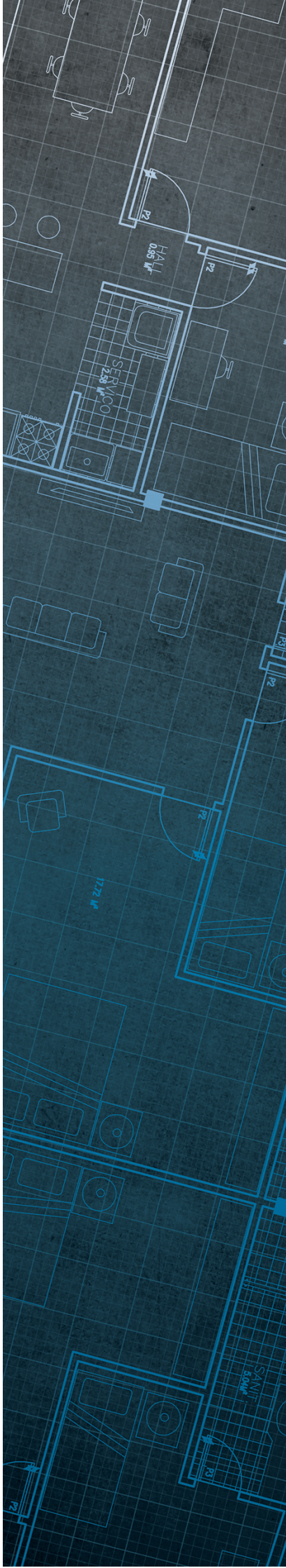
The Coal Authority

Consultants

Coal Mining Report

Stottercliffe Road
Penistone
Barnsley
Barnsley
S36 6EB

Date of enquiry:	**14 August 2024**
Date enquiry received:	**14 August 2024**
Issue date:	**14 August 2024**
Our reference:	**51003443951001**
Your reference:	**C/3669/23/E/5578**



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

Stottercliffe Road
Penistone
Barnsley
Barnsley
S36 6EB

Approximate position of property

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

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
None available.

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.

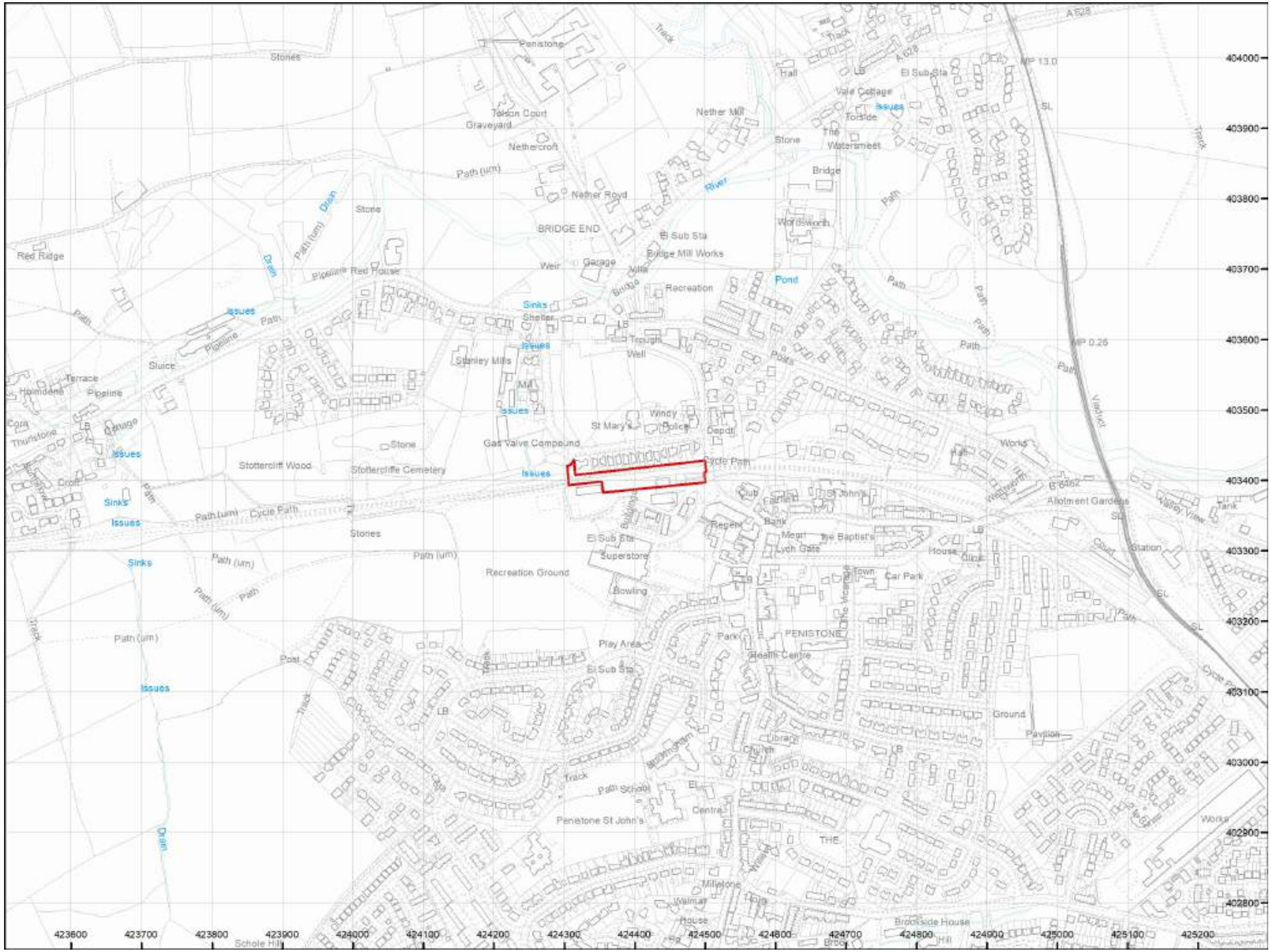
The Coal Authority

Summary of findings

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



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